

AMERICAN CRANES & TRANSPORT

# ACT & SOURCEBOOK 2024

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A KHL Group Publication

- North American Crane Guide
- Manufacturers' and Services Directory
- Specialized Transport Manufacturers' Directory
- **ACT &** Top Lists
- Events Diary



Official domestic  
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## In the know

Where do you go if you need access to all four of our annual *American Cranes & Transport* top lists? Where do you find our annual SC&RA

Job of the Year Special Section, which presents text and photos about the winning jobs and an overview of all the entries?

Where do you find SC&RA's Product Catalog, which features publications, training guides and manuals, checklists and other important safety information? Where do you find the only comprehensive North American Crane Guide, which features the current product line for every major manufacturer of cranes, including mobile cranes, tower cranes, articulating cranes, rubber tired gantries and even industrial cranes? Where can you find a list of every major manufacturer of specialized trailers and transport systems?

You can probably search online to find all of these things, but the *ACT Sourcebook* has them all in one handy package. Whether you access the digital issue or a paper copy, the *ACT Sourcebook* has been the resource for the crane, rigging and specialized transportation sector for 15 years.

Plus, the *ACT Sourcebook* features so much more. It includes the Manufacturer's and Services Directory, a veritable *Yellow Pages* for the industry. SC&RA and NCCCO provide important information about their organizations' program of work, and valuable safety and risk management topics are addressed by NBIS and National Interstate.

While the *ACT Sourcebook* may be an old-fashioned concept, it's still one that is tried and true. If you want to be in the know about our industry, the *ACT Sourcebook* is the place to start. Let me know if we can send you a copy.

## D. ANN SLAYTON SHIFFLER

## Editor

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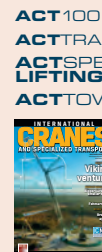
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## Publisher's note/disclaimer

The *ACT Sourcebook* was compiled either by information obtained from an e-mailed survey or by using KHL's own custom developed on-line live database software to ensure that the information contained in these pages is as complete and accurate as possible. In some cases where equipment specifications were not updated, we relied on website, product brochures and other information in our KHL Group Cranes database. Data was updated in November/December 2023. *American Cranes & Transport*, KHL Group and the editors accept no responsibility for errors or omissions, missing information or incomplete information. The data contained in the Crane Guide is meant to be a purchasing or information guide only, not suitable for crane operators to use when operating a crane. Should you have equipment that is not listed in the tables please contact Editor D. Ann Shiffler, to assure you gain access to the on-line updating system or receive a survey during the next updating cycle. This will ensure that your equipment is listed in the next edition, which will be compiled at the end of 2024.



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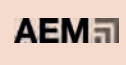
# What's in the Sourcebook?



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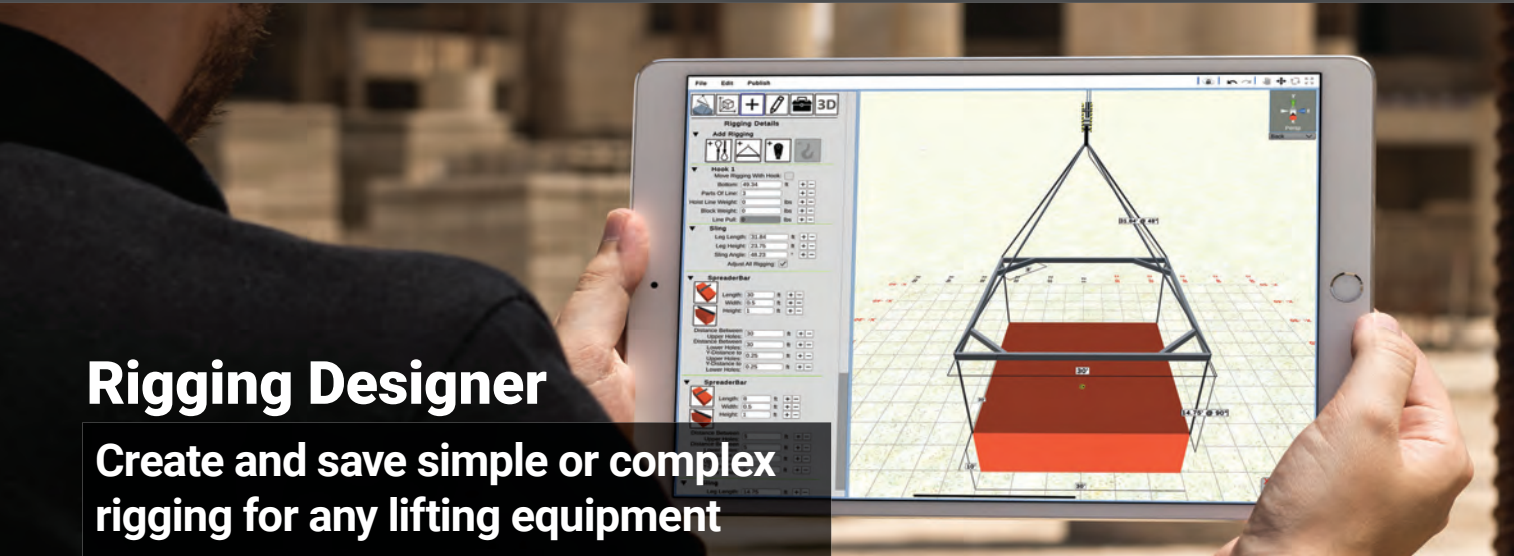
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## EVENTS

- Construction Sustainability Summit
- Construction Technology Summit
- Cranes and Transport Middle East
- CT<sup>2</sup> Hydrogen Summit
- D&GTWW Summit
- Diesel Progress Summit
- European Rental Awards
- International Awards for Powered Access (IAPAs)
- International Rental Conference Asia
- International Tower Cranes Conference
- Power Progress Summit
- OHR Conference
- Off-Highway Global Briefing
- Tower Cranes North America
- World Crane and Transport Summit
- World Demolition Summit

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## EVENT NEWSLETTERS

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- Conexpo Daily & Preview
- Diesel Progress Summit Newsletter
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## EQUIPMENT GUIDES

- Access Sourcing Guide
- American Cranes & Transport Sourcebook
- **COMPRESSORTECH<sup>2</sup>** Sourcing Supplement
- Construction Sourcing Guide
- Crane Sourcing Guide
- Demolition Sourcing Guide
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# INTO THE FUTURE

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The SC&RF (Specialized Carriers & Rigging Foundation) is focusing in on workforce development efforts across the board.



In 2024, specific task forces within the Foundation will identify the most common career pathways in the industry including crane operator, rigger, OS/OW driver, permitting planner, project manager and tower crane technician.

# Piece of the puzzle

In 2024, the SC&RF has shifted gears to focus on raising awareness for the industry, developing a Workforce Ambassadors Program and increasing a nation-wide presence.

“After several years of evaluating Lift & Move events, and reviewing surveys and feedback from past hosts, we have identified the need to broaden our scope and have a larger impact on other areas of workforce development,” said Jackie Roskos, director of the SC&RF. “It’s only a piece of a puzzle. We are putting more focus on building out and developing ways to support members who are engaged in their community and increasing our national presence with key audiences such as high school educators and school counselors.”

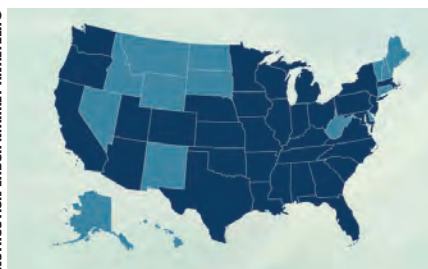
## Raising awareness

The Foundation has been hard at work supporting SC&RA member companies in their efforts to raise industry awareness. The Workforce Ambassador Program

recognizes companies involved in raising industry awareness in their local communities. Lift & Move events are also still supported and encouraged. To learn more about hosting a Lift & Move event at your company contact the SC&RF.

“A national organization often cannot address concerns at a community level,” added Roskos. “It comes down to the responsibility of members. The Workforce Ambassador Program was created to support them, and to recognize them.”

MAP DATA: CONSTRUCTION LABOR MARKET ANALYZER®



This map indicates demand for mobile crane operators, with dark blue designating the highest demand. Learn more at [www.myCLMA.com](http://www.myCLMA.com).

## Resource creation

In 2024, specific task forces within the Foundation will identify the most common career pathways in the industry including crane operator, rigger, OS/OW driver, permitting planner, project manager and tower crane technician. This information can be used in recruiting, working with schools and internally to establish benchmarks.

Another piece of the puzzle is the research component. Data for the Foundation’s Workforce Study is collected anonymously and is published to benefit industry advocacy efforts, member recruiting programs and to enhance and grow the SC&RF’s ongoing workforce development initiatives. Through the input of members, the Foundation is able to analyze the impact and trickle-down effect of the labor shortage, greatly impacting the U.S. economy.

## National presence

This year, SC&RF staff and committees will attend or exhibit at conferences to raise industry awareness and promote career opportunities. Tentative attendance is planned at SkillsUSA, Future Farmers of America, and the Association of School Counselors of America.

## Join the SC&RF Workforce Ambassador Program

There are a variety of workforce community engagement activities for your company to participate in:

- Classroom presentations
- Career Fairs
- Attend or serve on community workforce board/council
- Social sharing about

- the industry
- Participate in tuition reimbursement programs
- Partner with educators to meet classroom needs
- Host family days/community days
- Host visits at your facility
- Participate in events, such as Touch a Truck, Construction Days or

- other similar events
- Represent Lift & Move at industry events (Skills USA, ConstructionDay, etc)
- Participate in intern/young employee VLOG series
- Partner in an Internship or apprenticeship program



## Strategic partners



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By **D.ANN SHIFFLER** and **HANNAH SUNDERMEYER**

# JOB OF THE YEAR 2023

## World class



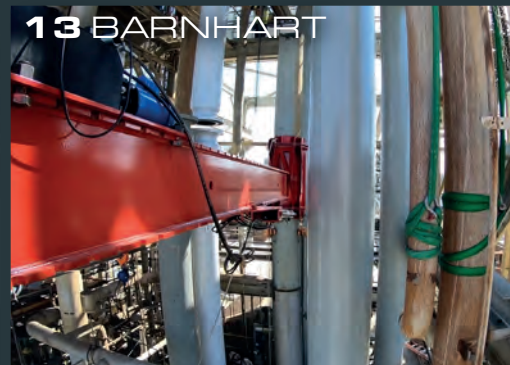
**16 BARNHART**



**15 ROLL GROUP**



**21 FAGIOLI**



**13 BARNHART**



**20 TRADELOSSA**



**18 PRECISION SPECIALIZED**



**12 BERARD TRANSPORTATION**




**19 EMMERT INTERNATIONAL**



RIGGING UNDER \$150,000

## BERARD TRANSPORTATION



Removing and replacing a damaged overpass section required quick thinking, rapid action and a deep commitment to safety by the Berard Transportation team.

## All in a weekend

TECHS AND SPECS

**SECTOR:** HIGHWAY/TRANSPORTATION

**WEIGHT/DIMENSIONS:** 215 short tons, 95 feet 9 inches long, 17 feet 8 inches wide, 8 feet 1 inch tall.

**RIGGING CHALLENGES:** The bridge spans had to travel beneath two overpasses that had a 17-foot 6-inch clearance. The damaged bridge was jacked down onto the transporter decks, and the bridge slope had to be lowered for suitable clearance. There was a two-inch clearance at the Cotton Gin Road overpass. The entire operation of removing the damaged span and reinstalling the new span had to be completed between 9 p.m. Friday and 5 a.m. Monday.

A light pole just north of the bridge had to remain in place, so the maneuverability of the SPMT system was critical. The bridge span had a 2-foot slope, and two climbing jacks were positioned on the high end of the span on a specially fabricated support point to lower the bridge to level. The stand set-up allowed for the rest of the jack cribbing. The maximum cribbing height with 100-ton capacity jacks is 5 feet, with stands positioned to reset jacks.

A steel plate was pre-positioned on the side of the interstate between overpasses to rotate the high side to the west lane edge.

**EQUIPMENT:** Two 6-axle line Goldhofer PST-SLE transporters, ten 100-ton climbing jacks, one Jahns Structure Jacking Systems unified jacking system, a Berard fabricated 77-foot-long girder beam, other various spanner beams, stands and cribbing materials.

**PROJECT DURATION:** Five days, with the bridge replacement occurring over a weekend when traffic was shut down.

**D**amaged by an oversized load in 2020, the overpass at Sugar House Road over Interstate 49 in Alexandria, LA was scheduled to be repaired over a weekend in March 2022. Louisiana's Department of Transportation determined that the SPMT replacement method would be the best way forward.

The damaged overpass was located about a third of a mile from the contractor's yard, so the damaged section and the new section could be moved via SPMT on a path prepared with roadside fill and matting, performed by the contractor.

"For efficiency, all lifting equipment was placed atop SPMT decks," said Brett Berard. "We used one of our 77-foot girder beams, modified for the project."


Eight of Berard's climbing jacks were

lifted atop the SPMTs and were controlled by a JSJS unified jacking system.

"We decided that a project of this nature should have our most experienced crew, thus we elected to work 16-hour day shifts only," said Berard.

The Berard crew started on Saturday at 4:30 a.m. with the goal to have the damaged section removed and the new section loaded to SPMTs by the end of the day, which we accomplished by 6:30 p.m. They started at 4:30 a.m. on Sunday morning, and the new bridge was fully installed by 3 p.m., ahead of schedule.

At the peak time of the operation Berard had 12 crew members on the job, and there were more than 30 people onsite from various organizations associated with the project. ■



The entire operation of removing the damaged span and reinstalling the new span had to be completed between 9 p.m. Friday and 5 a.m. Monday. Berard's team finished the job safely and early.

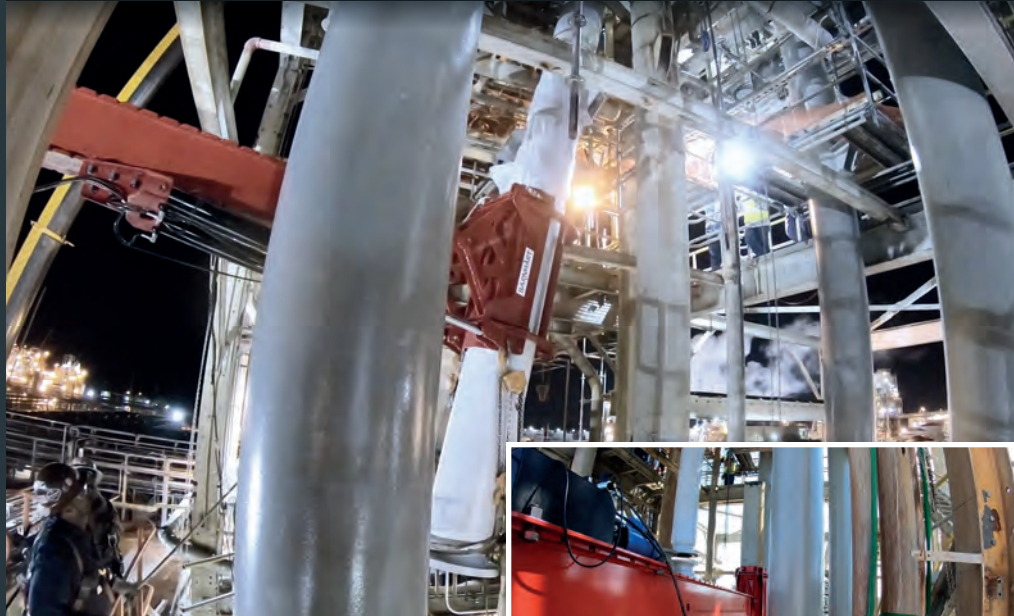


**RIGGING** \$150,000 TO \$750,000**BARNHART****SECTOR:** CHEMICAL MANUFACTURING**WEIGHT/DIMENSIONS:** 12,000 pounds, 50-foot long legs.

**RIGGING CHALLENGES:** There were four major constraints of this project. The jobsite was congested with multiple contractors performing activities in the vicinity, so managing the available area was critical to the project's success. This job had never been attempted, so there were a lot of unknowns in method and schedule. The legs are surrounded by structures on all sides, and there was not an easy or direct way to pull them out without removing multiple obstructions. None of the inner reactor legs directly under the reactor had been replaced in 50 years. The plant management team was concerned that there would not be enough time in the outage to complete the project. Saving every hour possible was critical, and reducing the schedule for this project to the point where it would no longer be the critical path was considered impossible.

**EQUIPMENT:** 265-ton hydraulic crane, moving counterweight cantilever system and a manipulator attachment for cantilever beam designed and fabricated specifically for project.

**PROJECT DURATION:** 26 days, 14-day critical outage not including pre-work and post-work.



**Barnhart utilized a moving counterweight cantilever beam to remove and replace 12 reactor legs.**



# A leg up

With a reputation for taking on challenging projects, Barnhart worked against the clock removing and replacing 12 inner and outer legs located under a reactor at a chemical plant.

**B**arnhart was tasked with removing and replacing a 12,000-pound clogged 50-foot length inner reactor leg at a chemical plant in April 2022. The plant had purchased new legs that could be installed as a single 50-foot piece or as two separate 25-foot sections bolted together once in the structure. The existing leg was a 50-foot-long piece. To minimize the outage window and avoid the need to remove and replace the upper reactor, the plant had requested that Barnhart explore all options.

The team's solution was to utilize a moving counterweight cantilever beam, which was engineered to reach under the structure and connect to the reactor leg with a welded lug pinned off to their

system. Barnhart would then choke the upper flange of the leg and use a chain-fall to tilt it to the correct angle so that it could clear any obstructions as it was lifted upward and out. The customer planned to flush the legs with acid during the upcoming outage, but this method failed to clear the catalyst jam, resulting in leaks developing in all 12 reactor legs. Plant management decided to replace all 12 reactor legs during the next outage, which was the largest and most complex outage ever attempted at the plant.

During the planning phase, the contractors pointed out the difficulty of welding a lug to the legs during the outage and how much time it would take, considering that these legs were classified as ASME pressure vessels with

specific welding criteria and inspections required. In response, Barnhart assigned an additional research and development engineer to investigate an alternative method of connecting the cantilever beam to the reactor legs while the project engineer continued his work to plan the other portions of the project.

"Utilizing this alternative method, we reduced their schedule from 14 days to seven days, taking our project out of the critical path for the outage – which was extremely valuable to the site's project management team," said Kyle Adams, PE, Barnhart.

To hold the vertical load, the Barnhart team utilized two chain-falls and straps, while two hydraulic cylinders allowed for rotation of the reactor leg from vertical to horizontal. The tool was equipped with an independent motor and pump, running off the on-board generator, which allowed for remote operation of the reactor leg tilt mechanism. The customer was highly satisfied with this method and issued a purchase order for immediate development of the tool. Barnhart had a two-month time frame to complete the engineering, order required materials, fabricate, load test, paint and ship the tool to the site to be ready for the outage. ■



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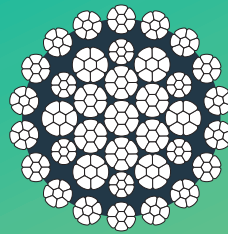
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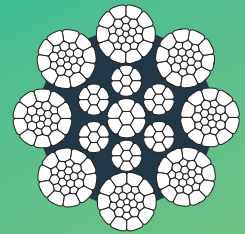


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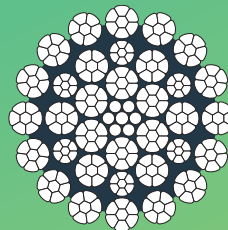
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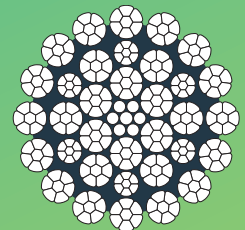
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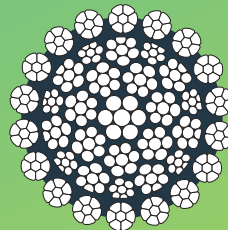
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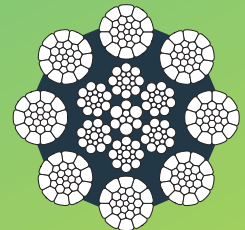
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**RIGGING** \$750,000 TO \$2 MILLION**ROLL GROUP**

# Historic railroad replacement

**G**eneral Contractor Russell Marine chose Roll Group to provide the critical heavy lifting and transport services to perform the superstructure changeout on the Union Pacific Railroad Bridge at the Trinity River in Liberty, TX.

The bridge was designed in two sections – a Pratt Swing Truss on the west end constructed in 1904 and a Parker Thru Truss on the east end constructed in 1919.

“Several options were evaluated to accomplish the changeout within the safe operating capacity of Roll Group’s Liebherr LR11350 crane while meeting project considerations of budget, schedule and minimizing operational risk,” said Roll Group’s Bill Petit.

The best and safest option was to build two crane platforms – one at each river side.

Operation at the Pratt Swing Truss section (west end) allowed for booming out the crane and keeping the super lift tray on

land. Operation at the Parker Thru Truss section (east end) needed four platforms to be built in the river to support the super lift tray between lifts.

Replacing an old railroad bridge required precise planning and the notable expertise of Roll Group.



Roll Group’s Liebherr LR11350 was the centerpiece of the bridge changeout.

## SECTOR: INFRASTRUCTURE/BRIDGE

**WEIGHT/DIMENSIONS:** Because of the age of the bridge, its actual weight was unknown. In November 2021, the original bridge sections were weighed using a jacking system with a power pack at each side of the river. The west end section was heavier than expected and was outside the chosen crane’s safe operating capacity. Rather than spec a larger capacity, more expensive crane, and to keep the project on track, the Roll Group team decided to cut the west end truss into two pieces. The old west side truss on the land side weighed 297.3 tons and measured 114 feet by 19 feet 5 inches by 36 feet. The old west side truss section on the river side weighed 294.7 tons and measured 114 feet by 19 feet 5 inches by 36 feet. The new Through Plate Girder (TPG) replacement section on the west end weighed 339 tons and measured 151 feet by 22 feet by 12.6 feet. The temporary jumper weighed 45.4 tons and was 55.9 feet long. The old east side truss section weighed 467.2 tons and measured 225 feet by 19 feet 5 inches by 48 feet 5 inches. The TPG replacement center section weighed 362.9 tons and measured 153 feet by 22 feet by 12.6 feet. The TPG replacement east section weighed 364 tons and measured 151 feet by 22 feet by 12.6 feet.

**RIGGING CHALLENGES:** Executed in two phases within a 24-hour window to minimize train schedule disruptions, lift planning, engineering and execution

had to be safe, precise and efficient. Communication between the teams was critical. In Phase I, four lifts were required. The last train crossed the historic bridge at 6:50 a.m. The old western truss section was divided into two pieces, the land side and the river side. The crane and platform were positioned to be able to lift both pieces. The old trusses were placed on an SPMT and transported to the laydown area. The new TPG west end section was transported from the laydown area to the crane hook. A temporary jumper section was installed to connect the new TPG west section to the old east section, enabling the railroad to resume safe operations. Phase I was completed in 17 hours. Four lifts were also required in Phase II, but it was a more complex operation because the superlift tray had to be relocated over the four designated platforms in the river. First, the temporary jumper section was removed, and then the old east side truss section was removed. The new TPG center section was lifted and installed onto its foundation. Finally, the last piece – the east section – was lifted and installed.

**EQUIPMENT:** Liebherr LR11350 with superlift attachment, service cranes and 40 lines of SPMT plus two spacers with two power pack units.

**PROJECT DURATION:** Lift planning and engineering began in March 2021. The project execution was performed May 12, 2022 (Phase I) and July 7, 2022 (Phase II).



RIGGING OVER \$2 MILLION

BARNHART

# Customized solutions

Barnhart designed and assembled two identical high-capacity shoring towers to support repair work to vertical scrubbers at a coal-burning generation plant.

What began as a short, straightforward message through the Barnhart company website, later evolved into a complex project for one of the last two remaining New Jersey coal-fired plants. An engineering manager at Carney's Point Cogen in Southern New Jersey contacted Barnhart for assistance. The 285 MW plant is operated by NAES Corp. and was seeking rigging support while repairs were made to their two vertical scrubber units on site. The scrubbers, also known as Spray Dryer Absorbers, were at one time considered the best pollution controls available in the country for this type of facility. Upon further discovery during a site walk down, the Barnhart team learned that the internal structural walls of the scrubbers were wearing thin and at risk of collapse. Ultra-sonic testing was used to survey the scrubber housing walls and it was discovered that multiple sections had already lost almost two-thirds of the wall thickness. In order to have manned scaffolding envelope the damaged scrubbers, NAES needed to protect against any collapse for the safety of the welders executing the repairs. The initial customer request no longer had a simple solution. This is where the Barnhart team stepped in.

For the scrubbers to be reinforced, 360-degree scaffolding needed to be installed around the units, wall panels removed and steel plates added to the frame to provide the required strength to reinforce the walls.



Barnhart developed two identical modular lift tower frames to extend up and over the scrubber. On the bridge assembly of the towers, the team installed Barnhart pull up gantries with a web of high-capacity girders and eight wire ropes to connect the underside of the scrubber base ring. The gantries were used to provide the tension to the system. The wire ropes were designed to a custom length and fabricated by I&I Sling. The attachment points to the base ring were designed in collaboration with NAES and fabricated at a local shop.

With all eight legs of the "octopus" connected to the base ring, Barnhart was supporting the full weight of the scrubbers and eliminating the possibility of a blowout. At this time, the immediate area was deemed safe for work and the scaffolding crews installed their platforms. The reinforcement steel plating was already on site and the customer's welding crew could begin reinforcing the walls.

"The plant was turned back online in December while still being supported by our equipment," said Palen Andreozzi, project development, Barnhart Nuclear Service. "The project was a win across the board for all stakeholders and a great example of a truly unique Barnhart solution."

**SECTOR:** POWER GENERATION**WEIGHT/DIMENSIONS:** Two identical scrubber towers, 600,000 pounds each, 40 feet in diameter by 120 feet high.**RIGGING CHALLENGES:** Short design and mobilization windows, working at height with tie-off's during inclement weather from November to February.**EQUIPMENT:** Modular Lift Tower Bents, 1,000-ton pull up gantry system, custom wire ropes to attach to the eight-point pick. All crane support for the assembly/disassembly of the two scrubber MLT towers was provided by Maxim Amquip.**PROJECT DURATION:** Over four months, the project clocked in over 350 engineering man hours, 200 project management hours and 2,500 manhours in the field for the erection and disassembly of the two towers.

Barnhart developed two identical modular lift tower frames to extend up and over the scrubber. On the bridge assembly of the towers, the team installed Barnhart pull up gantries with a web of high-capacity girders and eight wire ropes.





# Engineered for the future, built on experience

## LTM 1110-5.2

The LTM 1110-5.2 with 3 new core features: the crane control system, the driver's cab and the gearbox. The new LICCON3 crane control system comes with large touch displays and is prepared for fleet management and telematics. The ZF TraXon gearbox with DynamicPerform offers wear-free manoeuvring. Plus a modern crane design – the future of the all-terrain series.

[www.liebherr.com](http://www.liebherr.com)

# LIEBHERR

Mobile and crawler cranes





HAULING UNDER 160,000 POUNDS NET

## PRECISION SPECIALIZED

# Precision detail

**S**afely hauling a huge E-house from Burlington, Ontario to Hamilton, Ontario in Canada appeared to be a simple task from afar. But there were a host of issues to address and problems to solve before the team could

The safe delivery of a cumbersome E-house in Canada required painstaking attention to detail.

take to the roadway, according to Precision Specialized President Ed Bernard.

“The shipping area was a field where the piece was manufactured, with an impossible exit to the roadway,” said Bernard. “The amount of prep work to be performed at the site was extreme. Traveling at night always adds additional issues and safety concerns.”

Tree removal and branch trimming, ground excavation, driveway widening, the laydown of crane mats and moving a building turned out to be complicated tasks

required to be performed during a tight timeline from the first call to the delivery date.

Safety was a consideration in every element of the execution of the job. For the heavy haul itself, there were 125 people on the job. In total, the convoy was comprised of more than 60 vehicles.

TECHS AND SPECS

**SECTOR:** POWER/ENERGY

**WEIGHT/DIMENSIONS:** The E-House weight was 140,000 pounds and its dimensions were 72 feet by 21 feet 6 inches by 20 feet. The loaded weight was 247,000 pounds, and the loaded-out dimensions were 109 feet by 21 feet 6 inches by 23 feet 7 inches.

**HAULING CHALLENGES:** The exit from the field over the driveway improvements was a safety concern. Several contractors were assisting with the move and tight coordination was required to assure everyone was communicating and were aware of each step of the operation.

With a loaded height of almost 24 feet, all utility and communication lines would need to be lifted, dropped or relocated. Prep work to the delivery site was labor intensive.

Regulatory authorities determined that the heavy haul could only be conducted during night-time hours, and required two nights of travel over a 31-mile route. Bridge jumping was required over certain structures. The last three miles of the route to the delivery site were covered with a canopy of trees, requiring a contingent of arborists to trim back branches from the roadway. There was a tight timeline from first call to delivery.

**EQUIPMENT:** The main equipment for the heavy haul was a 4-axle Kenworth power unit and Goldhofer STZp9 trailer. The convoy included the one power unit and trailer, two pole cars, two rear escorts, one tillerman, 15 certified superload escorts, six City of Burlington police escorts, eight City of Hamilton police escorts, seven Hydro One bucket trucks, four City of Burlington bucket trucks, seven City of Hamilton bucket trucks, six Bell bucket trucks, six Rogers bucket trucks and four Cogeco bucket trucks.

**PROJECT DURATION:** 14 days of pricing, 17 days of planning and permit applications, 28 days to approve all applications and two nights of travel.



Hauling an E-house in Ontario, Canada provided a host of challenges for Precision Specialized.

“The amount of prep work to be performed at the site was extreme. Traveling at night always adds additional issues and safety concerns.”

**ED BERNARD, President, Precision Specialized**



**HAULING** 160,000 TO 500,000 POUNDS NET**EMMERT INTERNATIONAL**

Emmert International transported a custom rotary drum from Texas to Canada, the first major international super load project for its customer.

Emmert International successfully and safely made the 2,510-mile trip without accidents and no injuries to employees, third parties or the general public.



# Rotary drum conundrum

**E**mmert International was tasked with the transport of a custom fabricated rotary drum from the Port of Houston, TX to a refinery located in Alberta, Canada. This was the first major international super load project for Emmert's customer originating from a manufacturer overseas. The rotary drum measured 82 feet 3 inches long by 13 feet 10 inches wide by 14 feet 3 inches tall and weighed 302,031 pounds. The transporter to haul this with the correct axle loadings was a 12-line Goldhofer THP/CA trailer, with push and pull trucks. The loaded dimensions were 198

feet 9 inches long by 16 feet wide by 17 feet 10 inches high.

Once awarded, Emmert worked diligently alongside the customer during the planning and permitting phases, starting months prior to the ship's arrival in Houston, TX. Emmert International's route traveled through Texas, Oklahoma, Kansas, Nebraska, South Dakota, Wyoming, Montana and Alberta, Canada. The route had a total of 2,510 miles with over 900 miles of the route in Texas alone. Emmert assigned two drivers, one push and one pull, one superintendent, one trailer operator

and two ground personnel. Emmert International also partnered with multiple third-party entities, such as local bucket trucks, escorts and over 50 utilities throughout the entire route to safely guide the transporter by providing traffic control, raising power lines and removing and reinstalling any obstructions or impediments.

"During all phases of the project, Emmert received many accolades from our customer for our safety, planning, communication and overall professionalism," said Terry Emmert, president of Emmert International. ■

## SECTOR: REFINERY

**WEIGHT/DIMENSIONS:** The loaded weight was 548,000 pounds. The loaded dimensions were 198 feet 9 inches long by 16 feet wide and 17 feet 10 inches tall.

**HAULING CHALLENGES:** Throughout the project and route, Emmert International encountered many adverse conditions. Heavy snowfall, rain and blizzard conditions caused road closures with a few minor delays due to travel restrictions. Due to supply chain issues, delays from the overseas manufacturer, weather related occurrences with the inbound ship and U.S. port congestion added to cargo delay.

Approval was needed from all states and counties for travel, along with utilities and police. In conjunction to this, Emmert began the process of assigning crew members, verifying passports for cross-border travel and working with third parties in the U.S. and Canada to verify routes for each state and province. After loading and securement was complete, Emmert realized and quickly communicated to the customer, that the customer had a customs clearance paperwork-related issue.

As Emmert continued the journey through Texas, Oklahoma and into Kansas, the team was forced to stop and standby in Garden City due

to travel restrictions. Once a safe shutdown area was identified, the Emmert crew was demobilized. When the restrictions were lifted, Emmert re-mobilized the crew along with the original support team.

As the Emmert convoy approached the Canadian border, they decided to cease transport operations for the safety of personnel and the public. A 10-mile stretch of road was covered in multiple layers of ice and packed snow. The Emmert transport team began the process of working with state and local officials to provide assistance in clearing the ice and snow from the roadway for safe travel.

Once it was safe to cross the border, they received notification from Canadian officials that all cross-border commercial traffic was being suspended. Canadian Port of Entry personnel were diverted to other locations, which in turn, left the Canadian Port of Entry scale unmanned. Upon return of the Canadian officials, the load was inspected and weighed and Emmert received the validated permit and was cleared to proceed to the final destination in Alberta, Canada.

**EQUIPMENT:** The project utilized two Kenworth Prime Movers and a 12-line Goldhofer THP/CA trailer.

**PROJECT DURATION:** 2,762 man hours



# Milestone project

Obstacle after obstacle, Tradelossa's team proved it could safely and professionally navigate the heavy haul of a huge compressor.

**T**radelossa was contracted to haul a WMR Compressor Suction KO Drum (as well as multiple heavy haul components) from the Port of Ensenada to the storage area of the Energia Costa Azul (ECA) LNG plant in El Sauzal, Baja California, Mexico.

"Project ECA became a milestone for Tradelossa," said Carlos Matthey de los Santos, managing director at Tradelossa. "It surpassed the limits of what a traditional hauling project can be and brought all kinds of customized services and civil works to our clients."

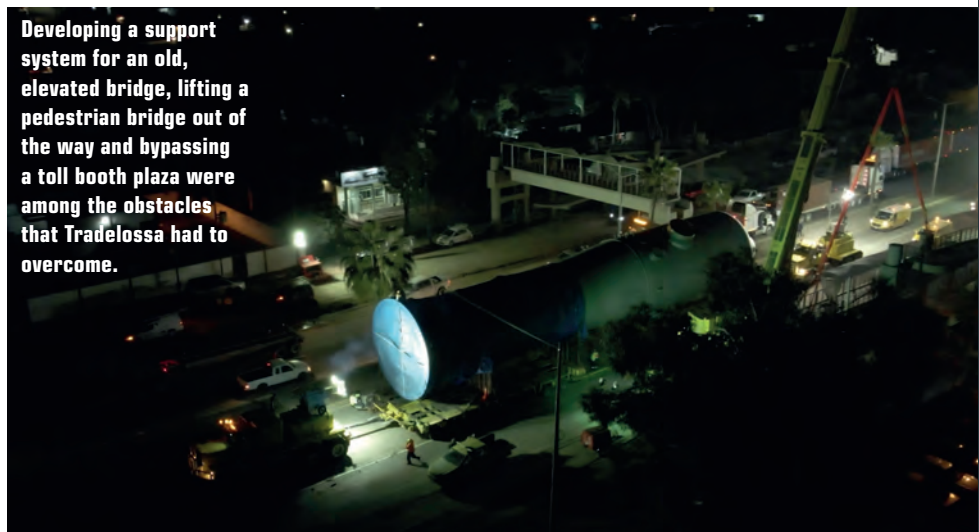
From September 2021 to May 2022, Tradelossa's team developed a plan that was safe and met client's standards. Route surveys took into account traffic jams, bridges, powerlines, toll booths, traffic lights and roadway construction. Tradelossa's project plan set contingencies for every challenge. They worked with state and local officials on every inch of the route to make sure there were no surprises. Due to the compressor's dimensions, the heavy amount of civil

work, road modifications and how heavy populated the city of Ensenada is, the haul had to take place after midnight, to ensure both the locals and the compressor's safety.

The hauling configuration proposed was a parallel combination of 8 axles plus low deck and 8 axles hydraulic

vehicular configuration, with each axle having 8 tire lines designed to hold and redistribute the cargo's weight. This gave the cargo a wider, longer and more stable configuration to maintain the balance of the cargo's gravitational center. Sixteen axles with a low deck, equipped with not eight but sixteen tire lines per axle, was ideal to redistribute the compressor's weight, assuring its safety during the haul. The use of a front saddle, two middle saddles and one back saddle provided additional support and safety for the cargo and the crew. ■

**Developing a support system for an old, elevated bridge, lifting a pedestrian bridge out of the way and bypassing a toll booth plaza were among the obstacles that Tradelossa had to overcome.**



**SECTOR:** OIL AND GAS

**WEIGHT/DIMENSIONS:** The WMR Compressor Section KO Drum weighed 765,004 pounds. It was 117.126 feet long, 24.048 feet wide and 26.541 feet tall.

**HAULING CHALLENGES:** Tradelossa conducted meetings with port, local authorities and private and police escorts. Escort cars worked with police escorts and the heavy haul team to provide an extra level of safety.

Several obstacles required civil works, including the extension of the port's gateway and the lifting of a pedestrian bridge to allow the cargo to pass underneath. Permits were required for civil work, clearance and utility and transportation.

As well, the Great Bridge of Mananitas had to be structurally reinforced. A 118-foot bridge with three spans, the roadway is located 82 feet above ground. Further, the bridge could not be closed during the refurbishment work, since it is the main connection axis between Tijuana and Ensenada. Tradelossa's solution was to install a support system using a shear carbon fiber and external pre-stressing system

based on post-tensioned carbon fiber. Each girder was equipped with four systems and reinforced with a tension force of 880 kN, increasing the capacity of the bridge by 25 percent. A project-specific anchorage was designed to allow all the four systems to be anchored to it at once. These were the first anchorage operations of their kind in Latin America.

To gain access to the project site, the cargo had to descent a 9 percent slope of 1.24 miles.

Tradelossa's team used three Prime Movers at the front to lead and two trucks at the back to resist the slope, capable to hauling up to 700 tons as the compressor was carried safely down the slope.

**EQUIPMENT:** The project utilized a Hydraulic Vehicular Configuration with an 8-axle low steel deck and an 8-axle 1+1 double configuration, five Prime Movers, and some 78 sets of specialized chain equipment for lashing – 56 chains for longitudinal forces and 22 chains for lateral forces to secure the cargo to the trailer.

**PROJECT DURATION:** The project required 2,560 man hours, 1,440 planning hours and 1,120 hours for the final execution and delivery. The route was a 22.36-mile journey within the state of Baja, California,



## HAULING MOVING FAGIOLI

TECHS AND SPECS

**SECTOR:** TRANSPORTATION/BRIDGE CONSTRUCTION

**WEIGHT/DIMENSIONS:** Fagioli was contracted by joint venture company CMM for the installation of the bridge section that weighed 406 tons. The bridge section measured 68.2 meters by 14.9 meters by 4.8 meters.

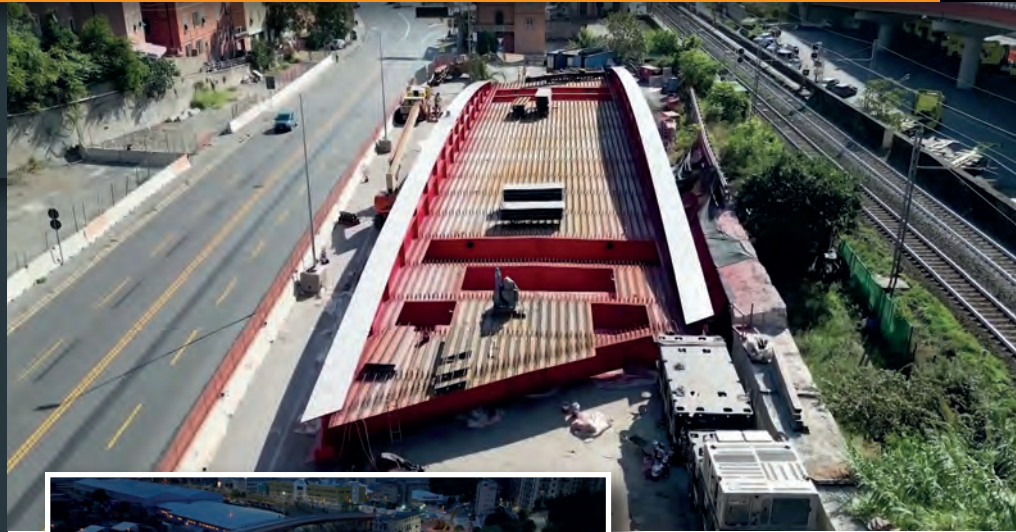
**RIGGING CHALLENGES:** For the launching operation, the SPMTs were assembled in three different configurations, two for transport and one that was used only for temporary storage. The bridge section was loaded by the first convoy of SPMTs. Because the bridge had to be positioned on a challenging roadway, Fagioli's team needed to prepare its transport and lift system in the installation area. Beams were positioned on a temporary pile and some rollers were welded onto the upstream shoulder as well as other temporary piles. The gantry lifting system with rail tracks was positioned near temporary piles and on the Via Siffredi installation area until it was needed.

For the first transport, 8 + 8 axle lines of SPMT were assembled in an almost ground-level configuration. Due to the narrow roads and the limited space, it was necessary to tie the four jack-up systems to the bridge.

The next step was the arrival in the interchange area and partial lifting by means of the jack-up systems, each with a capacity of 500 tons. The bridge was lifted by the jack-up system and the SPMT convoy was removed. After this operation, the bridge was stored on 8+8 SPMT axles lines with dedicated supports. Three by 12 axle lines of SPMTs were prepared and provided with the jack-up system and two lateral beams at the center, ready to take the load. Thirty-six axle lines of SPMTs rigged with the jack-up system hoisted the bridge at a height of about 7.5 meters to move along the road to the installation area. A 3D study was executed in order to execute a "roto translation" operation for the launching operation. The next operation involved positioning the whole bridge onto rollers that were previously located onto temporary supports. Following was the pushing action of the bridge by means of strand jacks.

**EQUIPMENT:** SPMTs, a jack-up system, rollers, a strand jacking system, a gantry system on rail tracks and mobile cranes from the Fagioli fleet were used in this operation.

**PROJECT DURATION:** An average of 13 Fagioli personnel was involved in this operation which was completed in several days in September 2022.



Safety and innovation were hallmarks of the bridge replacement project.



Fagioli created a high-level engineering solution to safely install the Siffredi Bridge in Genoa, Italy.

# Bridging the gap

Fagioli was contracted for the launch of the Via Siffredi Viaduct in Genoa, Italy. It was an exciting project that compelled Fagioli to come up with high-level engineering solutions to safely execute the operation. Safety and innovation were hallmarks of the job.

The bridge launch was performed using transport SPMTs rigged with jack-up systems and strand jacks with cable recovery jacks. The bridge deck was pre-assembled in an area near the viaduct jobsite and transported to the lifting area where it was lifted up for installation. The transport was performed on the ground and, subsequently, the deck was positioned on a translation system consisting of rollers installed

on the abutment and on the pile of the demolished overpass. Once the final point of the translation was reached, Fagioli's team proceeded with the lowering up to the launching position.

Top level engineering execution was required to install the 400-ton bridge in a very awkward position. The bridge had to be pushed about 16 meters to position it on top of its final foundations. The final lowering action was performed by a gantry lifting system.

"The use of several SPMT configurations and the jack-up system tied up to the bridge was an inventive solution that was deeply studied by the Fagioli engineering department," said Fagioli President Edoardo Ascione.



## NON WINNERS

The competition for the 2023 Job of the Year awards was impressive and awe-inspiring.

# Runners up

The energy in the room where the SC&RA Job of the Year presentations are held is always palpable. The red timer is glowing in the corner, ticking away as some of the most impressive and awe-inspiring feats in rigging, hauling and moving are brought to life on the big screen over the course of 20 minutes at a time. This year, in Carlsbad, CA, attendees and judges were treated to an array of multi-level projects across eight categories. The competition was certainly stiff, as each brought unique problem-solving elements to the table.

Following we have detailed the jobs that didn't take home the final prize, but are impressive, nonetheless. Keep an eye out for these job stories in the Site Report pages of *ACT* over the coming months.



**RIGGING**  
\$150,000 TO \$750,000

### FAGIOLI

Fagioli was commissioned for the safe execution of lifting and stand-by operations for the maintenance work on the A7 viaduct, at Sannazzaro de' Burgondi, in Pavia, Italy. The scope of work included the lifting of several bridge sections and their repositioning, to allow for the road maintenance. The lifting was performed with a tailor-made structure composed of a strand jacking system, beams, stools and SPMTs.



### W.O. GRUBB

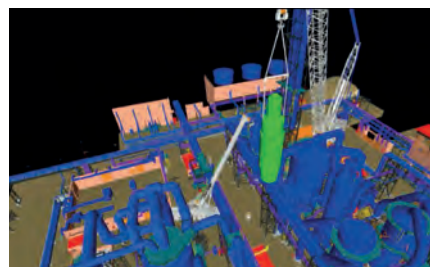
In the fall of 2022, W.O. Grubb was challenged with the removal of a 17-foot diameter by 150-foot-long cement kiln section. Bierlein was the contractor

responsible for subcontracting this task to the company. The available work area was extremely constricted with a pipe rack on the north side, concrete support piers on the east and west ends, structural steel on the south side and a lone column on the northeast quadrant.



### BARNHART

Barnhart was contracted to remove and replace a stripper, saturator and condenser during a customer's fall outage.



### GRUAS Y MANIOBRAS

The Gas Heat Exchanger Replacement project at the Cajamarquilla refinery, located on the outskirts of Lima, Peru, began in February 2022 and culminated in May 2022 after months of planning and engineering studies.



**RIGGING**  
OVER \$2 MILLION

### WILLIAMS STEEL ERECTION

In 2016, the Commonwealth of Virginia entered a Public Private Partnership (P3) with I-66 Express Mobility Partners for the Transform 66 project, to provide \$3.7 billion of privately funded transportation infrastructure improvements. Williams Steel Erection was tasked with one of the biggest challenges, involving the erection of ten "flyover" bridges which carried the exit ramps from the central toll lanes.



### ADVANCED FREIGHT DYNAMICS

In May 2022, Advanced Freight Dynamics transported a custody transfer meter skid 179.5 miles from Tomball, TX to Nederland, TX. This custody transfer meter skid was hauled from the fabricator to a facility where it would service the oil industry. This skid was fabricated to control oil measurements as this is a highly accurate metering system that maintains accuracy while pumping hundreds of gallons per minute between two owners.





## HAULING OVER 500,000 POUNDS

### BARNHART

Barnhart was contracted to provide transportation for two generators in Alberta, Canada. The project began February 21, 2022, and was completed April 1, 2022. The generators were 39

feet by 15 feet 4 inches by 15 feet 8 inches and weighed 845,000 pounds. The 260-mile haul was completed using the company's 24 Dolly Rig.

requested to be transported with all the ladders and platforms on with support on four saddles. NCSG investigated and was tasked with finding a configuration of trailers that would meet axle load restrictions for the proposed schedule, maximum bridge allowances, as well being short enough to be able to maneuver out of the location of the fabrication shop within the city and onto site with minimum or no additional civil work.



### EMMERT INTERNATIONAL

Emmert International designed, engineered a custom shipping frame, rigged and transported a test cryostat from Illinois to Switzerland to confirm that the engineering and fabrication of the transport frame met the specifications, prior to the shipment of an actual cryostat.



## MOVING

### EDWARDS MOVING & RIGGING

Edwards was contracted by WEHR Constructors, headquartered in Louisville, KY, to relocate and preserve a historic 1874-built, two-story solid masonry courthouse weighing 820 tons. According to the Kentucky Heritage Council, it is the second-oldest standing courthouse in the state of Kentucky and will be incorporated into the new judicial center being built as the entry to the new building.



## HAULING 160,000 TO 500,000 POUNDS

### FRONTIER HEAVY HAUL

Frontier Heavy Haul & Support safely transported a 757 RH Propel Cam Girder of a Page 757 Dragline Unit from DeKalb, MS to Center, ND, over the course of a 2,905-mile journey.



### EMMERT INTERNATIONAL

Emmert International recently completed the safe transport of a Reactor Effluent Steam Generator, (40 feet 11 inches by 16 feet 7 inches by 20 feet and weighing in at 577,000 pounds), from the Port of Houston to a refinery in Houston, TX.



### NCSG CRANE & HEAVY HAUL

NCSG's de-methanizer tower haul started off as two identical loads that were part of a large transport package. Initially it was



### TRANSDATA ENGENHARIA E MOVIMENTAÇÃO

Transdata Engenharia e Movimentação successfully completed the loading of the Mill in Caucaia, a city in the State of Ceará, where a 500-ton gantry crane was used to place the mill on 22 axles lines and to complete a road transport from Caucaia to the Port of Pecém in the State of Ceará, covering approximately 35 kilometers.





# CCO leverages

Over the past year, CCO rolled out several initiatives ensuring candidates can minimize the amount of time it takes to become certified including three new ways to take CCO written exams via computer. Building upon progress made in 2023, in 2024 CCO continues to introduce new technologies to bring faster certification processes.

## Testing on computers

CCO is committed to offering candidates options that best suit their schedules and needs. As 2023 sets, CCO is retiring

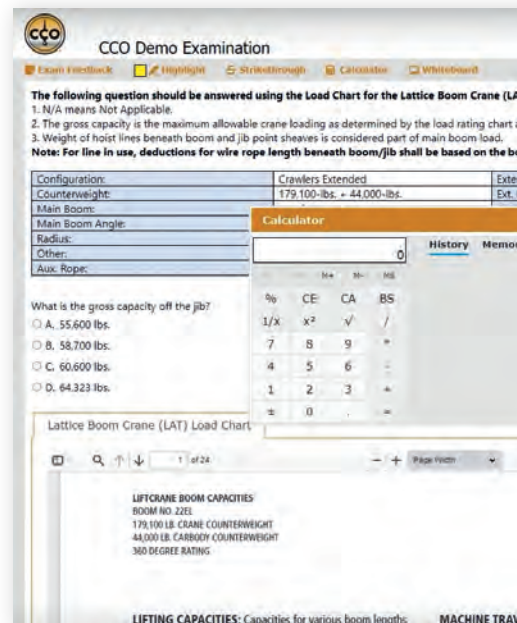
“OPT, TCT and EOT all leverage technology and current best practices in test delivery to improve the candidate experience...”

both paper/pencil testing (PPT) and computer-based testing (CBT). Instead, candidates can now choose from three written exam options: Online Proctored Testing (OPT), Test Center Testing (TCT), and Event Online Testing (EOT).

OPT is tailored to support candidates wanting to test on their own schedule. TCT replaces CCO's previous computer-based testing option, and it has an even wider range of test center locations. Finally, EOT supports candidates accustomed to testing in a group environment (often exams hosted by employers or following a training course).

All the new exam delivery options not only use the latest and greatest testing and security technology, but they also have key benefits for candidates and employers, including:

- Easy and fast online application
- No late application fees
- Quick and simple online scheduling
- No rescheduling fees
- Switch between testing options easily and at no cost
- Immediate score reporting \*



\*A preliminary score will be available immediately. Results are subject to review and approval following standard testing protocols.

The same exam delivery platform is used to administer all written exams, so

## Written exam options

### Online Proctored Testing (OPT)

CCO believes that OPT offers the highest degree of candidate flexibility. OPT can be done at home—or almost any private room with an internet connection. Testing is available 24/7/365 from anywhere around the world, and once approved for testing, candidates can book an OPT session in as little as 15 minutes in advance. This will be particularly convenient for scheduling around work obligations and inclement weather, or even testing at night or on the weekend. Even more, candidates can cancel/reschedule their exam up until the exam starting time with no additional fee.

OPT incorporates additional exam security measures allowing for this more flexible testing option. In this mode an online proctor monitors the candidate in real time via webcam, microphone and screen share, with the assistance of artificial intelligence (AI). All recordings are stored

and reviewed for testing irregularities.

Before the exams start, the online proctor leads each candidate through a check-in process that takes about a half hour. They check the candidate's ID, ensure the computer meets minimum requirements and is set up properly, and confirm that the computer is not running any inappropriate software. Additionally, the online proctor has the candidate perform a 360-degree room scan using the computer's camera to show that the candidate is in the room alone and that there is nothing that could be used during the exam to offer an unfair advantage.

Benefits specific to OPT include:

- Available 24/7 – Test without missing work
- Test from anywhere – Home, office, hotel, anywhere with sufficient internet and a private room with a closed door
- Fast scheduling – Candidates can schedule testing appointments in as little as 15 minutes (pending availability)

- Exams on your computer – Use your own computer that meets minimum technical requirements and has a microphone and webcam
- Flexible rescheduling – You may reschedule up to 30 minutes prior to your exam appointment time
- No additional fees – no “sitting fee” or other hidden charges

Learn more about OPT at [www.nccco.org/opt](http://www.nccco.org/opt).

### Test Center Testing (TCT)

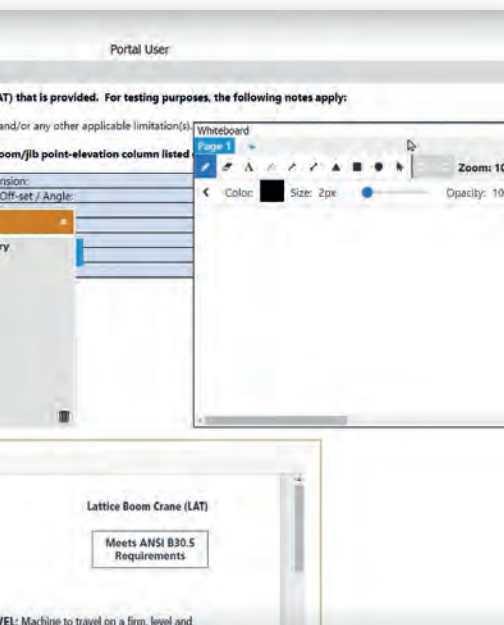
TCT exams are delivered via computer at a facility established specifically for administering secure exams. Candidates still apply for exams through their myCCO portal. Once the application is approved, candidates can schedule the exam appointment within two business days through their myCCO portal.

With the vast increase in testing centers compared to CCO's previous CBT solution, candidates have unprecedented access and flexibility to take CCO exams when and where they please.

Benefits specific to TCT include:



# technology



the look and feel is identical no matter which option is selected. Everything from applying to scheduling and taking exams is similar no matter how they choose to test. With all exam options every candidate is recorded from start to finish

**All necessary references and resources are incorporated into the delivery platform, so all modalities have a similar look-and-feel.**

via webcam, microphone, and screen record. All recordings are stored and reviewed for test irregularities. Testing fees are also the same for all options. Plus, candidates can switch from one method of exam delivery to another at no cost.

## Onscreen resources

Exams that require supplements (e.g., load charts) or calculators have these available on-screen. In place of scratch paper, candidates may use a physical whiteboard/dry erase board up to 8.5 in. x 11 in. or an on-screen whiteboard that is built into the exam. For security reasons, all physical paper has been eliminated from CCO test administrations.

CCO is committed to ensuring all its candidates have a positive test experience and are prepared for test day. CCO has prepared materials to assist candidates with the new processes, including videos

of what to expect and an exam demo so that candidates can practice taking an exam in the computerized environment. See how the testing platform works at [www.nccco.org/ESOdemo](http://www.nccco.org/ESOdemo).

All necessary references and resources are incorporated into the delivery platform, so all modalities have a similar look-and-feel.

“OPT, TCT and EOT all leverage technology and current best practices in test delivery to improve the candidate experience through increased flexibility in scheduling and faster exam scoring, while also ensuring higher levels of test security,” said Joel Oliva, CCO Senior Director of Innovation.

## Technical specifications

The computer requirements for Online Proctored Testing (OPT) and Event Online Testing (EOT) are identical except for the bandwidth required. To enable multiple candidates to test simultaneously, EOT requires significantly more internet bandwidth than OPT. For details, go to [www.nccco.org/techreq](http://www.nccco.org/techreq).

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- Convenient access – Nearly 600 testing centers available nationwide
- Plan ahead – Candidates schedule (or reschedule) exam appointments at least two days before testing
- Show up and test – No need to check whether testing space, computer, and/or internet meet specifications
- Whiteboards provided – The test center provides an 8.5 in. x 11 in. whiteboard to each candidate
- In-person Proctor – Professional, experienced TCT staff are on-site to launch exams
- No additional fees – No “sitting fee” or other hidden charges

To learn more about TCT visit [www.nccco.org/tct](http://www.nccco.org/tct).

## Event Online Testing (EOT)

EOT is CCO's solution to the group testing setting as a replacement for paper/pencil testing. In many instances, candidates are brought together at a single location to go through training and then complete testing. EOT supports this approach, but instead of

candidates testing using paper exam booklets and scantron bubble forms, they test on computers.

EOT administrations are conducted at CCO authorized test centers. These can be established at dedicated facilities (such as an employer's office or training facility) or set up at temporary locations such as hotels or other off-site locations. As with all testing options, candidates use the myCCO Portal to apply online to test at an EOT administration and receive notification of approval for testing.

The EOT test site has complete flexibility with setting up exams on a schedule that meets the site's and its stakeholders' needs. Each candidate needs a dedicated computer for EOT test administrations; however, because of the flexibility of this modality, a candidate may be scheduled to use a computer in the morning, and a different candidate may use the same device in the afternoon.

On test day, candidates are checked in by a proctor who is physically present. The candidates then take all exams they

are scheduled for in succession.

While candidates who currently test in a group setting (via paper/pencil) must wait up to 12 business days to receive exam results, a major benefit to moving to EOT is that all candidates who complete exams receive their scores immediately at the conclusion of their tests.

Exam security is maintained by the physically present proctor. In addition, exam administrations are also recorded.

Benefits specific to EOT include:

- Familiar setting – Testing is typically done at the employer or training provider's facility
- On-site testing personnel – Individuals credentialed by CCO are on site to guide candidates through the test-day process
- Scheduling flexibility – Candidates work directly with testing personnel to schedule and reschedule, even if they miss their exam time
- Show up and test – No need to ensure the testing space, computer, and/or internet connection meet specifications

Learn more about EOT at [www.nccco.org/eot](http://www.nccco.org/eot).



# CCO certification

**C**CO offers 28 Gold Standard certification designations across 14 categories making it the most comprehensive portfolio of personnel certifications available for those in and around load handling equipment. Many are accredited by the ANSI National Accreditation Board (ANAB) to the international standard ISO 17024, and they are officially recognized by federal OSHA as meeting or exceeding ANSI/ASME/ITSDF requirements as well as being endorsed by leading insurance providers and industry membership associations.

## Articulating Crane Operator Program

This program addresses the specific knowledge and skills required to operate articulating boom cranes and articulating

boom loaders. Three designations are available: articulating boom crane operator (ABC), articulating boom crane with winch operator (ABW), and articulating boom loader operator (ABL). For more information, go to [www.nccco.org/aco](http://www.nccco.org/aco).

## Concrete Pump Operator Program

The CCO Concrete Pump Operator (CPO) is the only program available from an accredited organization in the US that meets ASME B30.27. The program addresses the unique characteristics and operations of concrete pumps. Candidates are currently certified through a written exam only, but a practical exam will be added in early 2024. This program tests operators on operation concepts and scenarios as well as U.S. industry

standards that operators need to know. For more information, go to [www.nccco.org/cpo](http://www.nccco.org/cpo).

## Crane Inspector Program

The newly streamlined CCO crane inspector certification program is designed to bring the same safety, insurance, and risk reduction benefits common to CCO's other certification programs. Through separate specialty exams, candidates may be certified to inspect articulating (ACI), mobile (MCI), tower (TCI), and/or overhead (OCI) cranes to ensure they are properly maintained and safe for use. CCO recently restructured certification requirements removing the need to pass operator exams making the process faster and less expensive. For more information, go to [www.nccco.org/ci](http://www.nccco.org/ci).

## Scoring speeds up

CCO is also updating its practical exam administration process leveraging the latest technology. Starting in January 2024 CCO is rolling out a new tablet-based solution for practical exam administration. This solution will result in candidates receiving their practical exam scores in significantly less time than they do today. By July, all Practical Exam Proctors will move to the new system; paper score sheets will be eliminated.

With the new system, Practical Exam Proctors (PEPs) record candidate performance via a tablet rather than on a paper score sheet. The system used to record candidate performance also scores the exams and allows candidates to receive exam results in a day or less; this is a drastic improvement from the legacy system, which can take up to 22 days following the exam when using paper score sheets.

"This is one of the most exciting improvements at CCO to date—we will be able to vastly reduce the amount of time it takes to get certified from nearly a month to just days," said CCO CEO Thom Sickelsteel.

While PEPs will not be required to use the new system until July 1, 2024, candidates who need to certify quickly may ask their proctors if they are using the new system, so they know what timeline to expect for their score report.

In addition to the major improvement to score reporting time, the new practical exam process allows for real-time authentication of credentials for those administering the exams, practical test sites' registration status, and candidates' authorization codes for testing. This is expected to reduce administrative issues related to exam administration and increase program integrity.



## Dedicated Pile Driver Operator Program

The Dedicated Pile Driver Operator (DPD) certification program addresses the unique characteristics and operations of dedicated and purpose-built pile drivers, while also meeting operator certification requirements under the OSHA crane rule (1926 Subpart CC). The practical exam tasks include the lifting, maneuvering, and setting down of a pile, as well as the demonstration of the actions and equipment settings necessary to begin the driving of a pile. For more information on this certification program, go to [www.nccco.org/dpd](http://www.nccco.org/dpd).

## Digger Derrick Operator Program

Digger derricks are unique pieces of equipment, most built to ANSI A10.31 standards, with their own capabilities and risks and, as such, a CCO certification program (DDO) addresses their specific characteristics. For more information about how to earn this OSHA compliant certification go to [www.nccco.org/ddo](http://www.nccco.org/ddo).





PHOTO: ADOBE STOCK

# programs

## Drill Rig Operator Program

The Drill Rig Operator (DRO) certification program, launched in 2018 in conjunction with ADSC—The International Association of Foundation Drilling, consists of separate certifications for operators of Foundation Drill Rigs (FDR) and for Anchor/Micropile Drill Rigs (AMP). For more information, go to [www.nccco.org/dro](http://www.nccco.org/dro).

## Lift Director Program

The CCO lift director certification is for those who have responsibilities for lift planning and supervision. Certification requirements have recently been simplified so that candidates need to pass only two exams to earn certification, greatly reducing the time and expense involved. Exams cover all disciplines required for safe planning and execution of simple and complex single- and multi-crane lifts. Separate certifications are available for mobile crane lift directors (MLD) and tower crane lift directors (TLD). The lift scenario questions found on the lift director specialty exams evaluate a candidate's ability to comprehend the information presented and apply knowledge of lift planning and directing in circumstances that may be found in real-life situations. For more information, go to [www.nccco.org/ld](http://www.nccco.org/ld).

## Mobile Crane Operator Program

The CCO Mobile Crane Operator certification is the oldest and one of the most popular CCO certification programs. Further, OSHA 1926 requires certification for operators of most cranes when used in construction. In addition to the core written exam, candidates are required to take one or more specialty examinations covering specific types of mobile cranes: lattice boom cranes (LAT), telescopic boom cranes—swing cab (TLL), and/or telescopic boom cranes—fixed cab (TSS). Service truck

cranes (STC) are a subcategory of the TSS designation. For more information, go to [www.nccco.org/mco](http://www.nccco.org/mco).

## Overhead Crane Operator Program

Candidates must pass both written and practical exams to become CCO-certified overhead crane operators (OVR). The overhead crane practical exam can be taken on either a cab-operated crane or a pendant/remote control-operated crane, and tests skills including trolley travel, hoisting, bridge travel, and combined-function operations. For more information, go to [www.nccco.org/oco](http://www.nccco.org/oco).

## Rigger Program

CCO is the only accredited Rigger certification that is portable among employers. Two certification levels are available: Rigger Level I (RIG-I) certification indicates that certified personnel are considered qualified for most rigging work, while Rigger Level II (RIG-II) certification shows that they can rig non-routine jobs that require independent thinking without supervision. For more information, go to [www.nccco.org/rig](http://www.nccco.org/rig).

## Signalperson Program

In addition to being able to give accurate visible and audible signals, CCO-certified signalpersons (SGP) are required to have basic knowledge of crane operations and limitations, understand specific considerations concerning the construction site, and know applicable safety standards and regulations. Signals for both mobile and tower cranes are tested. For more information, go to [www.nccco.org/sgp](http://www.nccco.org/sgp).

## Tower Crane Operator Program

OSHA 1926 requires certification for operators of most tower cranes when used in construction. Candidates must pass both

## CCO CCO EDU Education Services

The National Commission for the Certification of Crane Operators (CCO) is excited to announce the formation of CCO Education Services LLC (CCO EDU).

One of the core elements in CCO's mission has been to improve the standards of knowledge. While CCO certification is a vital element in creating safer job sites, the quality of preparatory training is an essential component of certification.

To that end, CCO EDU has been formed as a new subsidiary of CCO. CCO EDU will focus on developing, auditing, and approving a network of "accredited" training providers. The "accredited" training providers will be required to meet stringent training standards. Additionally, CCO EDU will also develop basic training materials that can be used by training providers and the industry to improve the overall level of training for CCO certification candidates. To achieve this goal, CCO EDU will establish a committee of training subject matter experts to develop training material.

"CCO recognizes the importance of training to increase safety in the industry," said Thom Sickelsteel, CEO, CCO. "CCO remains dedicated to being the Gold Standard of certification and to partnering with training providers to improve the quality of training to prepare candidates for CCO certification exams."

More information on the training provider accreditation program, training materials and the formation of committees will be available in January 2024.

written and practical exams to be CCO-certified tower crane operators. For more information, go to [www.nccco.org/tco](http://www.nccco.org/tco).

## Telehandler Operator Program

The Telehandler Operator certification is CCO's newest certification and is the first telehandler operator certification that meets both OSHA 1926 and OSHA 1910 requirements as well as ANSI/ITSDF B56.6 standards. The program has designations for two types of telehandlers: Fixed (THF) and Rotating (THR). OSHA 1910 and 1926 both have requirements for operators of telehandlers, and CCO certification can assist in meeting the requirements. For more information, go to [www.nccco.org/tho](http://www.nccco.org/tho).





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## NCCCO FOUNDATION

The NCCCO Foundation has been hard at work improving various facets across the construction industry.

# Launching new initiatives

**2** 023 saw the launch of several new initiatives by the NCCCO Foundation designed to assist the crane industry in three key areas: Education, Research and Workforce Development. As established by the board at the end of the prior year, these primary organizational goals were identified as opportunities that could improve the industry.

### Annual Industry Forum

The NCCCO Foundation continued the very successful Industry Forum educational meeting. In its eighth year, the Industry Forum was held on October 19, 2023, in Crosby, TX in collaboration with the CCO Fall Commission meeting. In a change from recent years, the Industry Forum was held only as a live in-person event. It was attended by more than sixty people from different sectors of the crane industry. The keynote speaker was again OSHA Director Ketchum who provided his update on activities at the OSHA Directorate of Construction via Zoom. Other speakers included Thom Sickelsteel, CEO at CCO and vice chair on the ASME B30 Committee, who provided

updates on the work of the committee and subcommittees. In addition, Joel Oliva spoke about the past, present and future of CCO testing, and Cantwell presented the audience with highlights of the NCCCO Foundation's initiatives during 2023.

As always, the Industry Forum was well-received with attendees indicating they were satisfied with the Industry Forum content, and they would definitely attend the event again noting the topics continued to provide new information and were relevant to the industry.

### New webinar series

To expand the education opportunities available to the industry a new educational webinar series was also started. The free quarterly webinars began in May and were held each quarter thereafter covering a variety of topics. The first webinar entitled "Certificate, Certification, and Licensing are NOT the Same...How to Ensure You're Meeting the Requirements" was also presented by Sickelsteel, who thoroughly explained the differences and how the differences affected compliance. The second webinar, "Engaging and Recruiting Youth Into the Crane Industry" was

presented by Hannah Bullard of Tallo, a company that partnered with the NCCCO Foundation to conduct a national survey of the perception of young talent regarding careers in the crane industry. The third webinar, "Understanding the Current State of Safety Hazards in the Crane Industry" that was held in September, discussed the results of a national safety survey of CCO certified individuals conducted by the National Safety Council (NSC) Work to Zero program in collaboration with the NCCCO Foundation. The webinar provided important data about the state of safety hazards in the crane field and what technologies are currently being used to address some of the concerns. The last webinar of 2023 feature a panel of four talented female crane operators who discussed their experiences in the crane industry and why they believe more men and women should consider it as a career.

Information about upcoming webinars in 2024 and recordings of all previous webinars are available on the educational webinars page at [ncccofoundation.org](http://ncccofoundation.org).

### Directory changes

The Crane Type Advisory Group (CTAG)

>30

continues to respond to regular inquiries regarding most similar determinations. Only one update was made to the Most Similar Certifications Directory in 2023. CTAG changed the directory to reflect the fact that a new certification became available in March for fixed cab and rotating telehandlers and therefore individuals operating the specified equipment should obtain that certification to remain in compliance.

### New OSHA Alliance

On November 16, 2023, the NCCCO Foundation and the National Commission for the Certification of Crane Operators (CCO) entered into a formal agreement with the federal Occupational Safety and Health Administration (OSHA) through the OSHA Alliance Program. The agreement is one of only forty active national alliances of its kind with OSHA.

The aim of the alliance is to keep the industry informed of OSHA's applicable safety-related initiatives and outline several initiatives aimed at improving safety in the crane industry that the organizations will work on together, such as: sharing industry alerts; encouraging industry participation in and support of OSHA events and programs; convening roundtable discussions and stakeholder meetings on crane industry safety; providing opportunities for OSHA to speak and participate in industry meetings and events; raising awareness of resources and tools that will assist operators in complying with OSHA regulations; sharing information on updates to OSHA load handling regulations and enforcement such as certification and evaluation requirements; developing surveys for candidate base segments and sharing survey results; and encouraging key CCO test sites to build relationships with OSHA's Regional and Area Offices to promote safety and awareness.

Additionally, the alliance will coordinate opportunities for training of OSHA compliance staff focused on operator qualification, certification standards and jobsite responsibilities as well as equipment demonstrations or innovations.

It is anticipated that several new resources will be developed and made available to the industry throughout the two-year alliance.

### Workforce research

The NCCCO Foundation initiated three



**Thom Sickelsteel provided ASME B30 Committee updates at the Industry Forum.**

new research projects in 2023 designed to collect data specific to the crane industry in the areas of safety and workforce development. In June, a national survey of more than 1.5 million job seekers, mostly youth and students, was conducted. The survey focused on determining individuals' overall perception of the crane industry as a career. An overview of the key findings of the report are available via a webinar recording on the NCCCO Foundation's website.

In addition, the NCCCO Foundation partnered with the Human Resources Research Organization (HumRRO) to conduct comprehensive research of the existing crane industry workforce. The goal of the research is to document the current state of the crane operator profession nationwide, including workforce demographics, experiences, interests, career paths and employment histories of the nation's crane operators.

Several focus groups of CCO certified operators were held in August and a national survey of all active CCO certificants was conducted in late 2023. A final report is expected in early 2024.

In July, national safety research was also conducted in collaboration with the National Safety Council (NSC) Work to Zero program. The research was designed to help identify priority safety issues specific to the crane industry and assist in setting a baseline of safety concerns that will be shared with the industry and help focus future educational efforts on safety. A webinar providing an overview of the results of the survey and an executive summary are available on the Foundation's website. Follow up projects with the NSC include creating in-depth case studies of

lessons learned and best practices, as well as a report comparing safety hazards in the crane industry to other industries.

### V.I.C.T.O.R program expands

During the summer, the NCCCO Foundation and HEC of America announced the expansion of the existing Veteran In Crane Training Outstanding Recognition (V.I.C.T.O.R.) program to two more HEC locations. The award originally provided recognition to only those in the HEC training classes for veterans at Fort Irwin Army Base in California and at Joint Base Lewis-McChord location in Washington State but will now include HEC training programs in Stone Crest, GA and Oklahoma City, OK. At the conclusion of each quarter, the V.I.C.T.O.R. award now recognizes the top-performing veteran in each of the four HEC locations providing training for NCCCO mobile crane operator certification.

As part of its efforts to help individuals understand the numerous career opportunities available in the crane industry, the NCCCO Foundation began work on the development of several new career awareness resources. Scheduled to launch in the summer of 2024, a new website will be available to the public providing information such as the descriptions of the types of careers available, the benefits of working in the industry, stories and videos of successful crane operators and various career pathways. The website and resources will be supplemented by new scholarships programs and outreach and communications efforts to several different audiences. It is anticipated these new workforce development resources will be utilized by individuals of all ages seeking more information about potential crane careers, as well as educators, and companies in the crane industry. ■





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SC&RA continued to cultivate member success in 2023.

# Playing a key role

In the pursuit of improved safety, efficiency, productivity and profitability for SC&RA member companies, the Association advocates throughout the year on the industry's behalf to state and local officials as well as worldwide governing bodies and policy makers. As a result, SC&RA member companies benefit from exemptions in regulation, improvements in state and local permitting and consistent representation across a diverse range of industry topics.

"From thirty thousand feet, our advocacy initiatives never stop," emphasized CEO Joel Dandrea. "And because the regulatory process often moves slowly, we maintain ongoing dialogue with our members, committees and our board of directors to constantly identify priorities and effectively serve as the voice of the industry."

Acknowledging that 2023 was an extremely productive year for SC&RA, Dandrea pointed out that, among a robust list of victories, SC&RA played a key role as part of a team contracted by the Federal Highway Administration to implement supply chain resiliency strategies during and after natural disasters for a now-completed guide.

"We also weighed in with a broad industry coalition and signed onto a letter in July encouraging the Biden Administration to help avoid a UPS strike that had the potential to cripple the

national supply chain," he said.

Moreover, Dandrea recognized that the Foundation (SC&RF) delivered a completed draft of its much-anticipated Public Benefits Analysis Report, which will help support SC&RA's advocacy strategy moving forward.

And on the membership side, he was quick to mention that the Association retained over 92 percent of its members from 2022, and by the looks of member engagement in 2023, member loyalty and interest continues to meet and exceed pre-pandemic numbers.

Jason Bell, Director, Membership, agreed. "A great example: we saw a hundred and eighty first-time attendees at the Workshop in September. I think everyone is hungry for new business and, across generations, people are understanding the total value that utilizing an SC&RA membership brings. I've definitely spent more time in recent meetings having longer, more in-depth conversations with both current and prospective members. And that's what we want. Everyone's trying to get better – and we're here to help."

Of note, said Bell, "Coming up, something members will want to pay attention to is that we've overhauled our awards program. The questions and the requirements will stay the same, but the process to submit applications should improve significantly. Members will see that process open for 2024 awards on January first, and we encourage all members to apply for the appropriate awards for their business.

## New guidance

Notable wins for SC&RA on the crane and rigging side were steady throughout 2023. Through its participation in the Construction Industry Safety Coalition, the Association was signatory to formal comments submitted to OSHA on the "Use of Leading Indicators." The comments urged OSHA to recognize the impact on small businesses and to develop/create tools that can be applied across industry regardless of jobsite size and different construction sectors.

At the international level, SC&RA, along with the Association of Equipment

**The 2023 Crane & Rigging Workshop in Oklahoma City set records for attendance.**



**The Specialized Transportation Symposium continued to offer attendees the rare up-front and personal chance to engage with state and regional officials.**





**While California remains one of the few states left without an auto-issue permit system, SC&RA acknowledged that a joint meeting between California DOT and California Trucking Association's Permit Advisory Committee at the 2023 Annual Conference left a lot of room for optimism. IMAGE ©BRAGG COMPANIES, LONG BEACH, CA.**

Manufacturers (AEM), hosted the International Crane Stakeholders Assembly in March, and not only examined global industry issues like cyber security and the right to repair, but agreed to develop new guidance documents addressing crane operations around powerlines, asymmetrical outriggers, lift planning and training of personnel.

According to Beth O'Quinn, SC&RA Sr. Vice President, Crane & Rigging, SC&RA worked with AEM and the National Commission for the Certification of Crane Operators in writing letters to the Virginia General Assembly in opposition to H.B. 1392 and S.B. 840 – which would have

created unnecessary regulations on crane activities in Virginia.

"Ultimately, we established the language proposed in this bill was in direct conflict with ASME [American Society of Mechanical Engineers] standards that have long been the national safety standard for the industry," she indicated. "Specifically, the language proposed adding new roles, 'Safety Engineer' and 'Project Manager', that are not identified in the ASME B30 standards. (Both the Virginia Senate and House have now passed this issue by indefinitely.)

On the Hours of Service (HOS) front, O'Quinn pointed out that the five-year exemption (through 2023) SC&RA had previously acquired from FMCSA for the 30-minute rest break for drivers operating mobile cranes with a rated lifting capacity of greater than 30 tons is no longer needed. "The agency heard our concerns and made necessary changes to the regulations that no longer necessitate an exemption," she said. "However, SC&RA's separate exemption for permitted loads remains in effect until 2025."

O'Quinn also explained that SC&RA committees and task forces have been busy in 2023 developing resources addressing key safety issues including best practices for tower crane procedures, a boom dolly safety e-learning module and a resource focusing on the types and selection of supporting materials for mobile cranes. Additionally, the Understanding Mobile Crane Bare Rental Agreements guide will be available by the end of the year.

### More attention

On the transportation side, SC&RA sponsored and attended the annual Trucking Association Executives Council

meeting in Rhode Island in July. The organization, constituted by the executives of all 50 state trucking associations, enables SC&RA to build grass-roots coalition support nationwide with boots-on-the-ground efforts in individual states.

The Association also filed comments to the Federal Register in support of FMCSA's changes to its CSA Safety Management System policies, noting that while industry remains concerned at the pace of federal rulemaking, the specific changes to SMS are welcome as a more accurate and equitable way to report the safety performance of specialized carriers.

And harmonization remained a key focus throughout 2023, said Chris Smith, Vice President, Transportation. To that end, he pointed to a Permit Policy Committee meeting in 2022 that prioritized five states that require more attention than others. "We still have our national permit harmonization and automation campaigns, but from that meeting, we thought we could make significant progress this year in Massachusetts, Utah, California, North Carolina and Iowa."

According to Smith, Iowa didn't disappoint. "The Iowa Legislature unanimously passed legislation to give the state DOT the flexibility to waive some of their permit rules for emergencies as well as special economic projects."

While Massachusetts is still a work in progress, he added, "SC&RA hired full-time lobbyist, Mark Malloy, who continues to build a coalition of both SC&RA member and non-member companies looking to overcome the state's low 130,000-pound superload permit threshold."

Smith acknowledged that California







**Within a busy year on the crane & rigging side for 2023, SC&RA was also busy developing resources addressing key safety issues, including best practices for tower crane procedures, a boom dolly safety e-learning module and a resource focusing on supporting materials for mobile cranes.**

remains one of the few states left without an auto-issue permit system – but a productive meeting in Carlsbad with the joint California DOT (Caltrans) and California Trucking Association's Permit Advisory Committee has him optimistic that an active program will soon be in place to ultimately push them forward. Similarly, while North Carolina got off to

a rocky start with its new system, things appear to have evened out more recently.

As for Utah, Smith confirmed. "The issue there is regional. Utah, Colorado and Oklahoma do not permit nine-axle trunnion-style trailers the same 60,000 pound-per-axle weight limit as longer tridem configurations. However, utilizing momentum from a 2022 live trunnion

demo for UDOT bridge engineers in Salt Lake City, our members continued to host productive in-person industry roundtables with ODOT and CDOT during major SC&RA and WASHTO 2023 events."

Smith noted that the Permit Policy Committee met again this summer. "We haven't picked a new top five," he said, "but we're going to survey all SC&RA members about pain points in any state, and then use that feedback to prioritize the next list."

Looking ahead, Smith is excited about the upcoming Specialized Transportation Symposium (February 20-22, Houston, Texas). "It has become the forum for government and industry to meet and work together," he stressed, "and I don't know how we would have these recent successes without the consistent growth of this event, and the relationships and collaboration it produces."

**Boosted by a productive live trunnion demo for Utah DOT in Salt Lake City in 2022 (pictured), SC&RA members have continued to host productive in-person industry roundtables with Oklahoma DOT and Colorado DOT during major SC&RA and WASHTO 2023 events.**







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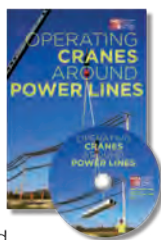
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1-25 copies: **R** \$10.99 **M** \$7.99

26-75 copies: **R** \$9.99 **M** \$6.99



### SPECIALIZED TRANSPORTATION DRIVER TRAINING

This first of its kind video was created to address the needs of drivers who are both new to the specialized transportation industry and transporting oversize/overweight loads as well as a refresher for veteran drivers.

This video addresses driving skills like right turns and rail road crossings, as well as route planning, permits, and hazard identification. Additional topics include liability issues with OS/OW loads and advice for working with a team.

Item S16D (DVD): **R** \$195.00 **M** \$150.00



### THE GUIDE TO MOBILE CRANE SAFETY MANAGEMENT

This comprehensive reference manual addresses four main areas of consideration when operating a crane or utilizing cranes on a jobsite including risk, lift classification, lift planning and jobsite issues. In addition to criteria for types of lifts, site factors, pertinent formulas, roles and responsibilities, equipment inspection criteria and safety factors, the manual includes over 18 useful charts, checklists and inspection lists.

Please specify English, Spanish or Portuguese.

Item CR3: **R** \$199.00 **M** \$99.00



**R** = Retail price

**M** = Member price



## EDUCATION/TRAINING cont.

### GLOSSARY OF COMMON CRANE AND RIGGING TERMS

This handy pocket-sized tool contains concise definitions of 681 common terms used in the performance of duties related to crane and rigging work. The listings also refer users to related terms and other words with the same meaning. Available in English or Spanish.

**Item CR5 (English)**

**Item CR5-S (Spanish)**

**1-15 copies: R \$14.95 M \$12.95**

**16-49 copies: R \$13.95 M \$11.95**

**50+ copies: R \$13.25 M \$11.25**



### RECOMMENDED PRACTICES FOR TELESCOPIC HYDRAULIC GANTRY SYSTEMS

This video features equipment set-up, proper use and system maintenance. The accompanying 24-page manual covers five main areas:

- Scope and definitions
- Construction
- Inspection/load testing/maintenance
- Pre-lift planning
- Operations

**Item HGD (DVD+Book): R \$129.00 M \$99.00**

**Item HG (Add'l Books): R \$69.00 M \$49.00**



### SPECIALIZED TRANSPORTATION LOAD SECUREMENT

This video includes explanations of FMCSA regulations and how they apply to specific loads, information on tie-downs and calculations to determine the number of tie-downs needed. Whether your company uses aggregate working load limits or performance criteria – we have you covered.

**Item S16B (DVD): R \$195.00 M \$150.00**



## ONLINE TRAINING

SC&RA is pleased to introduce online training for employees. Visit [scranet.org/training](http://scranet.org/training) to view available course and webinars.



## PRODUCT CATALOG

**R** = Retail price

**M** = Member price

## TRANSLATED PRODUCTS

### CRANE HAND SIGNALS POSTER DECAL—ENGLISH/SPANISH

Available in both English and Spanish (on one decal), with an illustration for each signal. The 11" × 16" decals are printed in black ink on durable white adhesive-backed vinyl, ideal for application to exterior painted metal equipment.

Item S13 1-29 copies: **R** \$5.50 **M** \$4.50  
30+ copies: **R** \$5.00 **M** \$4.00



### CRANE HAND SIGNALS POCKET GUIDE

All the crane hand signals in a handy pocket guide format in both English and Spanish. Includes illustrations for each signal. Pocket Guides are a tri-fold design and fit easily into a pocket or wallet. A must have for every signal person on your site. (Pack of 10).

Item S14—1 Pack: **R** \$26.00 **M** \$16.00



### CRANE HAND SIGNALS MOBILE APP

Now there's an app for reviewing hand signals! Each signal is shown graphically so signal persons can quickly and easily reference the appropriate signal for each command. Includes English and Spanish translations. The app is intended for use before entering the workplace. Available in the iTunes App Store, and on Google as a Droid app.



### GLOSSARY OF COMMON CRANE AND RIGGING TERMS

This handy pocket-sized tool contains concise definitions of 681 common terms used in the performance of duties related to crane and rigging work. The listings also refer users to related terms and other words with the same meaning. Available in English or Spanish.

Item CR5 (English)/Item CR5-S (Spanish)  
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### THE GUIDE TO MOBILE CRANE SAFETY MANAGEMENT

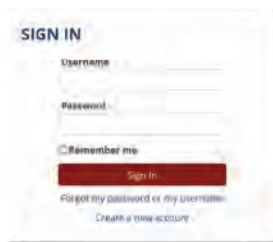
This comprehensive reference manual addresses four main areas of consideration when operating a crane or utilizing cranes on a jobsite including risk, lift classification, lift planning and jobsite issues. In addition to criteria for types of lifts, site factors, pertinent formulas, roles and responsibilities, equipment inspection criteria and safety factors, the manual includes over 18 useful charts, checklists and inspection lists. Please specify English, Spanish or Portuguese.

Item CR3: **R** \$199.00 **M** \$99.00



## FREE RESOURCES FOR SC&RA MEMBERS

Members enjoy free access to crane, rigging, transportation and business resources at [www.scranet.org/membersonly](http://www.scranet.org/membersonly).



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## MEMBER DIRECTORY

### DIRECTORY OF MEMBERS AND EQUIPMENT

This annual directory of members and equipment is the most complete and up-to-date reference source in the industry:

- U.S., Canada and world-wide listings of qualified member contractors, their capabilities and equipment;
- Fast referencing by alphabetical and geographical indexes;
- Allied products and service listings include everything from manufacturers, consultants, and spare parts, to insurance and publications.

Item T7 (Print): 1-5 copies: **R** \$115.00 **M** \$50.00  
 6-10 copies: **R** \$115.00 **M** \$45.00  
 11+ copies: **R** \$115.00 **M** \$40.00

Item T7a (CD): Each: **R** \$499.00 **M** \$145.00

Note: The Directory on CD does not include e-mails.



## PRODUCT CATALOG

## UNION AGREEMENTS

### UNION AGREEMENTS

SC&RA offers its members the opportunity to partner with unions through agreements that increase competitiveness and market share of signatory employers and work opportunities for union members. The agreements cover key provisions and have been used successfully throughout the industry for decades. For more information, contact Beth O'Quinn, [boquinn@scranet.org](mailto:boquinn@scranet.org).



#### INTERNATIONAL ASSOCIATION OF BRIDGE, STRUCTURAL, ORNAMENTAL AND REINFORCING IRON WORKERS

**NCEFR—National**

**Agreement for Remodeling, Repair, Replacement, Renovation & Maintenance Work**

To read the full agreement, visit [www.scranet.org/NCEFR](http://www.scranet.org/NCEFR)



#### UNITED BROTHERHOOD OF CARPENTERS AND JOINERS OF AMERICA MWA Agreement – Association of Millwright Contractors

To read the full agreement, visit [www.scranet.org/MWA](http://www.scranet.org/MWA)



#### MWA-M AGREEMENT FOR THE PERFORMANCE OF REPAIR, REPLACEMENT, MAINTENANCE & RENOVATION WORK

**–Association of Millwright Contractors**

To read the full agreement, visit [www.scranet.org/MWAM](http://www.scranet.org/MWAM)



#### INTERNATIONAL UNION OF OPERATING ENGINEERS Operating Engineers Agreement

To read the full agreement, visit [www.scranet.org/OEA](http://www.scranet.org/OEA)

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[SCRANET.ORG/STORE](http://SCRANET.ORG/STORE)

## INSPECTION FORMS/CHECKLISTS

### ASSEMBLY/DISASSEMBLY CHECKLISTS

#### Mobile Crane Pre-Job Safety Meeting Checklist

This checklist provides more than 45 items that should be reviewed before beginning onsite work. Categories include hazard assessment, power line safety, qualified workers, and crane configuration. (25 forms per pad. Includes a carbon copy. Size is 8.5X14)

Item S20 **R** \$17.00 **M** \$12.00



### CRANE SAFETY INSPECTION FORM (DAILY/MONTHLY)

Ensure your mobile cranes are inspected properly by using this comprehensive inspection form. This form contains over 100 daily and monthly inspection criteria to help keep your cranes in good working condition. (Pad of 50).

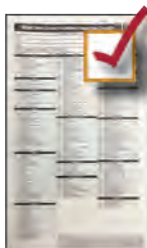
Item S1—1-9 pads: **R** \$12.00 **M** \$8.00  
10+ pads: **R** \$10.00 **M** \$7.50



### TOWER CRANE PRE-DELIVERY INSPECTION CHECKLIST

This checklist provides more than 220 items that should be reviewed prior to shipping a tower crane to a job site. Categories include internal climber, trolleys, outriggers jib, base, tower, turntable and boom hoist. (25 forms per pad. Includes a carbon copy. Size is 8.5X14)

Item S21 **R** \$17.00 **M** \$12.00



### LATTICE BOOM CRANE ANNUAL INSPECTION CHECKLIST

Safety is a daily concern, but annually a more thorough inspection is required. This includes more than 180 items to be inspected. In addition to a section for wire rope there is a chart for recording a load test as well as a deficiency report.

Item S17—1 set of 10: **R** \$17.00 **M** \$12.00



### TELESCOPING BOOM CRANE ANNUAL INSPECTION CHECKLIST

This checklist provides your inspectors a list of more than 165 items to inspect including hoists, hydraulics, boom and outriggers. Also included is a chart to record load test and a deficiency recommendation report.

Item S18—1 set of 10: **R** \$17.00 **M** \$12.00



## SIGNS/DECALS

### CRANE HAND SIGNALS POSTER DECAL—ENGLISH/SPANISH

Available in both English and Spanish (on one decal), with an illustration for each signal. The 11" x 16" decals are printed in black ink on durable white adhesive-backed vinyl, ideal for application to exterior painted metal equipment.

Item S13 1-29 copies: **R** \$5.50 **M** \$4.50  
30+ copies: **R** \$5.00 **M** \$4.00



### DEATH OVERHEAD DECAL

Taking the right safety precautions is crucial. Red and black weather-proof decal. (7" x 10")

Item S8—1-9 decals: **R** \$4.00 **M** \$3.00  
10+ decals: **R** \$3.00 **M** \$2.00



### SC&RA: "MEMBER" DECALS

These heavy duty decals are suitable for mounting on your equipment, showing the industry you are an SC&RA Member Company.

Item G3 3" x 3" Decal  
1-9 decals: \$2.00 25 pack: \$18.75  
Item G4 9" x 11" Decal  
1-9 decals: \$3.00 15 pack: \$22.50



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**M** = Member price



# PRODUCT INDEX



## PRODUCT CATALOG

### PERMIT MANUAL

State & Province Oversize/Overweight Permit Manual *(Digital Subscription)*

ITEM	RETAIL	MEMBER
T1	\$300.00	\$160.00

### EDUCATION/TRAINING

Forklift Rigging Attachments *(DVD+Book set)*  
 Forklift Rigging Attachments *(Book only)*  
 Glossary of Common Crane and Rigging Terms  
 Glossary of Common Crane and Rigging Terms *(Spanish)*  
 Operating Cranes Around Powerlines *(Set-DVD + Booklet)*  
 Operating Cranes Around Powerlines *(Booklet Only)*  
 Recommended Practices for Telescopic Hydraulic Gantry *(DVD+book)*  
 Recommended Practices for Telescopic Hydraulic Gantry *(Book Only)*  
 Specialized Transportation Driver Training DVD  
 Specialized Transportation Load Securement DVD  
 The Guide to Mobile Crane Safety Management *(English/Spanish/Portuguese)*

ITEM	RETAIL	MEMBER
F8B	\$119.00	\$89.00
F8W	\$39.00	\$29.00
CR5	\$14.95	\$12.95
CR5-S	\$14.95	\$12.95
PL-SET	\$195.00	\$150.00
PL_B	\$10.99	\$7.99
HGD	\$129.00	\$99.00
HG	\$69.00	\$49.00
S16D	\$195.00	\$150.00
S16B	\$195.00	\$150.00
CR3	\$199.00	\$99.00

### MEMBER DIRECTORY

Directory of Members and Equipment *(Print)*  
 Directory of Members and Equipment *(CD-electronic)*

ITEM	RETAIL	MEMBER
T7	\$115.00	\$50.00
T7A	\$499.00	\$145.00

### UNION AGREEMENTS

International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers  
 International Union of Operating Engineers  
 United Brotherhood of Carpenters and Joiners of America  
 MWA-M Agreement

See Agreement  
 See Agreement  
 See Agreement  
 See Agreement

### MEMBER

### INSPECTION FORMS/CHECKLISTS

Mobile Crane Pre-Job Safety Meeting Checklist *(Pad of 25)*  
 Tower Crane Pre-Delivery Inspection Checklist *(Pad of 25)*  
 Crane Safety Inspection Form *(Daily/Monthly)* *(Pad of 50)*  
 Lattice Boom Crane Annual Inspection Checklist *(Set of 10)*  
 Telescoping Boom Crane Annual Inspection Checklist *(Set of 10)*

ITEM	RETAIL	MEMBER
S20	\$17.00	\$12.00
S21	\$17.00	\$12.00
S1	\$12.00	\$8.00
S17	\$17.00	\$12.00
S18	\$17.00	\$12.00

### SIGNS/DECALS

Crane Safety Inspection Form *(Daily/Monthly)*  
 Death Overhead Decal  
 SC&RA Member Decals *(3x3)*  
 SC&RA Member Decals *(9x11)*

ITEM	RETAIL	MEMBER
S1	\$12.00	\$8.00
S8	\$4.00	\$3.00
G3	n/a	\$2.00
G4	n/a	\$3.00

### TRANSLATED PRODUCTS

Crane Hand Signal Poster Decal *(11x16)*  
 Crane Hand Signal Pocket Guide  
 Crane Hand Signals Mobile App  
 Glossary of Common Crane and Rigging Terms  
 The Guide to Mobile Crane Safety Management *(English/Spanish/Portuguese)*

ITEM	RETAIL	MEMBER
S13	\$5.50	\$4.50
S14	\$26.00	\$16.00
CR5	\$14.95	\$12.95
CR3	\$199.00	\$99.00

**R** = Retail price

**M** = Member price

# A team sport

Delicate insurance matters require working together for the best outcome possible.

Let's begin with an all-too-common scene. It's the start of another day. No one wants to hear that there was an accident at a jobsite involving one of your long-standing customer's employees, but that's exactly what has happened. The injuries are bad, too. The injured man was transported by ambulance to the hospital. At some point in the near future, you'll learn that he spends a week there.

You get to the jobsite right away and learn from the conversations you have that your operator was the cause of the accident. You pull out your phone and

call your insurance broker to report it. During your discussion, you ask that they make sure the assigned claims adjuster is aware that this is a long-time customer with whom you do quite a bit of work. There's a lot riding on you keeping your relationship with your customer intact and you need to make sure they know that.

## Working together

Delicate matters require teamwork for getting the best outcome possible. Situations like the one I just laid out require your claims adjuster to be sensitive to your business/client relationship. These sorts of situations require cooperation and understanding between everyone involved – you, the policyholder, your customer, and the insurance team assigned to the claim. The goal is to balance the interests of everyone involved to get to the best possible outcome.

So with that in mind, back to our scenario.

You and your broker present your claim to your insurer, which in this scenario is NBIS. The NBIS claims examiner gathers the facts and obtains the signed rental ticket between you and your customer. As expected, the injuries were indeed significant and a workers' compensation lien of \$182,500 is levied against your insurance policy.

But then something interesting happens. When the NBIS claims and legal teams review the signed rental agreement, they note a "Use of Equipment" provision which clearly states that your customer agreed to provide the exclusive direction, control, and supervision over anyone using the equipment on

“ Even today's technology of Zoom meetings could not replace the in-person sincerity and ability to recognize emerging concerns. ”

site. Furthermore, the NBIS investigation clearly shows that your operator was following the signals and direction of your customer's employee. Which means that everything has now changed.

## A valuable tool

As you can see from my fictional scenario, your rental ticket is a valuable tool in managing your risk. Where your

## THE AUTHOR

**Art Kirkner** has over 40 years of claims leadership, 10 years with NBIS. Throughout his time in the industry, he has built a reputation for driving a customer-service driven claims team.





right exists to transfer your defense and protection contractually and legally to another party, it simply must be done. In fact, your insurance company has a duty to pursue all available defenses on your behalf when providing you with a complete and full defense.

Again, keeping that in mind, let's get back to our story.

A meeting is arranged between you, your claims examiner, your customer, and your customer's insurance broker. The cause of the accident is quickly reviewed, along with the signed rental agreement, and the requirement to tender the defense and indemnity in the event a claim litigation should occur.

In the meeting, you're made aware of the fact that regardless of whether or not your operator caused the incident, you're entitled to the same workers' compensation immunity as your customer, who employed the injured worker.

After the meeting, it's agreed that NBIS, your insurer, will present, on your behalf, this "borrowed servant" defense to your customer's workers' compensation carrier to review. This valuable "borrowed servant" defense holds for the legal

proposition that your employee becomes a loaned employee to your customer, provided there is a contract with the customer agreeing to do so, and the actual facts show it was your customer's employee that was directing your operator. In such instances, workers' compensation becomes the sole remedy, and you are equally entitled to the same workers' compensation immunity as your customer enjoys when his employee is hurt on the job.

The customer's workers' compensation carrier faces a real risk of losing any chance of recovering any amount of its lien upon a judge's ruling that the borrowed servant criteria has been met and any action against your company is dismissed. With the agreement of all parties—and before this has escalated to a level that involved attorneys and protracted legal positions being taken—it is agreed that a compromise would be presented to the workers' compensation carrier.

### Balancing interests

The most important aspect of this claim scenario is the teamwork and mutual respect of each of the parties, even though

“ ‘Borrowed servant’ defense holds for the legal proposition that your employee becomes a loaned employee to your customer, provided there is a contract with the customer. ”

they had competing interests. The customer relationship was maintained with continued goodwill. The insurance company's rights under the policy were not jeopardized. And the customer agreed that they signed the rental agreement knowing its terms and conditions. Perhaps most importantly, even today's technology of Zoom meetings could not replace the in-person sincerity and ability to recognize emerging concerns of the customer and the insured as discussions progressed. ■



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# Maximizing insurance experience



**Lauren Fronczek** discusses navigating the complexities of commercial insurance.

**A**s a crane and rigging operator or specialized carrier, you understand the importance of having comprehensive insurance coverage to protect your operation from potential risks. However, navigating the complexities of commercial insurance can be daunting, leaving you wondering how to tailor your coverage to meet your specific needs. While it can be overwhelming, you should strive to maximize your insurance experience allowing you to optimize your coverage and make the most of your relationship with your insurance advisors.

**SEEK OUT A SPECIALIST:** Working with an agent who specializes in your industry is paramount to your success as they have extensive experience they can bring to the table. A knowledgeable agent will understand your business's intricacies, have access to specialized insurance products and be well-versed in the regulatory requirements specific to your operations. Establishing a strong relationship with a specialist will provide you with valuable guidance and support throughout the insurance process. You should work closely with your agent to ensure your policies adequately cover your operations, assets and potential liabilities.

**ASSESSING YOUR UNIQUE RISK:** Every crane, rigging and specialized operator has its own set of risks and exposures. Begin by conducting a thorough assessment to identify the specific hazards your

operation faces. Consider factors such as the types of jobs you focus on, the geographical areas in which you operate, the types of lifts and moves that you specialize in and the requirements that are necessary to enter specific contracts. Understanding your unique risks is crucial to ensuring that your insurance coverage adequately addresses potential vulnerabilities.

#### **TAILORING COVERAGE TO MEET YOUR NEEDS:**

Discuss your business' requirements with your insurance advisors and provide them with comprehensive information about your operations. Be upfront and honest with your advisors, sharing the good, the bad and the ugly. They will assess your risk profile and recommend suitable coverage options. Your agent can help you tailor your policy to include coverages to protect all aspects of your operation.

#### **UNDERSTANDING POLICY EXCLUSIONS AND LIMITATIONS:**

While it's essential to understand what your insurance policy covers, it's equally important to familiarize yourself with any exclusions and limitations that may apply. Policy exclusions are specific risks or situations that your insurance carrier will not cover. Limitations, on the other hand, are conditions that may restrict coverage or impose certain requirements. By having a clear understanding of these provisions, you can proactively manage your risks, implement necessary safety measures and explore alternative coverage options if needed.

#### **CONSIDER ALTERNATE INSURANCE PRODUCTS:**

Many operators are exploring alternative risk financing methods to manage their risk. Captive insurance, risk retention groups and self-insurance programs are gaining popularity as companies seek to control costs, tailor coverage to their specific needs and gain more control over their insurance costs by betting on themselves. These alternative risk

financing methods require a thorough understanding of the program you are joining, so be sure to take advantage of educational opportunities if you are exploring new options. Insurance carriers continue to innovate with new products to meet the unique needs of this industry. One example of this is National Interstate's Boomerang® program, which was designed for operators who want to take on a palatable level of risk but aren't ready to join a captive. Boomerang gives crane, rigging and specialized carriers the best of both worlds: the upfront cash flow advantages of a deductible program coupled with the control and potential rewards of a group alternative risk program. When considering new options, you should always consult with insurance professionals to assess feasibility and potential benefits specific to your company.

**REVIEWING YOUR POLICY REGULARLY:** The needs of your operation are subject to change over time. It is crucial to review your insurance policy regularly with your agent, especially when there are significant changes to your operations, equipment or regulations. Schedule periodic meetings with your agent to discuss modifications needed to align your coverage with your evolving needs. This proactive approach ensures that your policy remains up to date and continues to provide the comprehensive protection that you need.

#### **RISK MANAGEMENT AND LOSS CONTROL:**

An effective loss control program is instrumental in mitigating potential hazards and reducing claims. Collaboration with your insurance advisors to develop a comprehensive risk management strategy is key. This may involve implementing safety protocols, providing ongoing employee training, conducting regular equipment maintenance and performing thorough inspections. Demonstrating a commitment



## THE AUTHOR

**Lauren Fronczek** is assistant vice president of specialty transportation for National Interstate Insurance Company based in Richfield, OH. National

Interstate Insurance is rated "A+" (Superior) by A.M. Best.





**Applying robust risk management practices is crucial to continued success.**

to risk management can result in more favorable insurance terms and premiums. Applying robust risk management practices is crucial to your continued success. Conduct regular assessments of your operation, identifying potential risks and implementing preventative measures will minimize the likelihood and impact of losses. Pre and post-loss services can help you identify potential risks, implement preventative measures and identify trends.

**UNDERSTAND THE VALUE OF DATA:** Your insurance team may be able to provide meaningful insights that prove invaluable as you can consider where you need to improve, how you stack up to your competitors and where you shine. By working with industry specialists and experts you can find insurance allies that allow for anonymized data-sharing and benchmarking tools.

**TAKE ADVANTAGE OF DISCOUNTS AND SUBSIDIES:** Check with your insurance team to see if policies include subsidy or discount programs to help lower expenses. National Interstate offers several programs ranging from an Automated Event Recorder (AER) subsidy to discounts with Industrial Training International. Through proper utilization programs such as an AER program can reduce unsafe driving behaviors, mitigate claims costs and take a proactive approach to your safety program. Make it a priority to learn what is included with your insurance policy and take advantage of cost saving opportunities that better your operation.

**BUILDING A STRONG RELATIONSHIP WITH YOUR INSURANCE CARRIER:** While your agent is your primary point of contact, it is

beneficial to establish a strong relationship with your insurance carrier. Engage in open communication with your carrier to ensure they fully understand your business operations and risk management efforts. Working with an insurance carrier who specializes and understands the nuances specific to the needs of crane, rigging and specialized carriers only benefits you. Maintain detailed records of safety protocols, inspections and training programs, which can be shared with your carrier to showcase your commitment to safety and risk reduction. Building a relationship based on transparency and trust can pay off dividends in the long run.

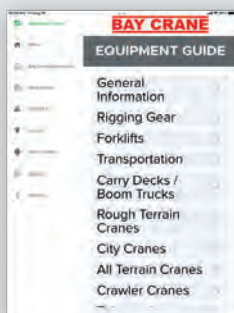
**INDUSTRY ADVOCACY:** It is crucial to consider the value of collaborating with insurance professionals who know and are deeply involved in your industry. Not only will they better understand your unique needs and intricacies of your business, but they can also help drive industry wide improvements through advocacy with organizations like the SC&RA and others.

Personalizing your insurance experience is essential for optimizing your coverage and ensuring adequate protection, while enabling your business to thrive. ■

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# Booming!

American Cranes & Transport's 18th annual **ACT100** index of North America's top crane-owning companies.

The **ACT100** index of North America's top crane-owning companies took a big jump in 2023, eclipsing the 3 million mark for a

total capacity of 3,080,314 tons capacity. The index added eight new companies and 527,719 tons capacity.

The retraction we saw last year was a blip apparently, with the top 10 companies seeing gains in capacity and fleet sizes over 2022. Last year the **ACT100** index was at 2,552,592. In 2021, the **ACT100** added 89,917 tons for a total index of 2,868,110. In 2020, the **ACT100** gained 159,537 tons of capacity for a total index of 2,778,193.

Maxim Crane Works is still number one, reporting an index of 896,661 tons. Maxim is not just the first company on the **ACT100**, but the first company by a

far margin in excess of 600,00 tons.

The top 10 crane companies stayed intact for the most part with Maxim, Bigge and All Erection keeping their top three spots. Buckner HeavyLift, Lampson International and Marmon Crane Services round out the top six. The top 10 ended up with Mammoet Americas at seven, TNT at eight, Barnhart at nine and Beyel Brothers at ten.

Big gainers this year include Bay Ltd, Lift Source Machinery, Atlas Crane Service, Big B Crane, Wagstaff, McRay, Rossco and Superior Cranes.

In 2023, the number of branches increased from 784 to 814. Last year, the

BY THE NUMBERS

## EMPLOYEES

71,131

## BRANCHES

814

## MOBILE CRANES

15,050

## CRAWLER CRANES

3,346

## TOTAL CAPACITY

3,080,314 tons

## NEWCOMERS

8

## ACT100 2024

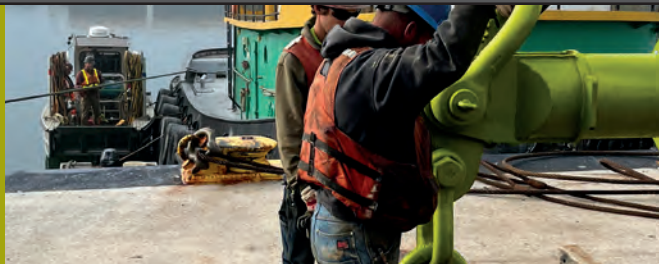
Submit information for the 2024 **ACT100** by emailing: [d.ann.shiffler@khl.com](mailto:d.ann.shiffler@khl.com) or [hannah.sundermeyer@khl.com](mailto:hannah.sundermeyer@khl.com).

## Top 10 largest crawler fleets

RANK 2023	COMPANY NAME	WEBSITE	CRAWLER FLEET	ACT INDEX
1	Maxim Crane Works	<a href="http://maximcrane.com">maximcrane.com</a>	428	896,661
2	Bigge Crane and Rigging Company	<a href="http://bigge.com">bigge.com</a>	398	251,460
3	Lampson International	<a href="http://lampsoncrane.com">lampsoncrane.com</a>	393	128,768
4	ALL Family of Companies	<a href="http://allcrane.com">allcrane.com</a>	301	153,609
5	Buckner HeavyLift Cranes	<a href="http://bucknercompanies.com">bucknercompanies.com</a>	178	132,812
6	Mammoet Americas	<a href="http://mammoet.com">mammoet.com</a>	136	99,689
7	W.O. Grubb Crane Rental	<a href="http://wogrubb.com">wogrubb.com</a>	125	68,917
8	J.F. Lomma Inc.	<a href="http://jflommainc.com">jflommainc.com</a>	104	40,456.50
9	Sarens USA	<a href="http://sarens.com">sarens.com</a>	100	35,842
10	Marmon Crane Services	<a href="http://marmoncranes.com">marmoncranes.com</a>	94	125,406

RANK 2023	RANK 2022	COMPANY NAME	HQ	BRANCHES	EMPLOYEES	SCOPE OF OPERATION	SENIOR CONTACT & TITLE
1	1 ▶	Maxim Crane Works	USA	53	3,218	National	Paul McDonnell, CEO
2	2 ▶	Bigge Crane and Rigging Company	USA	26	1,018	National	Weston Settlemier, President/CEO
3	3 ▶	ALL Family of Companies (ALL Erection & Crane Rental)	USA	31	1,600	Worldwide	Michael L. Liptak, President
4	4 ▶	Buckner HeavyLift Cranes	USA	3	250	Worldwide	Douglas Williams, President/Chairman
5	6 ▲	Lampson International	USA	7	300	Worldwide	William Lampson, President
6	5 ▼	Marmon Crane Services	USA	52	2,175	Worldwide	Tim Benjamin, President
7	7 ▶	Mammoet Americas	USA	24	3,000	Worldwide	Paul van Gelder, CEO
8	8 ▶	TNT Crane & Rigging	USA	44	1,750	National	Mark Irion, CEO
9	9 ▶	Barnhart Crane & Rigging	USA	56	1,700	National	Alan Barnhart, CEO
10	10 ▶	Beyel Brothers	USA	9	400	Regional	Joseph D. Beyel, President
11	12 ▲	W.O. Grubb Crane Rental	USA	12	500	National	Doug Adkins, Director of Fleet Operations
12	21 ▲	Bay Ltd.	USA	5	4,500	Worldwide	Berry Peterson, Vice President
13	11 ▼	Deep South Crane & Rigging	USA	7	640	USA	Mitch Landry, President
14	13 ▼	Bragg Companies	USA	15	1,414	National	Bill Green, Vice President
15	14 ▼	Sterett Crane & Rigging	USA	12	185	National	William Sterett III, President
16	15 ▼	J.F. Lomma Inc.	USA	8	180	Worldwide	Frank Signorelli, COO
17	18 ▲	Sarens USA	USA	14	200	Worldwide	Lee Rowe, Regional Director
18	26 ▲	Lift Source Machinery	USA	1	10	Worldwide	Don Udelson, CEO
19	17 ▼	ML Crane Group	USA	8	413	National	Dave Matz, President
20	19 ▼	Mountain Crane Service	USA	8	329	National	Paul Belcher, CEO
21	23 ▲	Allegiance Crane & Equipment	USA	12	550	Regional	Justin Romero, CEO
22	20 ▼	NCSG Crane and Heavy Haul	CANADA	9	375	National	Heather MacCallum, President & CEO
23	36 ▲	Atlas Crane Service Inc.	USA	5	145	National	Zach Prentis, CEO
24	25 ▲	Superior Cranes Inc.	USA	15	422	Worldwide	Joe Everett, President
25	22 ▼	Scott-Macon Equipment	USA	8	200	Worldwide	Allan Woodruff, Executive Vice President
26	24 ▼	Marco Crane & Rigging	USA	7	261	National	Dan Mardian, Jr., President
27	27 ▶	Stevenson Crane Service	USA	4	238	National	Donna Stevenson, President
28	32 ▲	Big B Crane	USA	3	194	Regional	Daniel Basden, President
29	28 ▼	RMS Cranes	USA	5	320	Regional	Michael Willenborg, President
30	31 ▲	Fagioli Inc. (USA)	USA	4	152	Worldwide	Edoardo Ascione, President
31	29 ▼	Northwest Crane Service	USA	11	134	Worldwide	Andy Hodges, President
32	30 ▼	NessCampbell Crane + Rigging	USA	10	350	Regional	John Anderson, President
33	35 ▲	Davis Crane Companies	USA	10	350	Regional	Dennis Davis, President/CEO
34	39 ▲	Wagstaff Crane & Rigging	USA	1	119	Regional	Judd Wagstaff, Manager
35	43 ▲	Reliable Crane Service	USA	5	235	Regional	Darrell Shaw, CEO
36	34 ▼	Joyce Crane	USA	6	167	Regional	Joe Bob Joyce, President
37	33 ▼	Dielco Crane Service	USA	1	128	Regional	David Dieleman, President
38	37 ▼	Custom Truck One Source	USA	36	2,300	National	Ryan McMonagle, CEO
39	38 ▼	Dozier Crane and Machinery	USA	4	65	Worldwide	Gary Goodwin, Vice President
40	47 ▲	McRay Crane & Rigging	USA	1	62	Regional	Calvin Jones, Executive Director
41	40 ▼	Mr. Crane	USA	4	200	National	Andy M. Steinberg, President & CEO
42	45 ▲	Digging and Rigging	USA	6	228	Regional	James Gregory, Jr., President

EDITOR'S NOTE: Every attempt was made to assure the information in the ACT100 is correct and accurate. The editors of ACT and employees of KHL Group Americas do not assume responsibility for errors, omissions or erroneous information.





WEBSITE	MOBILE CRANES	CRAWLER CRANES	LARGEST CRANE	CAPACITY	ACT INDEX
maximcrane.com	1,753	428	Manitowoc 31000	2,535	896,661
bigge.com	1,143	398	Liebherr LR 11000	1,100	251,460
allcrane.com	1,597	301	Liebherr LR 11000	1,200	153,609
bucknerheavylift.com	10	178	Liebherr LR 13000	3,307	132,812
lampsoncrane.com	65	393	Lampson Transi-Lift LTL-3000	3,000	128,768
marmoncranes.com	996	94	Liebherr LTM1700-9.1	900	125,406
mammoet.com	530	136	Mammoet PTC 200	5,000	99,689
tntcrane.com	619	63	Liebherr LTM 1750-9.1	900	97,534
barnhartcrane.com	511	51	Demag CC8800	1,375	91,651
beyel.com	235	61	Manitowoc 21000	1,000	70,315
wogrubb.com	290	125	Liebherr LR 1750/2	825	68,917
bayltd.com	210	26	Liebherr LTM 11200-9.1	1,500	63,270
deepsouthcrane.com	265	29	VersaCrane TC 36000/2	3,000	57,575
braggcompanies.com	381	56	Liebherr LR 11000	1,100	55,222
sterettcrane.com	184	34	Liebherr LTM-1650 8.1	770	44,675
jflomainc.com	112	104	Manitowoc MLC 650 with VPC Maxer & Luffer	770	40,457
sarens.com	150	100	SGC-250	5,500	35,842
LSMcrane.com	118	24	Liebherr LTM 1750	900	35,065
mlcranegroup.com	143	29	Liebherr LTM 1750-9.1	900	33,792
mountaincrane.com	99	41	Liebherr LR 11000	1,100	31,638
allegiancecrane.com	207	8	Demag AC0700-9	800	30,348
ncsg.com	157	27	Liebherr LTM 11200-9.1	1,200	29,975
atlascraneserviceinc.com	79	24	Liebherr LR 11000	1,200	28,730
superiorcranes.com	161	19	Demag CC6800-1	1,375	28,226
smequipment.com	418	45	Tadano GTC-2000	172	27,374
marcocrane.com	209	29	Grove GMK 7550 w/Megawing	550	27,072
stevensoncrane.com	192	41	Liebherr LR 1500	500	25,868
bigbcrane.com	59	47	Liebherr LTM 1750-9.1	900	23,163
rmscranes.com	93	28	Liebherr LTM 1750-9.1	900	22,067
fagioli.com	10	15	Liebherr LR 13000	3,307	19,000
northwestcraneservice.com	41	6	Liebherr LR 11000	1,200	18,830
nesscampbell.com	116	9	Liebherr LTM 1500-8.1	600	18,828
daviscrane.com	162	3	Liebherr LTM 1650-8.1	770	15,399
wagstaffcrane.com	79	11	Liebherr LTM 1750-9.1	900	14,673
reliablecraneservice.com	112	16	Liebherr LR 1600-2	660	14,578
joycecrane.com	101	1	Liebherr LTM 1750-9.1	900	14,527
dielcocrane.com	70	18	Liebherr LR 1600/2	660	14,270
customtruck.com	300	0	Load King 80-160	80	13,500
doziercrane.com	101	38	Kobelco CK 3300G-2	330	13,212
mcraycrane.com	39	1	Liebherr LTM 1300-6.2	365	12,950
mrcrane.com	59	22	Manitowoc 2250 w/Maxer	500	12,817
digrig.com	75	3	Liebherr LTM 1750-9.1	900	12,305

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RANK 2023	RANK 2022	COMPANY NAME	HQ	BRANCHES	EMPLOYEES	SCOPE OF OPERATION	SENIOR CONTACT & TITLE
43	44 ▲	CraneWorks	USA	4	280	Regional	Kenny Bishop, President
44	41 ▼	Kelley Equipment of Florida	USA	2	150	Regional	Daniel H. Gold, CEO
45	46 ▲	Vic's Crane & Heavy Haul	USA	5	250	National	Nate Jasper, Director of Business Development
46	42 ▼	Circle 8 Crane Services	USA	5	150	Regional	Arnold Mabee, CEO
47	48 ▲	Boss Crane & Rigging	USA	5	250	National	Richard Miller, President
48	NEW	Roll Group Americas	USA	4	300	Worldwide	Peter Rondhuis, CEO
49	47 ▼	Irving Equipment	CANADA	7	133	National	Alan Mansfield, General Manager
=50	49 ▼	Ideal Crane Rental	USA	6	100	Regional	Robert Kalhagen, President
=50	53 ▲	Edwards Inc.	USA	7	600	Regional	Jamie Ezzell, Crane Division Manager
51	89 ▲	Southwest Industrial Rigging	USA	4	195	National	Harry Baker, President
52	50 ▼	Allison Crane & Rigging	USA	5	185	National	Larry Allison Jr., President
53	51 ▼	CraneWorks Inc.	USA	9	210	Worldwide	Keith Ayers, CEO
54	52 ▼	Kirby-Smith Machinery	USA	12	600	National	Rickey Bailey, Vice President Crane Division
55	58 ▲	G. A West/Legacy Equipment	USA	6	1,500	National	Gary A. West, President
56	55 ▼	Thackray Crane Rental	USA	5	135	Regional	Steve Stunder, CEO
57	54 ▼	R.H. Marlin	USA	1	75	Regional	Joe Fox, Vice President
58	56 ▼	Hill Crane Service	USA	3	137	Regional	Ronald Hill, CEO
59	54 ▼	Budrovich Contracting	USA	4	100	Regional	Eric Struckhoff, Vice President
60	57 ▼	J J Curran Crane	USA	2	31	Regional	Jeff Curran, President
61	60 ▼	Alamo Crane Services	USA	2	75	Regional	Marvin Ohlenbusch, COO
62	59 ▼	Crane Service Company	USA	7	182	Regional	Brian Mazzella, Vice President
63	58 ▼	Blue Hat Crane & Equipment Rental	USA	6	125	National	Mike Palendat, Equipment Operations Director
64	59 ▼	Amherst Crane Rentals	CANADA	6	105	Regional	Chris Welstead, Vice President
65	61 ▼	Phoenix Crane Service	USA	3	92	Regional	Mike Knott, Vice President Operations
66	62 ▼	Giuffre Bros. Cranes	USA	2	27	Worldwide	Todd Proctor, General Manager
67	65 ▼	Connelly Crane Rental	USA	3	50	Regional	Michael Connelly, President
68	NEW	McNally-Nimergood Company	USA	1	30	National	Jeff McNally, President
69	63 ▼	Superior Rigging & Erecting Company	USA	3	275	National	Patrick Lewis, President/CEO
70	69 ▼	RKM Crane Services	CANADA	4	50	Regional	Matthew Blackwell, General Manager
71	68 ▼	Landwehr Construction	USA	2	200	National	Nathan Landwehr, President
72	67 ▼	Padgett	USA	1	150	Regional	Aaron Pike, Crane Rental Manager
73	71 ▼	Continental Crane/Ozark Crane	USA	3	40	Regional	Todd Eads, President
74	74 ►	Omega Morgan	USA	8	550	National	Erik Zander, COO
75	73 ▼	Custom Service Crane	USA	5	60	Regional	Randy Huffman, Vice President
76	NEW	The Boldt Company	USA	18	654	National	John W. Wozniak III
77	75 ▼	I.B. Dickinson & Sons	USA	3	45	Regional	Donald Dickinson, President
78	81 ▲	Rossco Crane & Rigging	USA	1	65	Regional	Ross Kovach, Vice President
=79	77 ▼	General Steel Crane & Rigging	USA	4	44	Regional	Jeff Noland, President
=79	76 ▼	Patriot Crane & Rigging*	USA	3	145	Regional	Scott "Sham" Shamburg, President
80	78 ▼	Anglemyer Crane	USA	1	36	Regional	John Anglemyer, President
81	82 ▲	D-Crane Rental	USA	2	30	Regional	Rob Domaschko, Owner
82	NEW	Dobbs Crane Service	USA	1	19	Regional	Chris Dobbs

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WEBSITE	MOBILE CRANES	CRAWLER CRANES	LARGEST CRANE	CAPACITY	ACT INDEX
craneworks.com	140	4	Liebherr LTM 1400-7.1	500	12,000
kelleyequipment.com	51	25	Demag AC500-2	600	11,400
vicsco.com	91	4	Demag 2800	660	11,075
circle8services.com	59	0	Grove GMK 6300L	350	10,792
bosscrane.com	48	11	Liebherr LTM 1750-9.1	900	10,770
roll-group.com	1	22	LR 11350	1,350	10,440
irvingequipment.com	73	15	Liebherr LR 1700	770	10,108
idealcranerental.com	78	17	Liebherr LTM 1450-8.1	550	9,763
edwardsinc.com	107	6	Demag AC 500-2	600	9,763
swirusa.com	82	6	Liebherr LTM 1650-8.1	770	9,695
allisoncrane.com	46	2	Terex AC 500/1	625	8,420
crane-works.com	311	4	Tadano Demag AC 220-5	245	8,100
kirby-smith.com	130	7	Manitowoc MLC 300	386	8,025
legacy-equipment.com	31	28	Manitowoc 16000 w/Maxer	440	7,922
thackraycrane.com	96	5	Liebherr LTM 1400-7.1	500	7,914
rhmarlin.com	80	15	Grove GMK 7550	550	7,800
hillcrane.com	65	2	Liebherr LTM 1400-7.1	500	7,371
budrovich.com	73	6	Grove GMK 7550	550	7,020
jjcurran.com	67	1	Grove GMK 6400	450	6,958
alamocrane.com	42	2	Liebherr LTM 1500-8.1	600	6,747
craneserviceco.com	33	5	Liebherr LTM 1650-8.1	770	6,679
bluehatcrane.com	49	15	Grove GMK 7550	550	6,589
amherstgroup.ca	65	1	Liebherr LTM1400	500	6,485
phoenixcrane.com	62	0	Grove GMK 5250L	300	5,650
giuffre.com	174	0	Liebherr LTM 1090/2	110	5,270
connellycrane.com	56	8	Liebherr LTM 1350-6.1	400	4,695
mcnallycrane.com	27	0	Liebherr LTM 1750-9.1	900	4,480
superiorrigging.com	37	8	Liebherr LTM 1300 6-2	360	4,472
rkmcrane.com	31	1	Liebherr LTM 1400-7.1	500	4,220
landwehrconstruction.com	16	7	Demag AC 350-6	400	4,195
padgett-inc.com	35	4	Grove GMK 6300L	350	3,831
cranework.us	21	0	Demag AC500-2	600	3,577
omegamorgan.com	16	3	Grove GMK 7450	550	3,340
customservicecrane.com	33	0	Liebherr LTM 1450-8.1	550	3,338
boldt.com	34	9	Manitowoc 2250	300	3,250
ibdickinson.com	22	0	Liebherr LTM 1400-7.1	500	3,133
rosscocrane.com	20	0	Demag AC6300-1	350	3,097
gen-steel.com	30	0	Grove GMK 6400	450	2,887
patriotnation1.com	24	2	Liebherr 1450-8.1	550	2,340
anglemeyercrane.com	24	0	Grove GMK 6300L-1	350	2,340
d-cranerental.com	23	0	Grove GMK 6300L-1	350	2,315
dobbscrane@jldobbs.com	16	1	Liebherr LTM 1350 6.1	400	2,133

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RANK 2023	RANK 2022	COMPANY NAME	HQ	BRANCHES	EMPLOYEES	SCOPE OF OPERATION	SENIOR CONTACT & TITLE
83	79 ▼	Taylor Crane & Rigging	USA	2	115	National	Jim C. Taylor, Jr., Founder & President
84	80 ▼	Iron Stag Crane Service	USA	1	28	Regional	Ned Eisenhart, President
85	83 ▼	Greiner Industries	USA	2	285	Regional	Frank Greiner, President
=86	86 ►	JK Crane	USA	1	15	Regional	Jennifer Gabel, CEO
=86	87 ▲	Diamond Steel Construction	USA	1	100	Regional	David L. Collins, President
87	85 ▼	Industrial Truck & Crane	USA	1	13	Regional	Soni S. Graff, President
88	91 ▲	Mansfield Crane Service Corp.	USA	2	25	Regional	Trapper Wyman, Owner
89	88 ▼	AME Inc.	USA	4	150	Worldwide	Jeff Campbell, President
90	92 ▲	PSC Crane & Rigging	USA	3	200	National	Randy Sever, Executive Vice President
91	NEW	Benchley Contracting & Rental	USA	2	20	Regional	Andrew Benchley, Vice President
92	90 ▼	JCrane Inc.	USA	2	36	Regional	Jack Stull, President
93	93 ►	Burkes Crane Rental	USA	5	700	Regional	James Carpenter, Project Manager Crane Rental
94	94 ►	Modern Construction	USA	1	20	Regional	Dwayne Scaif, President
95	95 ►	Waggoner Equipment Rental	USA	1	38	Regional	Alana Yount, Owner
96	NEW	Hampton Crane Service	USA	1	35	National	Lance D. Carney, President
97	NEW	Zartman Equipment Rental	USA	1	16	Regional	Timothy W. Clark
98	NEW	Yellowstone Crane & Rigging	USA	1	10	National	Luke Umfress, CEO and Owner
99	99 ►	Desrochers Crane Service	USA	1	5	Regional	Robert Desrochers, Director
100	100 ►	Advanced Rigging & Moving	USA	1	25	Regional	Matthew Hinty, President

number of branches increased to 784 from 760 in 2021.

The employee count for the **ACT100** surpassed all bounds with 71,131 employees, some 30,000 higher than last year and the highest employee count ever. In 2022, the number of employees on the **ACT100** was 41,032 people, as opposed to 36,987 in 2021. Employee counts of the **ACT100** have ebbed and flowed over the past five years.

The 2022 index showed 3,129 crawler cranes. This year that number grew to 3,346. In 2021, the index showed 3,288 crawler cranes.

The only category that fell in 2023 was mobile cranes. This year our **ACT100** reported 15,050 mobile cranes, some 507 less than last year. In 2022, there were 15,557 mobile cranes reported on the list as compared to 16,351 mobile cranes in 2021.

Mergers and acquisitions continue to impact the **ACT100**, although the activity wasn't as extreme as past years.

The top 25 stayed pretty much the same, with a few trading spaces here and there. The largest new company to enter the

**ACT100** is Roll Group Americas at Number 48 with an index of 10,440.

The largest crawler crane fleet in North America is owned by Maxim Crane Works with 428 crawler cranes. Bigge follows with 398 crawlers and Lampson with 393.

Maxim still has the largest mobile crane fleet with 1,753 units. ALL is next with 1,597 and Bigge follows with 1,143.

The largest cranes on the **ACT100**

are Sarens' SGC-250 and Mammoet Americas' PTC 200, both with 5,000 tons capacity. Fagioli and Buckner HeavyLift both have Liebherr LR 13000s with 3,307 tons capacity.

Deep South and Lampson have the Transi-Lift 3000 and the VersaCrane TC 36000/2, posting capacities of 3,000 tons respectively. Maxim owns the 2,535-ton Manitowoc 31000.

## Top 10 largest mobile fleets

RANK 2023	COMPANY NAME	WEBSITE	MOBILE FLEET	ACT INDEX
1	Maxim Crane Works	maximcrane.com	1,753	896,661
2	ALL Family of Companies	allcrane.com	1,597	153,609
3	Bigge Crane and Rigging Company	bigge.com	1,143	251,460
4	Marmon Crane Services	marmoncranes.com	996	125,406
5	TNT Crane & Rigging	tntcrane.com	619	97,534
6	Mammoet Americas	mammoet.com	530	99,689
7	Barnhart Crane & Rigging	barnhartcrane.com	511	91,651
8	Scott-Macon Equipment	smequipment.com	418	27,374
9	Bragg Crane Service	braggcrane.com	381	55,222
10	CraneWorks	crane-works.com	311	8,100

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WEBSITE	MOBILE CRANES	CRAWLER CRANES	LARGEST CRANE	CAPACITY	ACT INDEX
taylorcrane.com	21	3	Liebherr LTM 1220-5.2	265	<b>2,022</b>
ironstagcrane.com	12	0	Liebherr LTM 1450-8.1	550	<b>1,960</b>
greinerindustries.com	13	0	Demag AC 500-8	600	<b>1,825</b>
jkcrane.com	15	2	Demag AC300-6	350	<b>1,711</b>
diamondsteel.com	33	0	Grove GMK 275	275	<b>1,711</b>
itccrane.com	19	0	Grove GMK 6300L	350	<b>1,699</b>
mansfieldcrane.com	10	0	Grove GMK 6300L-1	350	<b>1,600</b>
ameonline.com	19	0	Grove GMK 5250-L	300	<b>1,565</b>
pscind.com	18	0	Liebherr LTM1250-5.1	300	<b>1,504</b>
benchleycrane.com	13	0	Liebherr LTM 1350 6.1	400	<b>1,490</b>
jcrane.com	11	0	Liebherr LTM 1300-6.2	360	<b>1,409</b>
burkescranerental.com	26	0	Grove GMK 5250L	300	<b>1,330</b>
moderncraneinc.com	11	1	Grove GMK 5275	275	<b>1,317</b>
waggonerequipment.com	26	0	Link-Belt RTC 80160	160	<b>1,306</b>
hamptoncrane.com	10	0	Liebherr LTM 1250-5.1	300	<b>1,000</b>
zartman.com	10	0	Grove 5250	300	<b>929</b>
yellowstonecrane.com	5	0	Liebherr LTM 1200-5.1	240	<b>595</b>
desrochersinc.com	6	0	Link-Belt HTC86100	100	<b>294</b>
advanced-rigging.com	9	0	Grove 1012	18	<b>137</b>

## Top 10 largest cranes

RANK 2023	COMPANY NAME	LARGEST CRANE	CAPACITY
1	<b>Sarens USA</b>	SGC-250	<b>5,500</b>
2	<b>Mammoet Americas</b>	Mammoet PTC 200	<b>5,000</b>
=3	<b>Fagioli Inc. (USA)</b>	Liebherr LR 13000	<b>3,307</b>
=3	<b>Buckner HeavyLift Cranes</b>	Liebherr LR 13000	<b>3,307</b>
=4	<b>Lampson International</b>	Lampson Transi-Lift LTL-3000	<b>3,000</b>
=4	<b>Deep South Crane &amp; Rigging</b>	VersaCrane TC 36000/2	<b>3,000</b>
5	<b>Maxim Crane Works</b>	Manitowoc 31000	<b>2,535</b>
6	<b>Bay Ltd.</b>	Liebherr LTM 11200-9.1	<b>1,500</b>
=7	<b>Barnhart Crane &amp; Rigging</b>	Demag CC8800	<b>1,375</b>
=7	<b>Superior Cranes</b>	Demag CC6800-1	<b>1,375</b>
=8	<b>NCSG Crane and Heavy Haul</b>	Liebherr LTM 11200-9.1	<b>1,350</b>
=8	<b>Roll Group Americas</b>	LR 11350	<b>1,350</b>
=9	<b>ALL Family of Companies</b>	Liebherr LR 11000	<b>1,200</b>
=9	<b>Atlas Crane Service</b>	Liebherr LR 11000	<b>1,200</b>
=9	<b>Northwest Crane Service</b>	Liebherr LR 11000	<b>1,200</b>
=10	<b>Bigge Crane and Rigging Company</b>	Liebherr LR 11000	<b>1,100</b>
=10	<b>Bragg Crane Service</b>	Liebherr LR 11000	<b>1,100</b>
=10	<b>Mountain Crane Service</b>	Liebherr LR 11000	<b>1,100</b>

## Our methodology

We sent surveys to close to 500 companies in the U.S., Canada and Mexico. While the **ACT100** is much more comprehensive than it was when we started it 18 years ago, we realize there are probably 10 to 15 major crane-owning companies not represented. Some companies do not want to share information about their fleets, and we respect their decision.

This year we were 100 percent with 103 companies submitting forms. There are three ties and one company with an asterisk, shown as an estimate.

As stated previously, in the largest crane category, different capacities may be listed for the same machine. We rely on the information supplied to us in determining these capacities as rigging variables can change the capacity of the crane.

Because the vast majority of crane-owning companies are privately held, it can be difficult to obtain and verify figures, although we do approach independent industry sources for assistance and use related web resources and research when we use an estimate.

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## Top20 largest fleet size

RANK 2023	ACT 100	COMPANY NAME	HQ	ACT INDEX	TOTAL FLEET
1	1	Maxim Crane Works	USA	896,661	<b>2,181</b>
2	3	ALL Family of Companies	USA	153,609	<b>1,898</b>
3	2	Bigge Crane and Rigging Company	USA	251,460	<b>1,541</b>
4	5	Marmon Crane Services	USA	125,406	<b>1,090</b>
5	7	TNT Crane & Rigging	USA	97,534	<b>682</b>
6	6	Mammoet Americas	USA	99,689	<b>666</b>
7	8	Barnhart Crane & Rigging	USA	91,651	<b>562</b>
8	23	Scott-Macon Equipment	USA	27,374	<b>463</b>
9	4	Lampson International	USA	128,768	<b>458</b>
10	13	Bragg Crane Service	USA	55,222	<b>437</b>
11	10	W.O. Grubb Crane Rental	USA	68,917	<b>415</b>
12	51	CraneWorks	USA	8,100	<b>315</b>
13	38	Custom Truck One Source	USA	13,500	<b>300</b>
14	9	Beyel Brothers	USA	70,315	<b>296</b>
15	12	Deep South Crane & Rigging	USA	57,575	<b>294</b>
16	16	Sarens USA	USA	35,842	<b>250</b>
17	24	Marco Crane & Rigging	USA	27,072	<b>238</b>
18	11	Bay Ltd.	USA	63,270	<b>236</b>
19	25	Stevenson Crane Service	USA	25,868	<b>233</b>
20	14	Sterett Crane & Rigging	USA	44,675	<b>218</b>

### Disclaimer

We rely on the integrity of the companies that participate, wholly assuming that the information they provide is accurate and truthful to

the best of their knowledge.

We work to ensure the accuracy of the information provided but take no responsibility for errors or omissions. We will continue to work to make the

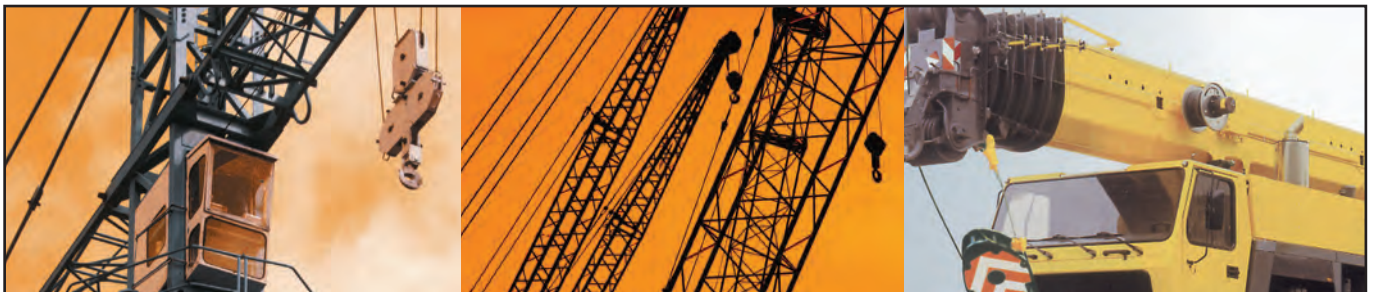
## ACT Top Lists

American Cranes & Transport presents four top lists each year. Our June issue features the largest list, the **ACT100** list of North America's largest crane-owning companies. In the August issue is the **ACTTOWERCRANE50**; in the November/December issue is the **ACTTRANSPORT50** and in the March issue is the **ACTSPECIALIZED LIFTING50**.

If you would like to participate in any or all these lists please email – D. Ann Shiffler, editor: [d.ann.shiffler@khl.com](mailto:d.ann.shiffler@khl.com) or, Hannah Sundermeyer, deputy editor: [hannah.sundermeyer@khl.com](mailto:hannah.sundermeyer@khl.com).

**ACT100** the most comprehensive list of crane-owning companies in North America.

Companies are ranked by their **ACT100** Index, which is calculated by adding together the maximum lifting capacities in U.S. tons of all crawler cranes and mobile cranes in a company's fleet.



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Omega Morgan moved a 500,000-pound, fully assembled Hitachi mine shovel using 10 lines of TII K25 SPMT. PHOTO: OMEGA MORGAN

# Riding high

**ACT**'s exclusive ranking of North America's largest specialized transportation companies.

**A**fter two years of charting growth, the 2023 **ACTTRANSPORT50** has seen a bit of a retraction in total fleet size. The cause for this dip can be attributed to a sell off of tractor/trucks over the past year. Other indexes of the **ACTTRANSPORT50** show growth, including number of employees, number of specialized trailers and the overall capacity of

the **ACTTRANSPORT50**, which is up to 2,061,188 from 1,171,807 in 2022. Growth in the

**ACTTRANSPORT50** has been modest this year. The specialized transport sector appears to have

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## TOP 10 ACTTRANSPORT50 BY TOTAL CAPACITY OF FLEET

	2023 RANK	COMPANY NAME	TOTAL CAPACITY US TONS
	1	3 All Erection & Crane Rental	101,825
	2	1 Landstar Transportation Logistics	90,740
	3	2 Daseke	87,469
	4	11 Mammoet North America	83,263
	5	7 Barnhart Crane & Rigging	71,293
	6	4 ATS Specialized	61,356
	7	5 Maxim Crane Works	56,207
	8	6 Bennett Motor Express	49,955
	9	12 Emmert International	39,822
	10	10 HWH Transport	37,250

\* ACT estimate

	2021	2022	2023
<b>TOTAL FLEET SIZE</b>	53,471	55,239	<b>53,949</b>
<b>TOTAL CAPACITY</b>	1,244,376	1,171,807	<b>2,061,188</b>
<b>NUMBER OF TRUCK/TRACTORS</b>	23,963	24,677	<b>22,943</b>
<b>NUMBER OF EMPLOYEES</b>	29,864	29,809	<b>32,548</b>
<b>NUMBER OF TERMINALS</b>	2,312	2,239	<b>2,228</b>
<b>NUMBER OF MODULAR/HYDRAULIC PLATFORM TRAILERS/DOLLIES IN FLEET</b>	8,141	8,591	<b>9,080</b>
<b>CAPACITY OF MODULAR/HYDRAULIC PLATFORM TRAILERS/DOLLIES IN FLEET</b>	428,712 tons	429,301 tons	<b>437,851 tons</b>
<b>NUMBER OF SPECIALIZED TRAILERS (INCLUDING ALL MULTI-AXLE UNITS) IN FLEET</b>	22,564	23,050	<b>23,024</b>
<b>TOTAL CAPACITY OF SPECIALIZED TRAILERS (INCLUDING ALL MULTI-AXLE UNITS) IN FLEET</b>	817,018 tons	759,555 tons	<b>773,734 tons</b>

BY THE NUMBERS

2023 RANK	2022 RANK	COMPANY NAME	CITY STATE	# OF TERMINALS	SCOPE OF OPERATION	# OF EMPLOYEES	SENIOR CONTACT
1	1	<b>Landstar Transportation Logistics</b>	Jacksonville, FL	1,400	International	1,449	Rusty Cody, vice president, heavy specialized services
2	2	<b>Daseke Inc.</b>	Addison, TX	109	International	4,608	Scott Hoppe, COO
3	5	<b>ALL Family of Companies</b>	Independence, OH	33	International	1,600	Michael L. Liptak, president
4	3	<b>ATS Specialized</b>	St. Cloud, MN	11	International	1,562	Lyle Jankee, vice president/general manager
5	4	<b>Maxim Crane Works</b>	Wilder, KY	53	National	2,866	Paul McDonnell, CEO
6	6	<b>Bennett Motor Express</b>	McDonough, GA	170	International	300	David Lowry, CEO
7	7	<b>Barnhart Crane &amp; Rigging</b>	Memphis, TN	59	National	1,700	Alan Barnhart, CEO
8	8	<b>Combined Transport</b>	Central Point, OR	1	International	627	Michael S. Card, president
9	10	<b>Deep South Crane &amp; Rigging</b>	Baton Rouge, LA	7	International	700	Mitch Landry, president
10	NEW	<b>HWH Transport</b>	Tampa, FL	8	Regional	65	Clint Smith, general manager
11	12	<b>Mammoet North America</b>	Rosharon, TX	21	International	1,500	John Halfweeg, managing director
=12	13	<b>ML Crane Group *</b>	Albuquerque, NM	10	National	510	Dave Matz, president
=12	14	<b>Transport Bellemare International</b>	Trois-Rivieres, Quebec City, Canada	7	International	680	Jean-Luc Bellemare, president
=12	15	<b>Emmert International</b>	Clackamas, OR	3	International	92	Terry W. Emmert, president
13	16	<b>Fagioli USA</b>	Manvel, TX	4	International	118	Edoardo Ascione, president
14	17	<b>Daily Express</b>	Carlisle, PA	6	International		Matt Rea, vice president, operations
15	19	<b>Bragg Companies</b>	Long Beach, CA	15	National	250	Eric Peterson, general manager
16	20	<b>Bigge Crane &amp; Rigging</b>	San Leandro, CA	26	National	1,008	Weston Settlemier, president/CEO
17	18	<b>Tradelossa</b>	Durango, DGO, Mexico	7	International	278	Carlos Carcamo Duran, sales director
18	21	<b>Edwards Moving &amp; Rigging</b>	Shelbyville, KY	6	International	105	Jason Edwards, CEO
19	22	<b>NCSG Crane &amp; Heavy Haul</b>	Acheson, Alberta, Canada	10	National	400	Heather MacCallum, president
20	23	<b>Northwest Logistics</b>	Oklahoma City, OK	9	International	244	Andy Hodges, president
21	24	<b>DD&amp;S Express</b>	Annapolis, MD	60	International	20	Rick Seleski, vice president
=22	25	<b>W.O. Grubb Crane Rental</b>	North Chesterfield, VA	14	National	409	Kenneth Holmes, general manager
=22	26	<b>Lampson International</b>	Kennewick, WA	7	International	300	William Lampson, president/CEO
23	27	<b>Collett &amp; Sons *</b>	Halifax, UK	4	International	150	David Collett, managing director
24	28	<b>NessCampbell Crane + Rigging</b>	Portland, OR	6	Regional	300	Mike McDonald, vice president
25	9	<b>Bay Limited</b>	Corpus Christi, TX	8	National	5,500	Berry Peterson, vice president
26	32	<b>Boss Crane &amp; Rigging</b>	Longview, TX	5	National	225	Richard Miller, president
=27	=30	<b>Totran Transportation Services</b>	Calgary, Alberta Canada	2	International	120	Scott Trousdale, vice president
=27	=30	<b>Mountain Crane Service</b>	Salt Lake City, UT	1	National	63	Paul Belcher, CEO
28	29	<b>Miller Transfer</b>	Rootstown, OH	18	International	71	Mitchell J. Unger, president
29	NEW	<b>Sarens USA</b>	Houston, TX	6	International	250	Lee Rowe, regional director
30	34	<b>Bricker Transport</b>	Laredo, TX	4	International	60	Brick Jones, CEO
=31	31	<b>Berard Transportation</b>	New Iberia, LA	5	National	75	Brett Berard, vice president, operations

\* ACT estimate

# TRAIL KING

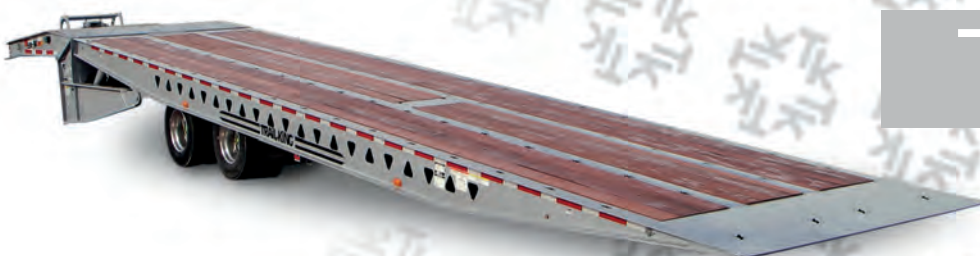
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WEBSITE	MODULAR/ HYDRAULIC TRAILERS /DOLLIES		SPECIALIZED TRAILERS (ALL MULTI-AXLE)		# OF TRUCK/ TRACTORS	TOTAL CAPACITY US TONS	TOTAL # IN FLEET
	CAPACITY (US TONS)	# IN FLEET	CAPACITY (US TONS)	# IN FLEET			
www.landstar.com	1,995	29	88,745	2,688	10,253	90,740	12,970
daseke.com	7,352	194	80,096	3,787	4,868	87,469	8,849
www.allcrane.com	21,950	311	79,875	2,146	445	101,825	2,902
www.atsinc.com	1,785	21	59,571	1,876	902	61,356	2,799
maximcrane.com	8,477	221	47,730	1,932	543	56,207	2,696
www.bennettig.com	3,450	137	46,505	1,062	1,283	49,955	2,345
www.barnhartcrane.com	26,781	136	44,512	826	399	71,293	1,349
www.combinedtransport.com	1,305	385	5,150	281	562	6,455	1,228
www.deepsouthcrane.com	15,508	372	19,740	496	70	35,248	938
www.hwhtransport.com	19,690	408	17,560	423	93	37,250	924
www.mammoet.com	72,987	479	10,276	320	42	83,263	841
www.mlcranegroup.com	1,126	78	12,767	541	186	13,893	805
www.groupebellemare.com	8,094	236	16,516	349	220	24,610	805
www.emmertintl.com	29,522	589	10,300	123	93	39,822	805
www.fagioli.com	35,468	742				35,468	742
www.dailyexp.com		12		395	250		657
www.braggcompanies.com	11,020	224	14,900	294	130	25,920	648
www.bigge.com	4,110	105	17,440	370	130	21,550	605
www.tradelossa.com	11,530	258	8,716	182	153	20,246	593
www.edwardsmoving.com	18,420	329	9,664	179	60	28,084	568
www.ncsg.com	16,185	383	4,550	94	63	20,735	540
www.northwestheavyhaul.com	2,472	65	11,046	274	190	13,518	518
ddsexpress.com	1,810	43	11,539	269	191	13,349	494
www.wogrub.com	5,247	104	14,986	338	110	20,233	466
www.lampsoncrane.com	14,006	372	2,032	64	30	16,038	466
www.collett.co.uk	7,045	215	7,253	157	70	14,298	442
www.nesscampbell.com	940	32	11,316	365	83	12,256	438
www.bayltd.com	31,157	123	1,840	68	235	32,997	426
www.bosscrane.com		93		206	81		380
www.totran.ca	12,346	590	9,660	222	95	22,006	367
www.mountaincrane.com	7,526	110	4,922	200	57	7,531	367
www.millertransfer.com			11,715	260	104	11,715	364
www.sarens.com	10,747	343			16	10,987	359
www.brickerttransport.com	1,305	9	9,338	170	40	10,643	349
www.berardtrans.com	11,768	244	2,416	53	43	14,184	340

EDITORS NOTE: Every attempt has been made to assure information in the ACTTRANSPORT50 is correct and accurate. The editors of ACT do not assume responsibility for errors, omissions or erroneous information.

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TKSA

2023 RANK	2022 RANK	COMPANY NAME	CITY STATE	# OF TERMINALS	SCOPE OF OPERATION	# OF EMPLOYEES	SENIOR CONTACT
=31	=35	<b>J. F. Lomma</b>	South Kearny, NJ	5	National	170	Frank Signorelli, COO
32	38	<b>Omega Morgan</b>	Hillsboro, OR	9	International	675	Erik Zander, COO
33	33	<b>OXBO Inc.</b>	Rosharon, TX	2	International	50	Keith Settle, CEO
34	NEW	<b>Atlas Crane Service</b>	Aurora, IL	4	National	200	Zach Prentis, CEO
=35	=35	<b>Southwest Industrial Rigging</b>	Phoenix, AZ	5	International	110	Harry Baker, president
=35	36	<b>Vic's Crane &amp; Heavy Haul</b>	Rosemount, MN	5	Regional	265	Nathan Jasper, development director
36	39	<b>Trans-United</b>	Burns Harbor, IN	7	International	105	Jeffrey S. Fleming, president/CEO
37	37	<b>MSA Delivery Services</b>	Canton, MI	3	International	65	Jerry Rozum, president
38	40	<b>Triton Transport</b>	Chilliwack, BC, Canada	3	International	85	Jared Bragg, vice president/ general manager
39	=42	<b>Precision Heavy Haul</b>	Tolleson, AZ	2	National	24	Mike Poppe, president
40	NEW	<b>Roll Group</b>	Dayton, TX	1	Regional	100	Edward Talbot, managing director, US
41	=42	<b>Yarbrough Transfer Company</b>	Winston-Salem, NC	3	Regional	70	David Yarbrough, president
42	45	<b>Borsheim Crane Service</b>	Fargo, ND	3	Regional	100	Tyler Goodman Jr., president
43	43	<b>Turner Industries Group</b>	Baton Rouge, LA	5	National	294	Mike Morain, president
44	44	<b>Buckingham Heavy Transport</b>	Bernville, PA	3	Regional	47	Mike Brovont, sales & project manager
45	47	<b>Taylor Crane &amp; Rigging</b>	Coffeyville, KS	2	International	106	Jim C. Taylor, Jr., president
46	NEW	<b>Barr Specialized</b>	Pinckneyville, IL	1	National	53	Joe Folden, COO
47	46	<b>Marco Transport</b>	Santa Ana, CA	2	Regional	37	Tim McVay, president
48	=48	<b>Advanced Freight Dynamics</b>	Conroe, TX	2	Regional	28	Steven Lyons, CEO
49	=48	<b>Perkins STC *</b>	Becker, MN	2	International	9	Barb Potter, owner
50	50	<b>TNT Crane &amp; Rigging</b>	Houston, TX	44	National	1,750	Mark Irion, CEO

\* ACT estimate

weathered issues like the supply chain, inflation and rising interest rates without much problem.

The things that distinguish this year's **ACTTRANSPORT50** over 2022 is that there are five new companies on the list, including one in the top 10, HWH Transport, based out of Tampa, FL. Also new to the list are Sarens USA, Atlas Crane Service, Roll Group and Bar Companies. As well, the **ACTTRANSPORT50** saw gains in every index aside from the number of truck/tractors, which greatly skewed the total fleet size index.

Companies seemed to tighten their belts on terminals, with 11 less reported this year than last. In terms of number of employees, the

**ACTTRANSPORT50** now employs 32,548 workers, an all-time high for this top list. The index gained more than 2,700 employees over the 2022 **ACTTRANSPORT50**. Last year the **ACTTRANSPORT50** saw a loss of 55 employees.

### M&A activity

Another point to make about the 2023 **ACTTRANSPORT50** has to do with merger and acquisition activity. While acquisitions on the list slowed this year, there was one noticeable change. Omega Morgan acquired Intermountain Rigging, which has been on the **ACTTRANSPORT50** since its inception in 2005. Due to this acquisition, Omega Morgan jumped from 38 to 32.

Due to ties in fleet size, 56 companies are represented on the 2023 **ACTTRANSPORT50** list.

The top five on our **ACTTRANSPORT50** moved around a little bit. The top five include Landstar Transportation Logistics again at Number 1, Daseke again at Number 2, ALL Erection & Crane Rental jumping from 5 to 3, ATS Specialized falling from 3 to 4 and Maxim Crane Works falling from 4 to 5. The top 10 stayed intact with the exception of HWH Transport that moved in at Number 10. Bay Limited, which had been in the top 10 at Number 9 in 2022, fell to Number 25.

A few companies that moved up on the list didn't necessarily add to their fleets, rather another company fell off



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WEBSITE	MODULAR/ HYDRAULIC TRAILERS /DOLLIES		SPECIALIZED TRAILERS (ALL MULTI-AXLE)		# OF TRUCK/ TRACTORS	TOTAL CAPACITY US TONS	TOTAL # IN FLEET
	CAPACITY (US TONS)	# IN FLEET	CAPACITY (US TONS)	# IN FLEET			
www.jflomma.com		5		286	49		340
www.omegamorgan.com	3,420	75	7,015	118	129	10,435	322
www.oxbowinc.com	11,480	248	1,695	32	41	13,175	321
www.atlascrane.com	3,020	50	6,950	190	30	9,970	270
www.swirusa1.com	3,275	86	6,372	156	90	9,647	265
www.vicscrane.com	3,414	87	3,870	111	52	7,284	265
www.transunited.com	1,980	40	9,450	123	90	11,430	253
www.msadelivery.com			5,080	186	30	5,080	216
www.tritontransport.com	590	7	6,165	145	47	6,755	159
www.precisionheavyhaul.com	580	20	5,725	103	16	6,305	138
www.roll-group.com	8,440	73	1,835	50	13	10,275	136
www.goytc.com			3,581	87	47	3,581	134
www.borsheimcrane.com	485	6	3,970	102	24	4,455	132
www.turner-industries.com	2,594	59	3,675	85	60	6,269	126
www.buckinghamtransport.com	3,963	96	4,356	35	18	8,319	121
www.taylorcrane.com	3,025	18	1,892	58	25	4,917	101
www.barrcos.com	2,000	27	1,110	33	37	3,110	97
www.marcotrucking.com			3,505	50	32	3,505	82
www.afd-web.com	505	6	1,860	33	18	2,365	54
www.perkinsstc.com			3,522	22	17	3,522	37
www.tntcrane.com	1,604	11				1,604	11

EDITORS NOTE: Every attempt has been made to assure information in the **ACTTRANSPORT50** is correct and accurate. The editors of **ACT** do not assume responsibility for errors, omissions or erroneous information.

the list. Notable changes include Emmert International from 15 to 12, Fagioli from 15 to 13, Bragg Companies from 19 to 15, Bigge Crane & Rigging from 21 to 18, DD&S Express from 24 to 21, Lampson International from 26 to 22, Collett & Sons from 27 to 23, Omega Morgan from 38 to 33, TransUnited from 39 to 36 and Precision Heavy Haul from 42 to 39.

Landstar Transportation Logistics kept its long-time Number 1 spot with a fleet size of 12,970, down from 14,740 in 2022.

In terms of specialized transportation capacity, ALL Erection is Number 1, with a total capacity of 101,825 tons. Landstar is Number 2, Daseke is Number 3, Mammoet North America is Number 4 and Barnhart Crane & Rigging is Number 5.

## Methodology

While most of the major players in the North American transportation sector are on our **ACTTRANSPORT50** list, there are changes from year to year based on participation.

The **ACTTRANSPORT50** is ranked by fleet size and then by total maximum transportation capacity of all relevant trailers and transport systems in a company's fleet (in U.S. tons). The ranking is based on information supplied on our **ACTTRANSPORT50** survey form. While we have worked to produce the most accurate ranking possible, we cannot guarantee the accuracy of the information supplied. We rely on the integrity and honesty of those who submit this information to assure

our list is accurate and correct. This year we reached out to more than 400 firms by email, telephone, social media and e-casts. In some cases, when data wasn't available or updated, we marked these listings as estimates.

As with all our *American Cranes & Transport* Top List databases, we made every effort to ensure the accuracy and completeness of the information published. The editors and staff take no responsibility for errors, omissions or incomplete information. ■

To participate in the 2024 **ACTTRANSPORT50** please reach out to D. Ann Shiffler or Hannah Sundermeyer at [d.ann.shiffler@khl.com](mailto:d.ann.shiffler@khl.com) or [hannah.sundermeyer@khl.com](mailto:hannah.sundermeyer@khl.com).



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# The projected shortage of craft labor is estimated to reach 1.9 million by 2025.



## The anticipated shortages will be addressed through SC&RF's 2024 Workforce Development Priorities:

### 1. Support SC&RA member Companies in efforts to raise industry awareness

- Workforce Ambassador Program: This program recognizes companies for raising industry awareness in their local communities.
- Lift & Move events are supported and encouraged. To learn more about hosting a Lift & Move event at your company contact the SC&RF.



### 2. Resource Creation: Career pathways

- Task forces will identify the most common career pathways in the industry including crane operator, rigger, os/ow driver, permitting planner, project manager, and tower crane technician. This information can be used in recruiting, working with schools and internally to establish benchmarks.

Workforce Partner:



### 3. Raise National Presence and Industry Awareness

- SC&RF staff and committees will attend or exhibit at conferences to raise industry awareness and promote career opportunities. Tentative attendance is planned at SkillsUSA, Future Farmers of America, and the Association of School Counselors of America.



Join and support our efforts. Learn more about the SC&RF (Specialized Carriers & Rigging Foundation) at [www.bit.ly/SCRF-WDI](http://www.bit.ly/SCRF-WDI)

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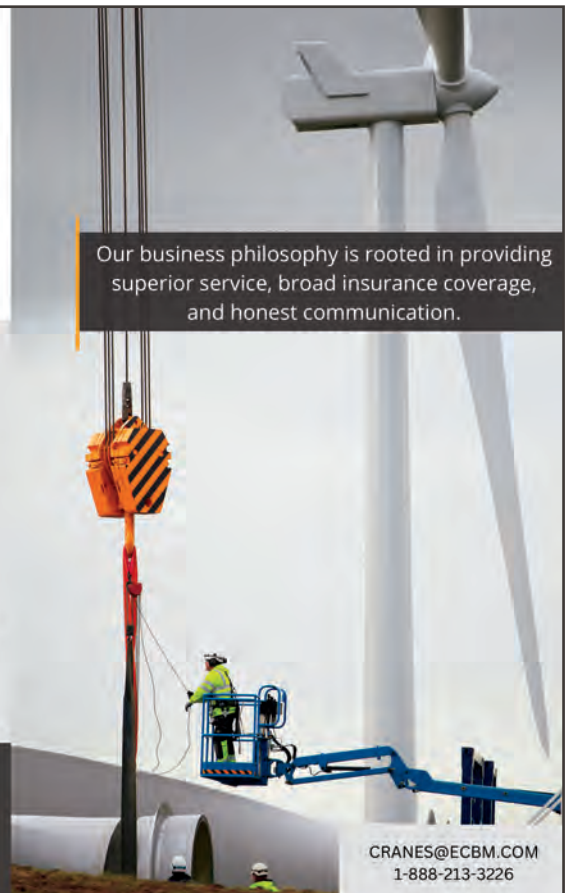
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# SPECIALIZED LIFTING 50

## Up and coming

The 2023 **SPECIALIZED LIFTING 50** reflects a sense of industry optimism across the board.

**Hannah Sundermeyer** reports.

BY THE NUMBERS

**15,231**

Approximate number of people employed by the companies represented in the **SPECIALIZED LIFTING 50**

**1,129**

Gantries and rubber tired gantries. (compared to 582 in 2022)

**1,367**

Strand jack units owned by the **SPECIALIZED LIFTING 50** (compared to 1,623 in 2022)

**6,471**

Pieces of other specialized lifting equipment (not classified as a gantry or strand jack) (compared to 5,432 in 2022)

**1,640,930**

Total capacity of every unit owned by every company on the list (compared to 1,552,909 tons in 2022)

**W**ith specialized rigging projects stacking up across North America, it makes sense that fleets, capacities and employees are rising alongside it. 2023 is the most impressive total capacity index in **SPECIALIZED LIFTING 50** history, coming in at 1,640,930 tons. This represents an increase of 88,021 tons since the 2022 index of 1,552,909 tons.

The number of employees saw an increase, growing to 15,231. With plenty of bridge, plant and industrial work, a rise in equipment demand means a parallel increase in manpower.

Another notable figure, the number of gantries and rubber-tired gantries, has more than doubled since 2022, clocking in at 1,129 compared to 578 the previous year. Some 1,367 strand jack units are

owned by the **SPECIALIZED LIFTING 50** companies, as compared to 1,623 in 2022. Some 6,471 pieces of other specialized lifting equipment (not classified as a gantry or strand jack) are also owned by these companies, as compared to 5,432 in 2022.

Several newcomers from 2022 have returned and maintained their spots in the top 10, including OXBO Mega Transport Solutions, Sarens and MEI Rigging & Crating.

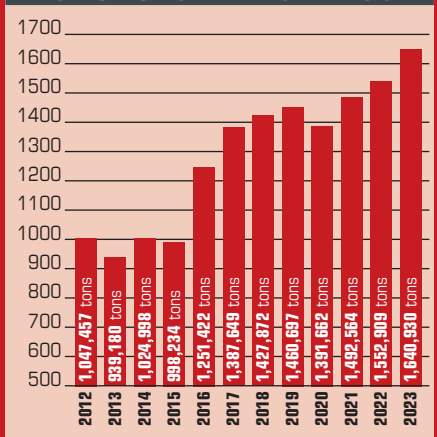
After a year of quiet growth, one key takeaway from this year's list is the streamlining of equipment fleets across the board. But with a slow, yet steady increase in tonnage and personnel, the specialized lifting industry is well-equipped to face an influx of bridge, industrial and infrastructure projects on the horizon.

>64

### TOP 10: LARGEST CAPACITY UNIT

RANK	NAME OF COMPANY	MAKE/MODEL OF LARGEST SPECIALIZED LIFTING UNIT	CAPACITY OF LARGEST LIFTING UNIT (U.S. TONS)	SPECIALIZED LIFTING INDEX (U.S. TONS)
1	FAGIOLI USA	Fagioli Self-Propelled Skid System	70,000	302,000
2	DEEP SOUTH	Deep South Specialized Jack System	16,000	50,900
3	BAY LTD.	Dorman Long Strand Synchronized Lift	15,400	47,250
4	BUCKINGHAM HEAVY TRANSPORT	Unified Hydraulic Jack Machine	12,000	27,200
5	OMEGA MORGAN	Heavy Slide System	6,000	8,900
6	BARNHART CRANE & RIGGING	Barnhart Modular Lift Tower	6,000	302,534
7	MAMMOET NORTH AMERICA	Mammoet Lift System	5,732	372,800
8	BERARD TRANSPORTATION	Enerpac Syncrolift	4,000	13,000
9	EMMERT INTERNATIONAL	Emmert Lift System	3,250	82,350
10	LAMPSON INTERNATIONAL	E-Z Lift	2,400	13,500

### TOTAL CAPACITIES BETWEEN 2012 AND 2023



2023	2022	NAME OF COMPANY	LOCATION	# OF DEPOTS	SCOPE OF OPERATION	# OF EMPLOYEES	SENIOR CONTACT
1	► 1	MAMMOET AMERICAS	USA	29	Worldwide	2,500	Martijn Kuipers, managing director
2	► 2	BARNHART CRANE & RIGGING	USA	58	National	1,600	Alan Barnhart, CEO
3	► 3	FAGIOLI, INC.	USA	4	Worldwide	118	Edoardo Ascione, president & CEO
4	► 4	EMMERT INTERNATIONAL	USA	3	Worldwide	100	Terry Emmert, president
5	NEW	LGH	USA	30	Worldwide	455	Ryan Group, vice president of sales
6	▼ 5	EDWARDS MOVING & RIGGING	USA	9	Worldwide	135	Jason Edwards, CEO
7	▼ 6	DEEP SOUTH CRANE & RIGGING	USA	8	Worldwide	750	Mitch Landry, president
8	► 8	OXBO MEGA TRANSPORT SOLUTIONS	USA	2	Worldwide	46	Keith Settle, chief executive officer
9	▼ 7	BAY LTD.	USA	3	Worldwide		Berry Peterson, vice president
10	▼ 9	SARENS	USA	12	Worldwide	300+	Lee Rowe, regional director
11	▼ 10	ENGINEERED RIGGING	USA	4	Worldwide	25	Christopher Cox, P.E.
12	▼ 11	BUCKINGHAM HEAVY TRANSPORT (A DIVISION OF WOLFE HOUSE MOVERS)	USA	4	Regional	50	Mike Brovont, senior sales manager
13	► 13	BELLEMARE TRANSPORT, ENGINEERING & LOGISTICS	CANADA	6	Worldwide	40	Jean-Luc Bellemare, president
14	▼ 12	DORAL EQUIPMENT	USA	2	National	24	Rob Keelan, vice president
15	▼ 14	LAMPSON INTERNATIONAL	USA	7	Worldwide	300	Kate Lampson, director strategic communication
16	▼ 15	BERARD TRANSPORTATION	USA	4	National	70	Brett Berard, Vice President of Operations
17	▼ 16	RIGGING GEAR SALES, INC.	USA	1	Worldwide	16	Ben Forster, vice president
18	► 18	IRM INDUSTRY MOVERS	MEXICO	2	Worldwide	103	David González, CEO and president
19	▼ 17	TAYLOR CRANE & RIGGING	USA	2	National	101	Jim C. Taylor, Jr., founder
20	▼ 19	GLOBAL RIGGING & TRANSPORT*	USA	1	Worldwide	30	Dan Close
21	▲ 27	ERICKSON'S	USA	4	Regional	60	Steve Erickson, president
22	▼ 20	RIGGERS GROUP	MEXICO	3	Worldwide	60	Hector R. Tores DaVila, vice president
23	▼ 21	INTERNATIONAL INDUSTRIAL CONTRACTING CORPORATION	USA	3	Worldwide	350	Brian Jardine, president
24	▼ 22	OMEGA MORGAN	USA	6	National	505	Erik Zander, COO
25	▼ 23	PSC CRANE & RIGGING	USA	3	National	200	Randy Sever, executive vice president
26	▼ 24	TNT CRANE & RIGGING	USA	43	National	1,750	Mike Appling Jr., CEO
27	▼ 25	NORRIS BROTHERS CO.	USA	1	Regional	65	M. Courtney Norris, PE
28	▼ 26	ADVANCED RIGGING & MACHINERY MOVERS	USA	1	Regional	30	Matthew Hinty, president
29	▼ 28	DUFFY CRANE & HAULING*	USA	0	National	120	Jeffrey L. Cummings, president
30	▼ 29	MAXIM CRANE WORKS	USA	54	National	3,080	Paul McDonnell, CEO
31	▼ 30	MEI RIGGING & CRATING, LLC	USA	15	National	1,000	Dan Cappello, CEO
32	▼ 31	MID-ATLANTIC LIFT SYSTEMS	USA	1	Worldwide	3	Travis Hall, president
33	▼ 32	ML CRANE GROUP	USA	8	National	425	Caroline Asimakopoulos, president
34	▼ 33	PRO-LIFT RIGGING*	USA	10	National	223	Matthew Brennan, president
35	► 35	PROCESS GROUP INC.*	CANADA	3	Canada	275	Bryan Snyder, VP construction
36	▼ 37	CSE INC. *	USA	5	National	225	Chris Stinnette, executive vice president
37	▼ 36	INTERMOUNTAIN RIGGING & HEAVY HAUL *	USA	2	National	95	Ron Montgomery, president
38	► 38	CR HOLLAND CRANE SERVICE	USA	1	Regional	7	Christopher Holland, president
39	▲ 40	AME, INC.	USA	4	Worldwide	158	Scott Walker, director of preconstruction
40	▼ 39	SOUTHWEST INDUSTRIAL RIGGING*	USA	4	National	170	Harry Baker, president

\* estimated



WEBSITE	# OF RUBBER TIRED GANTRIES	# OF GANTRIES	# OF OTHER SPECIALIZED LIFTING UNITS	# OF OTHER STRAND JACK UNITS	MAKE/MODEL OF LARGEST SPECIALIZED LIFTING UNIT	CAPACITY OF LARGEST SPECIALIZED LIFTING UNIT (U.S. TONS)	SPECIALIZED LIFTING INDEX (U.S. TONS)
www.mammoet.com	0	20	305	550	Mega Jacks	5,732	372,800
www.barnhartcrane.com	0	93	803	37	Barnhart Modular Lift Tower	6,000	302,534
www.fagioli.com	0	20	152	596	Fagioli Self-Propelled Skid System	70,000	302,000
www.emmertintl.com	0	16	1,055	4	Emmert Lift System	3,250	82,350
https://rentlgh.com	50	585	685	0	Enerpac EVO Synchronous Lifting System	4,000	70,000
www.edwardsmoving.com	0	12	606	4	Hydrospex Strand Jack System	880	69,857
www.deepsouthcrane.com	1	8	107	13	Deep South Specialized Jack System	16,000	50,900
www.oxboinc.com	1	3	31	18	Oxbo Heavy Skid System	17,325	47,875
www.bayltd.com	0	2	3	14	Dorman Long Strand Synchronized Lift System	15,400	47,250
www.sarens.com	2	27	159	282	SGC 250	5,000	31,875
www.engineeredrigging.com	0	6	36	10	Enerpac JS 500 Jack Up System	2,200	29,256
www.buckinghamtransport.com	0	2	12	0	Unified Hydraulic Jack Machine	12,000	27,200
www.groupebellemare.com	4	6	607	10	Hydra Slide HT500	1,000	20,000
www.doralequipmentrental.com	0	0	102	0	Versa-Lift 100/140	70	22,585
www.lampsoncrane.com	0	4	8	0	E-Z Lift	2,400	13,500
www.berardtrans.com	0	4	8	0	Enerpac Syncrolift	4,000	13,000
www.rgsinc.net	0	102	196	0	Lift Systems HH1000	1,000	12,342
www.irmindustrial.com	0	3	187	0	J&R Engineering /1001-4-34	500	12,050
www.taylorcrane.com	0	10	210	0	Enerpac EVO Sync Lift System	2,400	11,103
www.globalrigging.com	0	0	15	16	CTTS	2,000	10,000
www.ericksonsgcr.com	0	4	15	0	Enerpac SBL 1100	1,180	5,000
www.riggers.mx	0	4	98	49	J&R Engineering Lift N Lock Gantry L1200	600	9,800
www.iiccsa.com	0	7	350	0	Riggers EZ-Lift 600-33	600	9,660
www.omegamorgan.com	0	7	30	0	Heavy Slide System	6,000	8,900
www.pscind.com	0	4	170	0	Hydra-Slide JS250 "Up 'N Go"	1,000	8,200
www.tntcrane.com	0	12	75	0	Enerpac SBL 1100	1,100	7,200
www.norrisbr.com	0	3	8	0	Lift System	800	6,695
www.advanced-rigging.com	0	11	233	0	Hydraspec FS404/270	400	5,850
www.duffycrane.com	0	6	40	11		600	5,000
www.maximcrane.com	4	20	37	4	Wolf 1250B	800	4,100
www.meiriggingcrating.com	0	15	89	0	J&R Lift-n-Lock	500	3,835
www.midatlanticlift.com	0	42	12	0	Lift Systems 34PT5400WT	500	3,258
www.mlcranegroup.com	1	6	71	0	Enerpac SBL-500	500	2,486
www.proliftrigging.com	0	3	42	0	Lift Systems 44A Gantry	400	2,262
www.processgroup.ca	0	6	6	0	Lifting Tower	1,000	2,130
www.cseonline.net	0	1	6	0	J&R Engineering Lift & Lock Gantry	900	2,000
www.irhusa.com	0	12	25	4	J&R 900 Series	450	2,000
www.crhollandcrane.com	0	0	7	0	Liebherr LTM 1400	500	1,990
www.ameonline.com	0	3	5	0	Lift Systems Twin-Lift	75	1,750
www.ameonline.com	0	4	7	0	Lift Systems 850	850	1,332

Editor's Note: American Cranes & Transport is not responsible for errors or omissions. >66

## Rental and recovery

Especially during such a revival period for the construction sector, *ACT* continually tries to recruit new participants to our top lists. A newcomer to the ranking in 2023, LGH, a specialized rigging equipment rental company based in Illinois, makes its debut on the **SPECIALIZED LIFTING 50**. With a lifting index of 70,000 tons, LGH has broken into the top ten, placing Number 5.

Rental fleets are dominating across the specialized lifting market. Companies may have less revenue to purchase new machinery, and supply chain shortages are still an issue.

But with a growing demand for projects, and infrastructure spending coming down the pipeline, rental equipment serves as a contributing factor for the construction industry to regain its pre-pandemic fortitude across North America. ■

## METHODOLOGY

*ACT* began distributing survey forms for the **SPECIALIZED LIFTING 50** list via email in January 2023 and followed up with phone calls and more emails in February. The companies that completed and returned these surveys over the course of the last two months were included in this year's list.

For companies that didn't update their data, we used information from our 2022 list. In these cases, an asterisk appears next to that company's name. As a result, the **SPECIALIZED LIFTING 50** is an estimate.

While every effort was made to ensure the accuracy and completeness of the information in this list, *ACT*, its editors and publishers do not assume responsibility for any errors or omissions. We strive to improve this list, as well as our other annual lists, every year.

## 2024

To be a part of our 2024 **SPECIALIZED LIFTING 50**, email the editor, D. Ann Shiffler, to request a survey form. She can be reached at [d.ann.shiffler@khl.com](mailto:d.ann.shiffler@khl.com). Or you may email Hannah Sundermeyer at [hannah.sundermeyer@khl.com](mailto:hannah.sundermeyer@khl.com)

## TOP 10: NUMBER OF GANTRIES

RANK	NAME OF COMPANY	TOTAL NUMBER OF GANTRIES	SPECIALIZED LIFTING INDEX (U.S. TONS)
1	LGH	585	70,000
2	RIGGING GEAR SALES	102	12,342
3	BARNHART CRANE & RIGGING	93	302,534
4	MID-ATLANTIC LIFT SYSTEMS	42	3,258
5	MAMMOET NORTH AMERICA	20	372,800
6	FAGIOLI USA	20	302,000
7	MAXIM CRANE WORKS	20	4,100
8	MEI RIGGING & CRATING	15	3,835
9	EDWARDS MOVING & RIGGING	12	69,857
10	TNT CRANE & RIGGING	12	7,200

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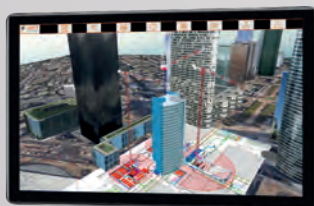
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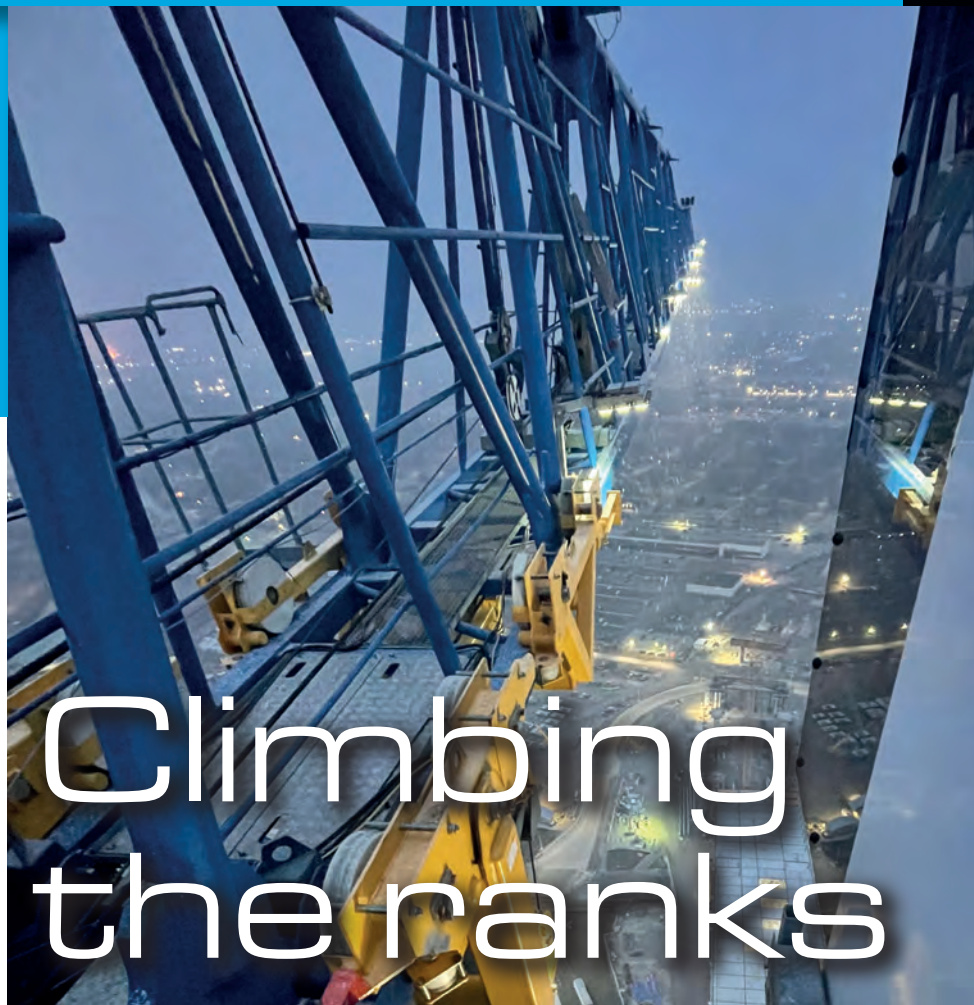
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The annual  
**ACTTOWERCRANE50**  
showed strong growth in  
2023, with more cranes  
and companies. **Hannah  
Sundermeyer** reports.

In an impressive turnout for the **ACTTOWERCRANE50**, in 2023 the number of tower cranes increased as did other market indicators such as number of branches and number of employees. Our annual tower crane top list has increased by 14 companies since 2020, clocking in at 40 this year, with five newcomers breaking into the ranks.

In 2023, the **TOWERCRANE50**



# Climbing the ranks

increased by 248 units, from 2,209 units last year to 2,457 units this year.

In 2022, the list actually decreased by

39 units from 2021. This was attributed to fleet streamlining and mergers and acquisitions.

This is good news for the tower crane sector. The index is a reliable indicator of the market.

The **ACTTOWERCRANE50** posted 283 branches and 10,112 employees. Last year's list, with 36 companies, had 262 branches and 9,126 employees.

## Still number one

Having held the Number one spot since the **ACTTOWERCRANE50** was created, Morrow Equipment leads the pack with an impressive fleet of 592 units. The top-ranking company increased its fleet by 29 tower cranes over the past year. Morrow has 22 depots and 369 employees. Its largest crane is a Liebherr 710 HC-L 32/64, the third largest tower crane on the list. Morrow's familiar yellow cranes are working throughout North America, in city centers, on infrastructure projects and a host of other jobs.

Maxim Crane Works managed to secure the Number two spot again this year.

While only growing its fleet by three units, >70

BY NUMBERS

**TOWER CRANES**  
2,457

**BRANCHES**  
283

**EMPLOYEES**  
10,112

## Largest tower cranes (by capacity)

2023 RANK	COMPANY	LARGEST TOWER CRANE	CAPACITY (MT)
1	<b>SARENS</b>	Sarens HLTC 2400	128
2	<b>J.F. LOMMA INC.</b>	Favco M1280	100
3	<b>MORROW EQUIPMENT</b>	Liebherr 710 HC-L 32/64	64
=4	<b>MAXIM CRANE WORKS</b>	Wolff 1250B	60
=4	<b>WOLFFKRAN</b>	Wolff 1250B	60
=4	<b>SELECT CRANE</b>	Wolff 1250B	60
=4	<b>RELIABLE CRANE SERVICE</b>	Wolff 1250B	60
5	<b>U.S. CRANE &amp; RIGGING</b>	Favco M440D	55
6	<b>STAFFORD CRANE GROUP</b>	Potain MD1400	50
7	<b>LEAVITT CRANES</b>	Kroll K1650L	45
8	<b>BIGGE CRANE &amp; RIGGING</b>	Comedil CTT 721-40B	40
9	<b>ML CRANE GROUP</b>	Terex Peiner SK575	38
=10	<b>ALL FAMILY OF COMPANIES</b> (ALL ERECTION & CRANE RENTAL)	Potain MD 610	32
=10	<b>RMS CRANES</b>	Potain MR608	32
=10	<b>OXFORD BUILDERS SUPPLIES</b>	Terex Comedil CTL630	32
=10	<b>SKYCRANE LIMITED</b>	Sun STT-753	32
=10	<b>B&amp;G EQUIPMENT AND SUPPLY</b>	Terex Peiner SK415	32
=10	<b>LIBERTY EQUIPMENT</b>	MR 605B	32
=10	<b>FUSE EQUIPMENT</b>	Potain MR 605 B	32

\* ACT estimate

2023

## ACTTOWERCRANE50

2023 RANK	2022 RANK	COMPANY	NO. OF DEPOTS	NO. OF EMPLOYEES	COUNTRY	SCOPE OF OPERATION
1	► 1	MORROW EQUIPMENT	22	369	USA	Worldwide
2	► 2	MAXIM CRANE WORKS	53	2,892	USA	National
3	► 3	UPERIO NORTH AMERICA	7	120	USA	National
4	▲ 6	ALL FAMILY OF COMPANIES	31	1,600	USA	Worldwide
5	▼ 4	BIGGE CRANE AND RIGGING	26	1,081	USA	National
6	▼ 5	STAFFORD SOIMA CRANE GROUP	11	150	USA/Mexico	Worldwide
7	► 7	LEAVITT CRANES	3	43	USA/Canada	Worldwide
8	NEW	MORWEST CRANE & SERVICES	6	108	Canada	Worldwide
9	▼ 8	CREATIVE LIFTING SERVICES	1	25	USA	Worldwide
10	▼ 9	RMS CRANES	5	320	USA	Regional
11	▼ 10	OXFORD BUILDERS SUPPLIES	4	150	Canada	National
12	▼ 11	LEWIS CRANE AND HOIST	1	70	USA	Regional
13	▼ 12	U.S. CRANE & RIGGING*	2	500	USA	National
14	NEW	RAPICON TOWER CRANES WEST	2	83	Canada	National
15	▲ 22	ROCKY MOUNTAIN CRANE & EQUIPMENT RENTAL	1	9	USA	Regional
16	▼ 15	RELIABLE CRANE SERVICE	5	235	USA	National
17	▼ 14	BLUE HAT CRANE & EQUIPMENT RENTAL	6	89	USA	National
18	▼ 13	BIGFOOT CRANE COMPANY	1	40	Canada	National
19	▼ 18	BRONSON CRANE	1	8	USA	Regional
20	▼ 16	J.F. LOMMA*	9	190	USA	Worldwide
21	▼ 17	SKYCRANE LIMITED	2	12	Canada	Worldwide
22	▲ 26	WOLFFKRAN	3	15	USA/Canada	National
23	▼ 21	B&G EQUIPMENT AND SUPPLY	6	17	USA	National
24	▼ 19	LIBERTY EQUIPMENT (FORMERLY FUSE EQUIPMENT)	4	40	USA	National
25	▼ 20	ML CRANE GROUP*	11	500	USA	National
26	▼ 23	ALLIED CRANE	2	14	Canada	National
27	▼ 24	RAPICON INC.	2	10	Canada	National
28	▼ 25	GUAY INC.*	20	500	Canada	National
29	▼ 27	ROYCAP MACHINERY*	1	6	Canada	Regional
30	▼ 28	REYNOLDS CRANE AND RIGGING SERVICE	2	75	USA	Regional
31	▼ 29	IDEAL CRANE RENTAL	6	110	USA	Regional
32	▼ 30	NORTH AMERICAN CRANE & RIGGING	5	70	USA	National
33	NEW	MIDCONTINENT CRANE	1	15	USA	National
34	▼ 31	CUSTOM SERVICE CRANE	4	55	USA	Regional
35	▼ 32	CRANE TECH SOLUTIONS	2	25	USA	Regional
36	NEW	SARENS	6	451	USA	Worldwide
37	▼ 33	JCRANE	2	33	USA	Regional
38	NEW	FINNCO SERVICES	1	20	USA	National
39	▼ 35	CONNELLY CRANE RENTAL	3	50	USA	Regional
40	▼ 36	SELECT CRANE SALES	3	12	USA	Worldwide

\* ACT estimate

the company still owns an impressive 337 tower cranes and boasts the highest number of employees at 2,892.

Uperio North America, ALL Family of Companies and Bigge Crane and Rigging round out the top five. ALL jumped from sixth to fourth place this year, with 104 tower cranes, 31 depots and 1,600 employees. Fleet sizes for the top 10 companies stayed about the same as in 2022, with just a handful of new units added.

### New recruits

Each year, the ACT team casts a wide net to try to increase the number of cranes on the **ACTTOWERCRANE50**.

Five new companies join the list this year: Morwest Crane & Services at 8, Rapicon Tower Cranes West at 14, MidContinent Crane at 33, Sarens at 36 (tied with Crane Tech Solutions) and Finnco Services at 38.

A standout newcomer this year breaking into the top 10, Morwest Crane & Services

serves clients in Alberta, Saskatchewan, Manitoba and British Columbia in Canada and in California, Florida, Nevada, Oregon and Washington in the United States. The company has six depots, 108 employees and a fleet of 74 tower cranes.

Coming in at Number 14, is another first time Canadian **ACTTOWERCRANE50** participant, Rapicon Tower Cranes West. The company has 47 tower cranes in their fleet and specializes in Potain cranes.



SENIOR CONTACT	WEBSITE	LARGEST TOWER CRANE IN FLEET	LARGEST TOWER CRANE CAPACITY (MT)	NUMBER OF TOWER CRANES IN FLEET
Peter Juhren, President and COO	www.morrow.com	Liebherr 710 HC-L 32/64	64	<b>592</b>
Paul McDonnell, CEO	www.maximcrane.com	Wolff 1250B	60	<b>337</b>
Kelly Hadland, Manager	www.uperiousa.com	Potain MD 569	25	<b>140</b>
Michael L. Liptak, President	www.allcrane.com	Potain MD 610	32	<b>104</b>
Weston Settlemyer, President & CEO	www.bigge.com	Comedil CTT 721-40B	40	<b>99</b>
Patrick N Stafford, President	www.staffordcranegroup.com	Potain MD 1400	50	<b>96</b>
Erick Zampini, General Manager	www.leavittcranes.com	Terex CTL 630	45	<b>79</b>
Wayne Morin, President	www.morwestcraneandservices.com	Wolff 600 EC	30	<b>74</b>
Kelly Webb, President	www.creativelifting.com	Saez TLS-65	10	<b>65</b>
Michael Willenborg, President	www.rmscrane.com	Potain MR 608	35	<b>53</b>
Mike Demelo, Senior Vice President	www.oxfordbuilders.ca	Terex Comedil CTL630	32	<b>53</b>
Logan Lewis, CEO/Craig Martin, President	www.LewisCraneandHoist.com	Moritsch RTT 520	26	<b>50</b>
Thomas Auringer, Owner	www.uscraneriggingllc.com	Favco M440D	55	<b>49</b>
Ryan Hague, President	www.rapiconwest.com	Potain MD 560-40	40	<b>47</b>
Dusty Bitton, Owner	www.rockymtncranes.com	Potain MDT 219	10	<b>46</b>
Darrell Shaw, CEO	www.reliablecraneservice.com	Wolffkran 1250B	60	<b>41</b>
Henry Volante, Equipment Operations Director	www.bluehatcrane.com	Linden Comansa 21LC550	20	<b>37</b>
Ryan Burton, Managing Director	www.bigfootcrane.com	Potain MDT219/J10	10	<b>35</b>
Judd Wagstaff, Manager	www.bronsoncrane.com	Potain MDT219/J10	11	<b>35</b>
Frank Signorelli, Chief Operating Officer	www.jflommainc.com	M1280 Favco Tower Crane	100	<b>34</b>
Jim Howard, President	www.towercranes.net	Sun STT-753	32	<b>34</b>
Michael Hergert, President	www.wolffkran.com	Wolff 1250 B	60	<b>34</b>
JR Moran, Director of Crane Operations	www.bgequipmentsupply.com	Terex Peiner-SK575	32	<b>33</b>
John Rials, National Director of Equipment	www.libertycsllc.com	Potain MR 605B	32	<b>31</b>
Caroline Asimakopoulos	www.mlcranegroup.com	Terex Peiner SK575	35	<b>29</b>
Derek Kasa, CEO	www.alliedcraneltd.ca	Jaso J560	24	<b>27</b>
Bernard (Red) Emond, President	www.rapicon.ca	Potain MDT-389L16	16	<b>25</b>
Jean-Marc Baronet, President	www.gruesguay.com	Terex Peiner SK415	20	<b>24</b>
Charlie Collura, General Manager	www.capitalcranecorp.com	Terex CTT 331-16	16	<b>23</b>
Nate Reynolds, Vice President	www.reynoldscrane.com	Potain MD 559	20	<b>20</b>
Robert Kalhagen, President	www.idealcranerental.com	Liebherr 125 K	9	<b>18</b>
Louis Izzo, CEO	www.nacranes.com	Potain MD559	20	<b>19</b>
Dave Bell, CEO	www.mccrane.cc	Moritsch RTT 470	24	<b>17</b>
Randy Huffman, Vice President	www.customservicecrane.com	Wolff 355B	28	<b>15</b>
Robert Kohler, Vice President	www.cranetechsolutions.com	JASO J560	24	<b>10</b>
Lee Rowe, Regional Director	www.sarens.com	Sarens HLTC 2400	141	<b>10</b>
Jack Stull, President	www.jcrane.com	San Marco SMT 520	5.5	<b>8</b>
Art Torres, Vice President	www.finnco.com	Wolffkran 8033	20	<b>6</b>
Mike Connelly, President	www.connellycrane.com	Potain MDT 248	10	<b>4</b>
Jason Mackenzie, President	www.selectcrane.com	Wolffkran 1250B	60	<b>4</b>

MidContinent Crane is based in Central Oklahoma, providing sales and rental services. They have 17 units in their fleet.

Finnco Services works in North America, South America and the Caribbean. The company has a fleet of six tower cranes. The view from their Comansa can also be seen on this month's cover.

Under a new name, Liberty Equipment, formerly known as Fuse Equipment, is number 24 on the **ACTTOWERCRANE50**. The

## Disclaimer

Like all of our lists, we work very hard to ensure the accuracy of the information submitted. *ACT* and its editors are not responsible for inaccuracies or errors. In some cases an (\*) asterisk denotes an estimate. If your company has one or dozens of tower cranes, it should be on this list. To receive a 2024 survey, please email D. Ann Shiffler at d.ann.shiffler@khl.com or Hannah Sundermeyer at hannah.sundermeyer@khl.com.

company has a fleet of 31 tower cranes.

Newcomer Saren's 128mt HLTC 2400 is the largest tower crane on the list. With a capacity of 60mt, there are four Wolff

1250B on the list. As our top list crosses the milestone of 40 companies, (with one tie) the *ACT* team is excited to see the continued growth of this top list.

# 2024 calendar of

## JANUARY

### JANUARY 7-10

**SC&RA Board and Committee Meeting**  
Cabo, Mexico  
Hacienda Del Mar Cabos  
[www.scranet.org](http://www.scranet.org)

### JANUARY 16-18

**AED Summit**  
Las Vegas, NV  
The Mirage  
[www.aedsummit.com](http://www.aedsummit.com)

### JANUARY 23-25

**World of Concrete**  
Las Vegas, NV  
Las Vegas Convention Center  
[www.worldofconcrete.com](http://www.worldofconcrete.com)

### JANUARY 23-25

**Power Gen**  
New Orleans, LA  
Ernest N. Morial Convention Center  
[www.powergen.com](http://www.powergen.com)



## FEBRUARY

### FEBRUARY 18-24

**IMPACT Conference**  
Lake Buena Vista, FL  
Hilton Orlando Buena Vista Palace  
[www.impact-net.org](http://www.impact-net.org)

### FEBRUARY 20-22

**SC&RA Specialized Transportation Symposium**  
Houston, TX  
Westin Gallery  
[www.scranet.org](http://www.scranet.org)



## APRIL

### APRIL 15-19

**SC&RA Annual Conference**  
Austin, TX  
Omni Barton Creek  
[www.scranet.org](http://www.scranet.org)

### APRIL 28-MAY 1

**AWRF Spring General Meeting**  
Nashville, TN  
Omni Nashville Hotel  
[www.awrf.org](http://www.awrf.org)

## MAY

### MAY 6-9

**Offshore Technology Conference**  
Houston, TX  
NRG Park  
[www.2024.otcnet.org](http://www.2024.otcnet.org)

### MAY 6-9

**CLEANPOWER 2023 Conference & Exhibition**  
Minneapolis, MN  
Minneapolis Convention Center  
[www.cleanpower.org](http://www.cleanpower.org)

## JUNE

### JUNE 11-12

**Tower Cranes North America**  
Nashville, TN  
[www.khl-tcna.com](http://www.khl-tcna.com)

### JUNE 11-14

**Crane Rental Association of Canada**  
Windsor, ON  
Caesars Windsor Hotel  
[www.crac-aclg.org](http://www.crac-aclg.org)





# industry events



## SEPTEMBER

### SEPTEMBER 24-26

#### SC&RA Crane & Rigging Workshop

Glendale, AZ

Renaissance Phoenix Glendale Hotel

[www.scranet.org](http://www.scranet.org)

## OCTOBER

### OCTOBER 1-2

#### Cranes and Transport Middle East

Dubai, UAE

Jafza One Convention Centre

[www.khl-catme.com](http://www.khl-catme.com)

### OCTOBER 15-17

#### Breakbulk Americas

Houston, TX

George R. Brown Convention Center

### OCTOBER 27-30

#### AWRF Fall General Meeting

La Quinta, CA

La Quinta Resort & Club

[www.awrf.org](http://www.awrf.org)

## NOVEMBER

### NOVEMBER 11-13

#### ACRP General Assembly

St. Louis, MO

[www.acrp.net](http://www.acrp.net)



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These tables and conversions are provided to help readers with comparisons between Imperial and metric measurements.

# Conversion

The crane marketplace is global, although there are still regulations and other issues that complicate the ability for there to be a truly “global” crane, trailer or related equipment. Most of the major OEMs

produce cranes for markets around the world. For the purpose of the *American Cranes & Transport Sourcebook*, we only include cranes and related equipment that are marketed in North America.

In the global marketplace, the metric system is standard for determining crane capacity and related information. However, in North America, most owners and users still look to the Imperial system for their measurements. However, crane manufacturers have begun to see the benefit of using one system to market their cranes, and more American crane owners have begun to accept the metric system as the new standard.

However, the conversion process is still necessary in many cases.

The key figures printed in the center column can be read as either metric or imperial.

example: 1 meter = 1.094 yards  
or 1 yard = 0.914 meters. \*Imp= Imperial

Inches (")	Millimeters (mm)	
0.039	1	25.4
0.079	2	50.8
0.118	3	76.2
0.157	4	101.6
0.197	5	127.0
0.236	6	152.4
0.276	7	177.8
0.315	8	203.2
0.354	9	228.6

Square Feet (ft²)	Square Meters (m²)	
10.764	1	0.093
21.528	2	0.186
32.292	3	0.279
43.056	4	0.372
53.819	5	0.465
64.583	6	0.557
75.347	7	0.650
86.111	8	0.743
96.875	9	0.836

Ounces (oz)	Grams (g)	
0.035	1	28.350
0.071	2	56.699
0.106	3	85.049
0.141	4	113.398
0.176	5	141.748
0.212	6	170.097
0.247	7	198.447
0.282	8	226.796
0.317	9	255.146

## LENGTH

1 millimeter (mm)	=	0.0394 inches
1 meter (m) (1000 mm)	=	1.0936 yards
1 kilometer (km) (1000 m)	=	0.5214 mile
1 inch	=	25.4 mm
1 yard (36 inches)	=	0.9144 m
1 mile (1760 yards)	=	1.6093 km

## AREA

1 square meter (m²) (10000 cm²)	=	1.1960 square yards
1 hectare (ha) (10000 m²)	=	2.4711 acres
1 square km (km²) (100 hectares)	=	0.3851 square mile
1 square yard (9 square feet)	=	0.8361 m²
1 acre (4840 yards²)	=	4046.9 m²

## VOLUME

1 cubic meter (m³)	=	1.3080 cubic yards
1 liter (l)	=	0.2200 gallon
1 cubic yard (27 cubic feet)	=	0.7646 meter
1 pint (4 gills)	=	0.5683 liter
1 gallon (8 pints)	=	4.5401 liter

## HEAT

1 British Thermal Unit (BTU)	=	1,055 joules
1 BTU/lb	=	2.326 kilojoules/kg

## WEIGHT

1 gram (g) (1000 mg)	=	0.0353 oz
1 pound (lb) (16 ounces)	=	0.4536 kg
1 ton (2,240 pounds)	=	1.0161 tonnes
1 US ton	=	2,000 lbs
1 metric tonne	=	2,200 lbs
1 hundred weight (cwt)	=	112 lb

## POWER

1 horsepower (hp)	=	746 watts (0.75 kW)
1 kilowatt (kW)	=	1.34 hp

## PRESSURE

1 bar (atmosphere)	=	14.2 psi
1 pound/inch² (psi)	=	6895 N/m²
1 (Newton/m²) Nm²	=	1 pascal (Pa)
20 lb/in²	=	1.41 kg/cm²

## USA WET MEASURE EQUIVALENTS

1 US pint (16 fl oz) (0.8327 UK pt)	=	0.4732 liter
1 US gallon (0.8327 UK gal)	=	3.7853 liters
1 US barrel	=	5.62 ft³ = 0.159 m³



# tables

In the *ACT Sourcebook 2024*, we have ranked the crane categories four different ways. In the mobile and crawler crane categories, we have ranked the cranes listed by metric tons and U.S. tons. In the boom truck category, we ranked the cranes by U.S. tons only. In the industrial and articulating crane categories, we have ranked the machines by pounds, metric tons and U.S. tons. In the tower crane category, we have ranked crane capacities by ton meters. We are providing these conversion tables as a matter of convenience.

Please do not use the conversions in important technical or safety calculations as they are designed as a guide to converting figures, not as a definitive listing.

For Manitowoc, Link-Belt and other cranes manufactured for the North American market, model names often indicate the lifting capacity of the crane in U.S. tons.

SPEED									
Miles per hour (mph)	20	30	40	50	60	70	80	90	100
Kilometer per hour (km/h)	32	48	64	80	96	112	128	144	160

FUEL								
Gallons (US)	1	2	4	6	8	10	12	14
Liters	3.78	7.54	15.14	22.71	30.28	37.85	45.45	53.00
Gallons (UK)	1	2	4	6	8	10	12	14
Liters	4.55	9.09	18.18	27.27	36.37	45.46	54.54	63.64

WEIGHT								
Pounds	1	2	3	4	5	10	14	20
Kilograms	0.454	0.907	1.361	1.814	2.268	4.536	6.350	9.072

TEMPERATURE												
°F	32	40	50	60	70	75	85	95	105	140	175	212
°C	0	5	10	15	20	25	30	35	40	60	80	100

Miles	Kilometers (km)	
0.621	1	1.609
1.243	2	3.219
1.864	3	4.828
2.485	4	6.437
3.105	5	8.047
3.728	6	9.656
4.350	7	11.265
4.971	8	12.875
5.592	9	14.484

Feet (')	Meters (m)	
3.281	1	0.305
6.562	2	0.610
9.843	3	0.914
13.123	4	1.219
16.404	5	1.514
19.685	6	1.829
22.966	7	2.134
26.247	8	2.438
29.528	9	2.743

Yards (yd)	Meters (m)	
1.094	1	0.914
2.187	2	1.829
3.281	3	2.743
4.375	4	3.658
5.468	5	4.572
6.564	6	5.486
7.658	7	6.401
8.752	8	7.315
9.846	9	8.230

Square Yards (yd²)	Square Meters (m²)	
1.196	1	0.836
2.392	2	1.672
3.588	3	2.508
4.784	4	3.345
5.980	5	4.181
7.176	6	5.017
8.372	7	5.853
9.568	8	6.689
10.764	9	7.525

Cubic Feet (ft³)	Cubic Meters (m³)	
35.315	1	0.028
70.629	2	0.057
105.943	3	0.085
141.258	4	0.113
176.572	5	0.147
211.887	6	0.170
247.201	7	0.198
282.516	8	0.227
317.830	9	0.255

Cubic Yards (yd³)	Cubic Meters (m³)	
1.308	1	0.765
2.616	2	1.529
3.924	3	2.294
5.232	4	3.058
6.540	5	3.823
7.848	6	4.587
9.156	7	5.352
10.464	8	6.117
11.772	9	6.881

Pounds (lb)	Kilograms (kg)	
2.205	1	0.454
4.409	2	0.907
6.614	3	1.361
8.819	4	1.814
11.023	5	2.268
13.226	6	2.722
15.432	7	3.175
17.637	8	3.629
19.842	9	4.082

Gallons (gall) *Imp(UK)	Liters (l)	
0.220	1	4.544
0.440	2	9.087
0.660	3	13.631
0.880	4	18.174
1.101	5	22.718
1.321	6	27.262
1.541	7	31.805
1.761	8	36.349
1.981	9	40.892

Pints (pt) *Imp(UK)	Liters (l)	
1.761	1	0.568
3.521	2	1.136
5.282	3	1.704
7.043	4	2.272
8.804	5	2.840
10.564	6	3.406
12.325	7	3.976
14.086	8	4.544
15.847	9	5.112





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## ALL TERRAINS BY MANUFACTURER

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Onroad Axle Loading (t/axle)	Engine Power (kW)	Capacity US tons
Grove	GMK3050-3	50	0.9 @ 36.0	40	8	50	3	53	12	254	55
Grove	GMK3060-2	60	1.1 @ 36.0	40	15	58	3	53	12	254	65
Grove	GMK3060L-1	60	0.6 @ 48.0	48	15	65	3	53	12	254	65
Grove	GMK4080-3	80	0.8 @ 56.0	51	21	75	4	53	12	320	88
Grove	GMK4090-1	90	0.7 @ 58.0	51	21	75	4	53	12	320	100
Grove	GMK4100L-2	100	0.8 @ 62.0	60	25.6	89	4	53	12	320	115
Grove	GMK5120L	120	1.0 @ 60.0	66	24	90	5	53	12	390	130
Grove	GMK5150-1	150	0.9 @ 76.0	51	41.8	88	5	53	12	390	175
Grove	GMK5150L-1	150	0.9 @ 74.0	60	33.8	97	5	53	12	390	175
Grove	GMK5150XL	150	1.0 @ 60.0	68.7	30.2	99	5	53	12	390	175
Grove	GMK5180-1	180	1.1 @ 76.0	64	34	101	5	53	12	390	210
Grove	GMK5200-1	200	1.0 @ 84.0	64	34	101	5	53	12	390	240
Grove	GMK5250L-1	250	0.9 @ 88.0	70	37	110	5	53	12	390	300
Grove	GMK5250XL-1	250	0.8 @ 90.0	78.5	33.8	115	5	53	12	390	300
Grove	GMK6300L-1	300	0.9 @ 94.0	80	37	120	6	53	12	430	350
Grove	GMK6400-1	400	2.6 @ 96.0	60	79	136	6	53	12	430	450
Grove	GMK7450/GMK7550	450	1.4 @ 104.0	60	79	136	7	53	12	420	550
Grove	GMK4070L	80	0.7 @ 52m	60	15	77	4	53	12	300	75
Grove	GMK4080L	80	0.7 @ 52m	60	15	77	4	53	12	300	85
Liebherr	LTM 1030-2.1	35	0.4 @ 40	30	15	44	2	53	12	209	40
Liebherr	LTM 1040-2.1	40 @ 2.5	0.4 @ 39	35	9.5	44	2	53	12	209	45
Liebherr	LTC 1050-3.1	50	0.7 @ 39	36	13	48	3	53	12	243	50
Liebherr	LTC 1050-3.1	50	0.6 @ 38	31	13	43	3	53	12	243	50
Liebherr	LTM 1050-3.1	50	0.6 @ 44	38	16	54	3	53	12	270	60
Liebherr	LTM 1055-3.2	55 @ 2.5	0.9 @ 46	40	16	56	3	53	12	270	65
Liebherr	LTM 1060-3.1	60 @ 2.1	0.9 @ 48	48	16	63	3	53	12	270	70
Liebherr	LTM 1070-4.2	70 @ 2.5	0.7 @ 48	50	16	65	4	53	12	330	80
Liebherr	LTM 1090-4.2	90	0.7 @ 62	60	16	76	4	53	12	330	110
Liebherr	LTM 1100-5.3	100	0.6 @ 68	62	16	76	5	53	12	400	110
Liebherr	LTM 1110-5.1	110	1.0 @ 54	60	33	91	5	53	12	400	125
Liebherr	LTM 1110-5.2	110	1.0 @ 54	60	33	91	5	53	12	400	125
Liebherr	LTM 1120-4.1	120	0.9 @ 54	66	26	91	4	53	12	330	135
Liebherr	LTM 1150-5.3	150	0.9 @ 54	66	26	92	5	53	12	400	170
Liebherr	LTM 1160-5.2	180 @ 2.5	0.7 @ 78	62	40	99	5	53	12	400	190
Liebherr	LTM 1230-5.1	230	1.5 @ 72	75	43	111	5	53	12	400	275
Liebherr	LTM 1250-5.1	250	1.1 @ 96	60	50	108	5	53	12	400	300
Liebherr	LTM 1300-6.2	300	1.1 @ 94	78	70	114	6	53	12	455	360
Liebherr	LTM 1300-6.3	300	1.1 @ 94	90	43	120	6	53	12	455	360
Liebherr	LTM 1350-6.1	350	2 @ 96	70	78	134	6	53	12	455	400
Liebherr	LTM 1450-8.1	450	2.5 @ 100	85	84	132	8	53	12	505	550
Liebherr	LTM 1650-8.1	700	5.7 @ 76	80	91	152	8	53	12	505	770
Liebherr	LTM 1750-9.1	800	4.3 @ 112	52	91	152	9	53	12	505	900
Liebherr	LTM 11200-9.1	1,200 @ 2.5	1.9 @ 136	100	126	188	9	50	12	505	1500
Link-Belt Cranes	1751AT	150 @ 2.1	.5 @ 73.1	60.1	33.2	96.1	5	55	12	432	175
Link-Belt Cranes	ATC-3210	136	3.2 @ 56	61	35.6	93.7	5	62	n/s	421	210
Link-Belt Cranes	ATC-3275	250	3.45 @ 62	68	35.6	100.7	5	62	n/s	421	275
Tadano	AC 2.040-1	40	0.9 @ 32	35.2	9	46	2	52.9	12	231	40
Tadano	AC 3.045-1 City	45	0.7 @ 36.5	31.2	13	44.2	3	49.7	12	260	50
Tadano	AC 3.060-2	60	0.8 @ 42	50	16	64.6	3	52.8	12	260	65
Tadano	AC 4.070L-1	70	0.5 @ 52	52.1	16	69.5	4	49.7	12	340	75
Tadano	AC 4.070-2	70	.08 @ 40	50	16	68	4	52.8	12	340	75
Tadano	AC 4.080-1	80	0.9 @ 46	60	6.5	65.8	4	52.8	12	340	88
Tadano	AC 4.100L-1	100	1.0 @ 54	59.4	27	81.5	4	52.8	12	340	120
Tadano	AC 4.110-1	110	1.0 @ 54	60	31.9	91	4	52.8	12	340	120
Tadano	AC 5.120-1	120	0.8 @ 68	60	31.9	90	5	52.8	12	390	132
Tadano	AC 5.130-1	130	1.6 @ 62	59.8	33	88	5	52.8	12	405	140
Tadano	AC 5.140-1	140	1.1 @ 72	60	32	93	5	52.8	12	390	160
Tadano	AC 5.160-1	160	1.5 @ 66	68	33	96	5	52.8	12	405	180
Tadano	AC 5.220L-1	220	1.1 @ 74	78	27	105	5	52.8	12	405	245



**ALL TERRAINS BY MANUFACTURER**

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Onroad Axle Loading (t/axle)	Engine Power (kW)	Capacity US tons
Tadano	AC 5.220-1	220	1.4@ 84	68	36	107	5	52.8	12	390	250
Tadano	AC 5.250-2	250	1.3@ 88	70	36	114	5	52.8	12	390	300
Tadano	AC 6.300-1	300	2.5@ 82	80	63	122	6	52.8	12	460	350
Tadano	AC 7.450-1	450	2.5@ 98	80	81	126	7	52.8	12	460	500
Tadano	AC 8.500-1	500	2.2@ 110	56	90	142	8	49.7	12	460	600

**ALL TERRAINS BY CAPACITY**

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Onroad Axle Loading (t/axle)	Engine Power (kW)	Capacity US tons
Liebherr	LTM 1030-2.1	35	0.4@ 40	30	15	44	2	53	12	209	40
Tadano	AC 2.040-1	40	0.9@ 32	35.2	9	46	2	52.9	12	231	40
Liebherr	LTM 1040-2.1	40@ 2.5	0.4@ 39	35	9.5	44	2	53	12	209	45
Liebherr	LTC 1050-3.1	50	0.7@ 39	36	13	48	3	53	12	243	50
Liebherr	LTC 1050-3.1	50	0.6@ 38	31	13	43	3	53	12	243	50
Tadano	AC 3.045-1 City	45	0.7@ 36.5	31.2	13	44.2	3	49.7	12	260	50
Grove	GMK3050-3	50	0.9 @ 36.0	40	8	50	3	53	12	254	55
Liebherr	LTM 1050-3.1	50	0.6@ 44	38	16	54	3	53	12	270	60
Grove	GMK3060-2	60	1.1 @ 36.0	40	15	58	3	53	12	254	65
Grove	GMK3060L-1	60	0.6 @ 48.0	48	15	65	3	53	12	254	65
Liebherr	LTM 1055-3.2	55@ 2.5	0.9@ 46	40	16	56	3	53	12	270	65
Tadano	AC 3.060-2	60	0.8@ 42	50	16	64.6	3	52.8	12	260	65
Liebherr	LTM 1060-3.1	60@ 2.1	0.9@ 48	48	16	63	3	53	12	270	70
Grove	GMK4070L	80	0.7@ 52m	60	15	77	4	53	12	300	75
Tadano	AC 4.070L-1	70	0.5@ 52	52.1	16	69.5	4	49.7	12	340	75
Tadano	AC 4.070-2	70	.08@ 40	50	16	68	4	52.8	12	340	75
Liebherr	LTM 1070-4.2	70@ 2.5	0.7@ 48	50	16	65	4	53	12	330	80
Grove	GMK4080L	80	0.7@ 52m	60	15	77	4	53	12	300	85
Grove	GMK4080-3	80	0.8 @ 56.0	51	21	75	4	53	12	320	88
Tadano	AC 4.080-1	80	0.9@ 46	60	6.5	65.8	4	52.8	12	340	88
Grove	GMK4090-1	90	0.7 @ 58.0	51	21	75	4	53	12	320	100
Liebherr	LTM 1090-4.2	90	0.7@ 62	60	16	76	4	53	12	330	110
Liebherr	LTM 1100-5.3	100	0.6@ 68	62	16	76	5	53	12	400	110
Grove	GMK4100L-2	100	0.8 @ 62.0	60	25.6	89	4	53	12	320	115
Tadano	AC 4.100L-1	100	1.0@ 54	59.4	27	81.5	4	52.8	12	340	120
Tadano	AC 4.110-1	110	1.0@ 54	60	31.9	91	4	52.8	12	340	120
Liebherr	LTM 1110-5.1	110	1.0@ 54	60	33	91	5	53	12	400	125
Liebherr	LTM 1110-5.2	110	1.0@ 54	60	33	91	5	53	12	400	125
Grove	GMK5120L	120	1.0 @ 60.0	66	24	90	5	53	12	390	130
Tadano	AC 5.120-1	120	0.8@ 68	60	31.9	90	5	52.8	12	390	132
Liebherr	LTM 1120-4.1	120	0.9@ 54	66	26	91	4	53	12	330	135
Tadano	AC 5.130-1	130	1.6@ 62	59.8	33	88	5	52.8	12	405	140
Tadano	AC 5.140-1	140	1.1@ 72	60	32	93	5	52.8	12	390	160
Liebherr	LTM 1150-5.3	150	0.9@ 54	66	26	92	5	53	12	400	170
Grove	GMK5150-1	150	0.9 @ 76.0	51	41.8	88	5	53	12	390	175
Grove	GMK5150L-1	150	0.9 @ 74.0	60	33.8	97	5	53	12	390	175
Grove	GMK5150XL	150	1.0 @ 60.0	68.7	30.2	99	5	53	12	390	175
Link-Belt Cranes	175IAT	150@ 2.1	.5@ 73.1	60.1	33.2	96.1	5	55	12	432	175
Tadano	AC 5.160-1	160	1.5@ 66	68	33	96	5	52.8	12	405	180
Liebherr	LTM 1160-5.2	180@ 2.5	0.7@ 78	62	40	99	5	53	12	400	190
Grove	GMK5180-1	180	1.1 @ 76.0	64	34	101	5	53	12	390	210
Link-Belt Cranes	ATC-3210	136	3.2@ 56	61	35.6	93.7	5	62	n/s	421	210
Grove	GMK5200-1	200	1.0 @ 84.0	64	34	101	5	53	12	390	240
Tadano	AC 5.220L-1	220	1.1@ 74	78	27	105	5	52.8	12	405	245
Tadano	AC 5.220-1	220	1.4@ 84	68	36	107	5	52.8	12	390	250
Liebherr	LTM 1230-5.1	230	1.5@ 72	75	43	111	5	53	12	400	275
Link-Belt Cranes	ATC-3275	250	3.45@ 62	68	35.6	100.7	5	62	n/s	421	275

## ALL TERRAINS BY CAPACITY

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Onroad Axle Loading (t/axle)	Engine Power (kW)	Capacity US tons
Grove	GMK5250L-1	250	0.9 @ 88.0	70	37	110	5	53	12	390	300
Grove	GMK5250XL-1	250	0.8 @ 90.0	78.5	33.8	115	5	53	12	390	300
Liebherr	LTM 1250-5.1	250	1.1 @ 96	60	50	108	5	53	12	400	300
Tadano	AC 5.250-2	250	1.3 @ 88	70	36	114	5	52.8	12	390	300
Grove	GMK6300L-1	300	0.9 @ 94.0	80	37	120	6	53	12	430	350
Tadano	AC 6.300-1	300	2.5 @ 82	80	63	122	6	52.8	12	460	350
Liebherr	LTM 1300-6.2	300	1.1 @ 94	78	70	114	6	53	12	455	360
Liebherr	LTM 1300-6.3	300	1.1 @ 94	90	43	120	6	53	12	455	360
Liebherr	LTM 1350-6.1	350	2 @ 96	70	78	134	6	53	12	455	400
Grove	GMK6400-1	400	2.6 @ 96.0	60	79	136	6	53	12	430	450
Tadano	AC 7.450-1	450	2.5 @ 98	80	81	126	7	52.8	12	460	500
Grove	GMK7450/GMK7550	450	1.4 @ 104.0	60	79	136	7	53	12	420	550
Liebherr	LTM 1450-8.1	450	2.5 @ 100	85	84	132	8	53	12	505	550
Tadano	AC 8.500-1	500	2.2 @ 110	56	90	142	8	49.7	12	460	600
Liebherr	LTM 1650-8.1	700	5.7 @ 76	80	91	152	8	53	12	505	770
Liebherr	LTM 1750-9.1	800	4.3 @ 112	52	91	152	9	53	12	505	900
Liebherr	LTM 11200-9.1	1,200 @ 2.5	1.9 @ 136	100	126	188	9	50	12	505	1500

## ROUGH TERRAINS BY MANUFACTURER

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (feet)	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US Tons
Brodersen	RT-400	20	3600 lbs @ 68 ft		88 ft	100	2	22	115	20
Grove	RT530E-2	30	0.67 @ 34.0	29	13.7	45m [146 ft]	2	25	122	30
Grove	RT540E	35 @ 2.5	0.67 @ 36.0	31	13.7	47m [154 ft]	2	25	122	40
Grove	GRT655	51 @ 2.5	0.52 @ 44.0	34.8	13.7	51.8m [170 ft]	2	18.8	129	55
Grove	GRT655L	51 @ 2.5	0.65 @ 42.0	43	13.7	59.7m [196 ft]	2	18.8	129	55
Grove	RT765E-2	60	0.94 @ 44.0	33.5	17.1	65.2m [214 ft]	2	23	194	65
Grove	RT770E	65 @ 2.5	0.53 @ 48.0	42	23.2	67.3m [221 ft]	2	23	194	70
Grove	GRT880	80 @ 2.5	0.69 @ 50.0	41.1	23.2	68m [223 ft]	2	15	205	80
Grove	GRT8100-1	100 @ 2	0.53 @ 52.0	47	23.2	73m [239.5 ft]	2	15	224	100
Grove	GRT8120	120 @ 2	0.68 @ 58.0	60	17.6	80.8m [265 ft]	2	15	224	120
Grove	RT9130E-2	120	0.77 @ 56.0	48.6	34	85m [279 ft]	2	15	239	130
Grove	GRT9165	150 @ 2.5	0.65 @ 72.0	62.5	25.8	91.1m [299 ft]	3	7.5	224	165
Liebherr	LRT 1090-2.1	90 @ 2.7	0.9 @ 48	47	19	66	2	15.5	201	100
Liebherr	LRT 1100-2.1	100 @ 2.5	0.6 @ 54	50	19	69	2	15.5	201	110
Liebherr	LRT 1130-2.1	130	0.5 @ 66	60	26	85	2	12.5	188	140
Link-Belt Cranes	RTC-8065 Series II	60 @ 2.5	1.55 @ 32	35	27.5	64.5	2	23.2	201	65
Link-Belt Cranes	75IRT	70 @ 2.5	.6 @ 38	43.3	17.7	63.6	2	20.8	201	75
Link-Belt Cranes	85IRT	80 @ 2.5	.9 @ 39.6	43.3	17.7	63.6	2	15 (full CTWT)	201	85
Link-Belt Cranes	100IRT	90 @ 2.1	.9 @ 44	47.2	22.6	72.3	2	15 (full CTWT)	173	100
Link-Belt Cranes	120IRT	110 @ 2.1	1 @ 44	50	27.5	79.7	2	15 (full CTWT)	173	120
Link-Belt Cranes	RTC-80130 Series II	120 @ 2.5	2.45 @ 46	49.3	33.3	84.7	3	17.1	257	130
Link-Belt Cranes	RTC-80160 Series II	145 @ 2.1	1.4 @ 56	59.5	33.3	94.8	3	15.8	257	160
Manitex	M-150	15	4,700 lbs @ 55 ft	19.05	n/s	85.5	2	26	119	15
Manitex	M-300	30 ton	5,400 lbs @ 70 ft	23.47	n/s	90	2	25	119	30
SANY America	SRA350A	32	.45 @ 37.8	35	16	176	2	15	209	35
SANY America	SRA750A	68	.41 @ 45.3	43.3	17	206.6	2	15	209	75
SANY America	SRA1000A	90	1.08 @ 41.45	47	18	214.9	2	15	209	100
SANY America	SRA1200A	110	.41 @ 44.5	56	18	250	2	15	209	120
Tadano	GR-300EX-3**	30 @ 3.0	0.5 @ 28	31	12.8	144.3	2	31	160	33
Tadano	GR-350XL *	31.8 @ 2.4	0.9 @ 28	31	12.8	144.3	2	31	175	35
Tadano	GR-550XL *	50 @ 2.4	1.06 @ 32	34.7	15.2	164.3	2	31	201	55
Tadano	GR-500EXS-3**	50 @ 2.5	1.3 @ 30	33	12.7	150.6	2	27	200	55
Tadano	GR-500EXL-3**	51 @ 2.5	0.7 @ 34	42	12.7	183.7	2	30	200	55
Tadano	GR-700EX-4**	70 @ 3.0	1.0 @ 40	47	17.7	211.3	2	22	200	77
Tadano	GR-800XL-4*	72.6 @ 2.4	0.64 @ 44	47	17.7	211.3	2	22	209	80



**ROUGH TERRAINS** BY MANUFACTURER

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (feet)	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US Tons
Tadano	GR-900EX-4**	90 @ 2.5	1.0 @ 42	47	17.7	211.3	2	22	200	99
Tadano	GR-1000XL-4*	90.7 @ 2.4	1.27 @ 44	47	17.7	211.3	2	22	209	100
Tadano	GR-1000XL-4*	90.7 @ 2.4	1.1 @ 47	51	17.7	224.1	2	22	209	100
Tadano	GR-1000EX-4**	100 @ 2.5	0.9 @ 44	51	17.7	224.1	2	22	200	110
Tadano	GR-1200XL*	110 @ 2.4	1.2 @ 46	56	17.7	241.4	2	12	201	120
Tadano	GR-1100EX-3**	110 @ 2.5	1.0 @ 44	56	17.7	241.4	2	12	200	120
Tadano	GR-1300XL-4*	118 @ 2.4	1.3 @ 53	56	18	237.9	2	12	209	130
Tadano	GR-1600XL*	145 @ 2.4	1.7 @ 56	61	18	302.5	3	9.3	201	160
Tadano	GR-1450EX-3**	145 @ 2.5	1.3 @ 56	61	18	302.5	3	9.3	200	160
Terex	TRT 40US	35@3		30.1	8	130	2	18	129	40
Terex	TRT 70US	60@3	1.1@38	43.5	15	195	2	19.2	168	70
Terex	TRT 80US	80@2.5	0.9 @ 39	42.1	15	141	2	19.2	168	80
Terex	TRT 90US	80@3	1.08@36	47	17	209.9	2	19.2	168	90
Terex	TRT 100US	87@2.5	1.0 @ 38	47	17	209.9	2	19.2	168	100
Zoomlion	ZRT600	60	0,550@44.8/ (1,212.5 @ 146.98 ft)	45 m/ (147 ft)	16 m/ (52.5 ft)	61.2 m/ (200.8 ft)	2	24.85	194	66
Zoomlion	ZRT850	85	0,9@44.5/ (1,984 lbs @ 146 ft)	47 m/ (154 ft)	16 m/ (52.5 ft)	65.7 m/ (215.6 ft)	2	22.37	194	94
Zoomlion	ZRT1100	100	0,9@50/ (1,984 lbs @ 164 ft)	49 m/ (160 ft)	17.5m / (57.4 ft)	66.8m/ (219.16ft)	2	21.88	194	121

\*\* denotes units sold in Mexico

\* denotes units sold in the US and Canada

**ROUGH TERRAINS** BY CAPACITY

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (feet)	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US Tons
Manitex	M-150	15	4,700 lbs @ 55 ft	19.05	n/s	85.5	2	26	119	15
Broderson	RT-400	20	3600 lbs @ 68 ft		88 ft	100	2	22	115	20
Grove	RT530E-2	30	0.67 @ 34.0	29	13.7	45m (146 ft)	2	25	122	30
Manitex	M-300	30 ton	5,400 lbs @ 70 ft	23.47	n/s	90	2	25	119	30
Tadano	GR-300EX-3**	30 @ 3.0	0.5 @ 28	31	12.8	144.3	2	31	160	33
SANY America	SRA350A	32	.45@37.8	35	16	176	2	15	209	35
Tadano	GR-350XL *	31.8 @ 2.4	0.9 @ 28	31	12.8	144.3	2	31	175	35
Grove	RT540E	35@2.5	0.67 @ 36.0	31	13.7	47m (154 ft)	2	25	122	40
Terex	TRT 40US	35@3		30.1	8	130	2	18	129	40
Grove	GRT655	51@2.5	0.52 @ 44.0	34.8	13.7	51.8m (170 ft)	2	18.8	129	55
Grove	GRT655L	51@2.5	0.65 @ 42.0	43	13.7	59.7m (196 ft)	2	18.8	129	55
Tadano	GR-550XL*	50 @ 2.4	1.06 @ 32	34.7	15.2	164.3	2	31	201	55
Tadano	GR-500EXS-3**	50 @ 2.5	1.3 @ 30	33	12.7	150.6	2	27	200	55
Tadano	GR-500EXL-3**	51 @ 2.5	0.7 @ 34	42	12.7	183.7	2	30	200	55
Grove	RT765E-2	60	0.94 @ 44.0	33.5	17.1	65.2m (214 ft)	2	23	194	65
Link-Belt Cranes	RTC-8065 Series II	60@2.5	1.55@32	35	27.5	64.5	2	23.2	201	65
Zoomlion	ZRT600	60	0,550@44.8/ (1,212.5 @ 146.98 ft)	45 m/ (147 ft)	16 m/ (52.5 ft)	61.2 m/ (200.8 ft)	2	24.85	194	66
Grove	RT770E	65@2.5	0.53 @ 48.0	42	23.2	67.3m (221 ft)	2	23	194	70
Terex	TRT 70US	60@3	1.1@38	43.5	15	195	2	19.2	168	70
Link-Belt Cranes	75IRT	70@2.5	.6@38	43.3	17.7	63.6	2	20.8	201	75
SANY America	SRA750A	68	.41@45.3	43.3	17	206.6	2	15	209	75
Tadano	GR-700EX-4**	70 @ 3.0	1.0 @ 40	47	17.7	211.3	2	22	200	77
Grove	GRT880	80@2.5	0.69 @ 50.0	41.1	23.2	68m (223 ft)	2	15	205	80
Tadano	GR-800XL-4*	72.6 @ 2.4	0.64 @ 44	47	17.7	211.3	2	22	209	80
Terex	TRT 80US	80@2.5	0.9 @ 39	42.1	15	141	2	19.2	168	80
Link-Belt Cranes	85IRT	80@2.5	.9@39.6	43.3	17.7	63.6	2	15 (full CTWT)	201	85
Terex	TRT 90US	80@3	1.08@36	47	17	209.9	2	19.2	168	90
Zoomlion	ZRT850	85	0,9@44.5/ (1,984 lbs @ 146 ft)	47 m/ (154 ft)	16 m/ (52.5 ft)	65.7 m/ (215.6 ft)	2	22.37	194	94
Tadano	GR-900EX-4**	90 @ 2.5	1.0 @ 42	47	17.7	211.3	2	22	200	99

\*\* denotes units sold in Mexico

\* denotes units sold in the US and Canada

## ROUGH TERRAINS BY CAPACITY

\*\* denotes units sold in the US and Canada  
\*\* denotes units sold in Mexico

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (feet)	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US Tons
Grove	GRT8100-1	100@2	0.53 @ 52.0	47	23.2	73m (239.5 ft)	2	15	224	100
Liebherr	LRT 1090-2.1	90@2.7	0.9@48	47	19	66	2	15.5	201	100
Link-Belt Cranes	100IRT	90@2.1	.9@44	47.2	22.6	72.3	2	15 (full CTWT)	173	100
SANY America	SRA1000A	90	1.08@41.45	47	18	214.9	2	15	209	100
Tadano	GR-1000XL-4*	90.7 @ 2.4	1.27 @ 44	47	17.7	211.3	2	22	209	100
Tadano	GR-1000XLL-4*	90.7 @ 2.4	1.1 @ 47	51	17.7	224.1	2	22	209	100
Terex	TRT 100US	87@2.5	1.0 @ 38	47	17	209.9	2	19.2	168	100
Liebherr	LRT 1100-2.1	100@2.5	0.6@54	50	19	69	2	15.5	201	110
Tadano	GR-1000EX-4**	100 @ 2.5	0.9 @ 44	51	17.7	224.1	2	22	200	110
Grove	GRT8120	120@2	0.68 @ 58.0	60	17.6	80.8m (265 ft)	2	15	224	120
Link-Belt Cranes	120IRT	110@2.1	1@44	50	27.5	79.7	2	15 (full CTWT)	173	120
SANY America	SRA1200A	110	.41@44.5	56	18	250	2	15	209	120
Tadano	GR-1200XL*	110 @ 2.4	1.2 @ 46	56	17.7	241.4	2	12	201	120
Tadano	GR-1100EX-3**	110 @ 2.5	1.0 @ 44	56	17.7	241.4	2	12	200	120
Zoomlion	ZRT1100	100	0.9@50/ (1,984 lbs @ 164 ft)	49 m/ (160 ft)	17.5m / (57.4 ft)	66.8m/ 219.16ft	2	21.88	194	121
Grove	RT9130E-2	120	0.77 @ 56.0	48.6	34	85m (279 ft)	2	15	239	130
Link-Belt Cranes	RTC-80130 Series II	120@2.5	2.45@46	49.3	33.3	84.7	3	17.1	257	130
Tadano	GR-1300XL-4*	118 @ 2.4	1.3 @ 53	56	18	237.9	2	12	209	130
Liebherr	LRT 1130-2.1	130	0.5@66	60	26	85	2	12.5	188	140
Link-Belt Cranes	RTC-80160 Series II	145@2.1	1.4@56	59.5	33.3	94.8	3	15.8	257	160
Tadano	GR-1600XL*	145 @ 2.4	1.7 @ 56	61	18	302.5	3	9.3	201	160
Tadano	GR-1450EX-3**	145 @ 2.5	1.3 @ 56	61	18	302.5	3	9.3	200	160
Grove	GRT9165	150@2.5	0.65 @ 72.0	62.5	25.8	91.1m (299 ft)	3	7.5	224	165

## TRUCK CRANES BY MANUFACTURER

\*\* denotes units sold in the US and Canada  
\*\* denotes units sold in Mexico

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US tons
Grove	TMS500-2	40 @ 2.2	.6 @ 38	29	13.7	39.1	3	65	261	40
Grove	TMS500-2	40 @ 2.2	.6@36	31	13.7	42	3	65	261	40
Grove	TMS875-2	75	1.6@41	39	25.6	59.2	4	65	336	75
Grove	TMS800-2	80	1.6@41	39	25.6	59.2	4	65	336	80
Grove	TMS9000-2	104	.6 @ 61	51.6	25.6	80.3	4	65	336	115
Grove	TTS9000-2	104	.6 @ 61	51.6	25.6	80.3	4	65	336	115
Liebherr	LTF 1045-4.1	45@2.5	0.8@42	35	9.5	44	4	n/s	n/s	55
Liebherr	LTF 1060-4.1	60@2.5	0.7@48	40	16	56	4	n/s	n/s	70
Link-Belt Cranes	HTC-8660 Series II (XP)	45.36	1.2@30	33.5	15.5	46.4	4	60.69	276	60
Link-Belt Cranes	65IHT	55 @ 2.1m	1.45@32	35	15.5	52.2	4	60.69	276	65
Link-Belt Cranes	HTC/HTT-8675 Series II	64.25	1.45@36	38.7	29.26	65.17	4	62.9	336	75
Link-Belt Cranes	HTC/HTT-86100	72.65	2.35@40	42.7	27.5	67.3	4	62.9	336	100
Link-Belt Cranes	HTC/HTT-86110	85	1.9@46	50	27.5	76.9	4	62	336	110
Link-Belt Cranes	120IHT	110 @ 2.1m	1.9@47	50	27.5	79.7	4	61	339	120
Link-Belt Cranes	120ITT	110 @ 2.1m	1.9@47	50	27.5	79.7	4	61	339	120
Link-Belt Cranes	120IHT LB	110 @ 2.1m	.6@53	60	17.7	80.1	4	61	339	120
Tadano	GT-300EL**	30 @ 3	0.6@32	34	14	48	3	85 km/h	240	33
Tadano	GT-600EL**	60 @ 2.7	0.6@34	43	14.3	57.3	4	85 km/h	260	66
Tadano	GT-800XL-2*	72.6 @ 2.4	0.7@44	47	17.9	64.3	4	105 km/h	373	80
Tadano	GT-750EL**	75 @ 2.7	0.6@40	47	14.3	61.2	4	85 km/h	260	82
Tadano	GT-1200XL-2*	110 @ 2.4	2.3@47	51	17.9	67.4	4	105 km/h	373	120



## TRUCK CRANES BY CAPACITY

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US tons
Tadano	GT-300EL **	30 @ 3	0.6@32	34	14	48	3	85 km/h	240	33
Grove	TMS500-2	40 @ 2.2	.6@38	29	13.7	39.1	3	65	261	40
Grove	TMS500-2	40 @ 2.2	.6@36	31	13.7	42	3	65	261	40
Liebherr	LTF 1045-4.1	45@2.5	0.8@42	35	9.5	44	4	n/s	n/s	55
Link-Belt Cranes	HTC-8660 Series II (XP)	45.36	1.2@30	33.5	15.5	46.4	4	60.69	276	60
Link-Belt Cranes	65IHT	55 @ 2.1m	1.45@32	35	15.5	52.2	4	60.69	276	65
Tadano	GT-600EL **	60 @ 2.7	0.6@34	43	14.3	57.3	4	85 km/h	260	66
Liebherr	LTF 1060-4.1	60@2.5	0.7@48	40	16	56	4	n/s	n/s	70
Grove	TMS875-2	75	1.6@41	39	25.6	59.2	4	65	336	75
Link-Belt Cranes	HTC/HTT-8675 Series II	64.25	1.45@36	38.7	29.26	65.17	4	62.9	336	75
Grove	TMS800-2	80	1.6@41	39	25.6	59.2	4	65	336	80
Tadano	GT-800XL-2*	72.6 @ 2.4	0.7@44	47	17.9	64.3	4	105 km/h	373	80
Tadano	GT-750EL **	75 @ 2.7	0.6@40	47	14.3	61.2	4	85 km/h	260	82
Link-Belt Cranes	HTC/HTT-86100	72.65	2.35@40	42.7	27.5	67.3	4	62.9	336	100
Link-Belt Cranes	HTC/HTT-86110	85	1.9@46	50	27.5	76.9	4	62	336	110
Grove	TMS9000-2	104	.6@61	51.6	25.6	80.3	4	65	336	115
Grove	TTS9000-2	104	.6@61	51.6	25.6	80.3	4	65	336	115
Link-Belt Cranes	120IHT	110 @ 2.1m	1.9@47	50	27.5	79.7	4	61	339	120
Link-Belt Cranes	120ITT	110 @ 2.1m	1.9@47	50	27.5	79.7	4	61	339	120
Link-Belt Cranes	120IHT LB	110 @ 2.1m	.6@53	60	17.7	80.1	4	61	339	120
Tadano	GT-1200XL-2*	110 @ 2.4	2.3@47	51	17.9	67.4	4	105 km/h	373	120

\*\* denotes units sold in Mexico

\* denotes units sold in the US and Canada

## BOOM TRUCKS BY MANUFACTURER

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Altec	AC30-101B	109	101	44	Out-and-Down	30
Altec	AC40E-152S	207	152	49	Out-and-Down	40
Altec	AC45E-127S	189	127	55	Out-and-Down	45
Altec	AC65E-155S	206	155	50	Swing Out-and-Down	65
Elliott Equipment Company	1047	57	47	NA	A-Frame	10
Elliott Equipment Company	1056	96	56	18 or 30	A-Frame	10
Elliott Equipment Company	1870	120	70	23 or 40	A-Frame	18
Elliott Equipment Company	1881TM	91	81	NA	Out-and-Down	18
Elliott Equipment Company	2695	152	95	26 or 45	A-Frame	26
Elliott Equipment Company	26105	162	105	26 or 45	A-Frame	26
Elliott Equipment Company	3095	148	95	24 or 41	Out-and-Down	30
Elliott Equipment Company	30105	162	105	26 or 45	Out-and-Down	30
Elliott Equipment Company	34127	186	127	49	Out-and-Down	34
Elliott Equipment Company	34142	201	142	49	Out-and-Down	34
Elliott Equipment Company	36127	186	127	49	Out-and-Down	36
Elliott Equipment Company	36142	201	142	49	Out-and-Down	36
Elliott Equipment Company	40105	170	105	32 or 55	Out-and-Down	40
Elliott Equipment Company	40142	207	142	26 or 55	Out-and-Down	40
Elliott Equipment Company	45127	192	127	26 or 55	Out-and-Down	45
Elliott Equipment Company	45142	207	142	26 or 55	Out-and-Down	45
Load King	MU16	87	47	18-20	A Link-Type	10
Load King	10-47	87	47	18-30	A Link-Type	10
Load King	19-51TM	101	51	24-40	Out and down	19
Load King	19-70	120	70	24 - 40	A Link-Type	19
Load King	25-92	146	92	26 - 44	A Link-Type	25
Load King	25-92M	146	92	26-44	Out and down	25
Load King	28-106	163	106	30 - 47	A Link-Type	28
Load King	35-100	165	100	30.5 - 55	Out and down	35
Load King	35-127M	192	127	30.5 - 55	Out and down	35
Load King	35-127RS	192	127	30.5 - 55	Out and down	35
Load King	40-127RS	192	127	30.5 - 55	Out and down	40

## BOOM TRUCKS BY MANUFACTURER

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Load King	50-155	222	155	33 - 57	Swing out and down	50
Load King	60-150	217	150	33 - 57	Swing out and down	60
Load King	80-160	228	160	30 - 58	Swing out and down	40
Manitex	1770C	121	27 - 70	23.6 or 40.6	A-Link and Out-and-Down	17
Manitex	1970C	121	27 - 70	23.6 or 40.6	A-Link and Out-and-Down	19
Manitex	2085T	95	18.9-85	N/A	Out-and-Down	20
Manitex	2485C/T	95	18.9-85	N/A	Out-and-Down	24
Manitex	2250C/T	96	20 - 50	20 or 34	A-Link and Out-and-Down	22
Manitex	2262C/T	115	24 - 62	24 or 42	A-Link and Out-and-Down	22
Manitex	2277C	140	29 - 77	29 or 52	A-Link and Out-and-Down	22
Manitex	2281C/T	133	24 - 81	24 or 41	A-Link and Out-and-Down	22
Manitex	2277S	138	29 - 77	29 or 52	Out-and-Down	22
Manitex	22101S tandem axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22
Manitex	22101S single axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22
Manitex	124WL	135	37 - 124	n/s	A-Link and Out-and-Down	25
Manitex	26101C	142	29 - 101	26	A-Link and Out-and-Down	26
Manitex	2892C	149	28 - 92	26 or 46	A-Link and Out-and-Down	28
Manitex	30112S	168	33 - 112	26 or 46	Out-and-Down	30
Manitex	3071C	82	28 - 71	n/a	A-Link and Out-and-Down	30
Manitex	30102C	157	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	102WL	159	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	30100C	110.6	100	26-46	A-Link and Out-and-Down	30
Manitex	3051T	62	51	NA	A-LINK and Out-and-Down	30
Manitex	3577C	91	30 - 77	n/s	Out-and-Down	35
Manitex	35100C	167	31 - 100	31.6 or 55	Out-and-Down	35
Manitex	35124C	166	31 - 124	31	Out-and-Down	35
Manitex	4077S	87	31 - 77	n/a	Out-and-Down	40
Manitex	4077SHL	87	31 - 77	n/a	Out-and-Down	40
Manitex	40100S	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40100SHL	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40124S	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	40124SHL	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	TC400-127	190	31-127	31-55	Out-and-Down	40
Manitex	TC400-142	205	34-142	31-55	Out-and-Down	40
Manitex	TC450-127	190	31-127	31-55	Out-and-Down	45
Manitex	TC450-142	205	34-142	31-55	Out-and-Down	45
Manitex	4596T	152	31 - 96	32 or 49	Out-and-Down	45
Manitex	45110T	167.5	110	32-49 ft	Out-and-Down	45
Manitex	TC500-96	152	31 - 96	32 or 49	Out-and-Down	50
Manitex	TC500-110	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-110HL	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-155	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-155HL	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-128	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500-128HL	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500X-128	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500X-155	203	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC65131	194	131	30 - 50	Out-and-Down	65
Manitex	TC65159	207	159	38	Out-and-Down	65
National Crane	400B	66	56	n/s	A-type	10
National Crane	500E2	121	71	41	A-type	18
National Crane	600E2	121	90	45	A-type	20
National Crane	600H	99	90	45	HO-type	20
National Crane	800D	152	100	44	A-type	23
National Crane	900A	155	103	44	A-type	26
National Crane	NBT30H-2	119	110	44	HO-type	30
National Crane	1300A	163	110	44	HO-type	30
National Crane	1400H	165	127	30	HO-type	33
National Crane	1400A	172	127	30	HO-type	33



**BOOM TRUCKS** BY MANUFACTURER

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
National Crane	NBT40-2	204	142	55	HO-type	40
National Crane	NBT45-2	204	142	55	HO-type	45
National Crane	NBT50	179	128	45	X-type	50
National Crane	NBT50L	202	151	45	X-type	50
National Crane	NBT55	179	128	45	X-type	55
National Crane	NBT55L	202	151	45	X-type	55
National Crane	NTC55	179	128	45	X-type	55
National Crane	NTC55L	202	151	45	X-type	55
National Crane	NBT60	179	128	NA	X-type	60
National Crane	NBT60L	202	151	45	X-type	60
National Crane	NBT60XL	202	151	45	X-type	60
National Crane	NTC60XL	202	151	45	X-type	60
QMC	5370R	73.8	70	n/s	Out-and-Down	22
QMC	5555S	58.8	55	n/s	Out-and-Down	23
QMC	5555R	58.8	55	n/s	Out-and-Down	23
QMC	4033R	37.4	33	n/s	Out-and-Down	25
QMC	4037R	41.3	37	n/s	Out-and-Down	25
QMC	5037R	34.9	37	n/s	Out-and-Down	29
QMC	5034R	32.2	34	n/s	Out-and-Down	29
QMC	7256R	60.2	56	n/s	Out-and-Down	30
QMC	6070C	73.8	70	30 Fly	Out-and-Down	33
QMC	8470S	73.8	70	30 Fly	Out-and-Down	33
QMC	6082TD	83.9	82	n/s	Out-and-Down	34
QMC	70100TD	95.5	100	n/s	Out-and-Down	35
QMC	7060RSX	56.9	60	n/s	Out-and-Down	36
QMC	8060R	57.1	60	n/s	Out-and-Down	40
QMC	80101S	97	101	n/s	Out-and-Down	40

**BOOM TRUCKS** BY CAPACITY

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Elliott Equipment Company	1047	57	47	NA	A-Frame	10
Elliott Equipment Company	1056	96	56	18 or 30	A-Frame	10
Load King	MU16	87	47	18-20	A Link-Type	10
Load King	10-47	87	47	18-30	A Link-Type	10
National Crane	400B	66	56	n/s	A-type	10
Manitex	1770C	121	27 - 70	23.6 or 40.6	A-Link and Out-and-Down	17
Elliott Equipment Company	1870	120	70	23 or 40	A-Frame	18
Elliott Equipment Company	1881TM	91	81	NA	Out-and-Down	18
National Crane	500E2	121	71	41	A-type	18
Load King	19-51TM	101	51	24-40	Out and down	19
Load King	19-70	120	70	24 - 40	A Link-Type	19
Manitex	1970C	121	27 - 70	23.6 or 40.6	A-Link and Out-and-Down	19
Manitex	2085T	95	18.9-85	N/A	Out-and-Down	20
National Crane	600E2	121	90	45	A-type	20
National Crane	600H	99	90	45	HO-type	20
Manitex	2250C/T	96	20 - 50	20 or 34	A-Link and Out-and-Down	22
Manitex	2262C/T	115	24 - 62	24 or 42	A-Link and Out-and-Down	22
Manitex	2277C	140	29 - 77	29 or 52	A-Link and Out-and-Down	22
Manitex	2281C/T	133	24 - 81	24 or 41	A-Link and Out-and-Down	22
Manitex	2277S	138	29 - 77	29 or 52	Out-and-Down	22
Manitex	22101S tandem axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22
Manitex	22101S single axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22
QMC	5370R	73.8	70	n/s	Out-and-Down	22
National Crane	800D	152	100	44	A-type	23
QMC	5555S	58.8	55	n/s	Out-and-Down	23
QMC	5555R	58.8	55	n/s	Out-and-Down	23

## BOOM TRUCKS BY CAPACITY

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Manitex	2485C/T	95	18.9-85	N/A	Out-and-Down	24
Load King	25-92	146	92	26 - 44	A Link-Type	25
Load King	25-92M	146	92	26-44	Out and down	25
Manitex	124WL	135	37 - 124	n/s	A-Link and Out-and-Down	25
QMC	4033R	37.4	33	n/s	Out-and-Down	25
QMC	4037R	41.3	37	n/s	Out-and-Down	25
Elliott Equipment Company	2695	152	95	26 or 45	A-Frame	26
Elliott Equipment Company	26105	162	105	26 or 45	A-Frame	26
Manitex	26101C	142	29 - 101	26	A-Link and Out-and-Down	26
National Crane	900A	155	103	44	A-type	26
Load King	28-106	163	106	30 - 47	A Link-Type	28
Manitex	2892C	149	28 - 92	26 or 46	A-Link and Out-and-Down	28
QMC	5037R	34.9	37	n/s	Out-and-Down	29
QMC	5034R	32.2	34	n/s	Out-and-Down	29
Altec	AC30-101B	109	101	44	Out-and-Down	30
Elliott Equipment Company	3095	148	95	24 or 41	Out-and-Down	30
Elliott Equipment Company	30105	162	105	26 or 45	Out-and-Down	30
Manitex	30112S	168	33 - 112	26 or 46	Out-and-Down	30
Manitex	3071C	82	28 - 71	n/a	A-Link and Out-and-Down	30
Manitex	30102C	157	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	102WL	159	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	30100C	110.6	100	26-46	A-Link and Out-and-Down	30
Manitex	3051T	62	51	NA	A-LINK and Out-and-Down	30
National Crane	NBT30H-2	119	110	44	HO-type	30
National Crane	1300A	163	110	44	HO-type	30
QMC	7256R	60.2	56	n/s	Out-and-Down	30
National Crane	1400H	165	127	30	HO-type	33
National Crane	1400A	172	127	30	HO-type	33
QMC	6070C	73.8	70	30 Fly	Out-and-Down	33
QMC	8470S	73.8	70	30 Fly	Out-and-Down	33
Elliott Equipment Company	34127	186	127	49	Out-and-Down	34
Elliott Equipment Company	34142	201	142	49	Out-and-Down	34
QMC	6082TD	83.9	82	n/s	Out-and-Down	34
Load King	35-100	165	100	30.5 - 55	Out and down	35
Load King	35-127M	192	127	30.5 - 55	Out and down	35
Load King	35-127RS	192	127	30.5 - 55	Out and down	35
Manitex	3577C	91	30 - 77	n/s	Out-and-Down	35
Manitex	35100C	167	31 - 100	31.6 or 55	Out-and-Down	35
Manitex	35124C	166	31 - 124	31	Out-and-Down	35
QMC	70100TD	95.5	100	n/s	Out-and-Down	35
Elliott Equipment Company	36127	186	127	49	Out-and-Down	36
Elliott Equipment Company	36142	201	142	49	Out-and-Down	36
QMC	7060RSX	56.9	60	n/s	Out-and-Down	36
Altec	AC40E-152S	207	152	49	Out-and-Down	40
Elliott Equipment Company	40105	170	105	32 or 55	Out-and-Down	40
Elliott Equipment Company	40142	207	142	26 or 55	Out-and-Down	40
Load King	40-127RS	192	127	30.5 - 55	Out and down	40
Load King	80-160	228	160	30 - 58	Swing out and down	40
Manitex	4077S	87	31 - 77	n/a	Out-and-Down	40
Manitex	4077SHL	87	31 - 77	n/a	Out-and-Down	40
Manitex	40100S	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40100SHL	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40124S	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	40124SHL	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	TC400-127	190	31-127	31-55	Out-and-Down	40
Manitex	TC400-142	205	34-142	31-55	Out-and-Down	40
National Crane	NBT40-2	204	142	55	HO-type	40
QMC	8060R	57.1	60	n/s	Out-and-Down	40
QMC	80101S	97	101	n/s	Out-and-Down	40



## BOOM TRUCKS BY CAPACITY

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Altec	AC45E-127S	189	127	55	Out-and-Down	45
Elliott Equipment Company	45127	192	127	26 or 55	Out-and-Down	45
Elliott Equipment Company	45142	207	142	26 or 55	Out-and-Down	45
Manitex	TC450-127	190	31-127	31-55	Out-and-Down	45
Manitex	TC450-142	205	34-142	31-55	Out-and-Down	45
Manitex	4596T	152	31 - 96	32 or 49	Out-and-Down	45
Manitex	45110T	167.5	110	32-49 ft	Out-and-Down	45
National Crane	NBT45-2	204	142	55	HO-type	45
Load King	50-155	222	155	33 - 57	Swing out and down	50
Manitex	TC500-96	152	31 - 96	32 or 49	Out-and-Down	50
Manitex	TC500-110	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-110HL	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-155	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-155HL	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-128	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500-128HL	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500X-128	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500X-155	203	38.5 - 185	32 or 39	Out-and-Down	50
National Crane	NBT50	179	128	45	X-type	50
National Crane	NBT50L	202	151	45	X-type	50
National Crane	NBT55	179	128	45	X-type	55
National Crane	NBT55L	202	151	45	X-type	55
National Crane	NTC55	179	128	45	X-type	55
National Crane	NTC55L	202	151	45	X-type	55
Load King	60-150	217	150	33 - 57	Swing out and down	60
National Crane	NBT60	179	128	NA	X-type	60
National Crane	NBT60L	202	151	45	X-type	60
National Crane	NBT60XL	202	151	45	X-type	60
National Crane	NTC60XL	202	151	45	X-type	60
Altec	AC65E-155S	206	155	50	Swing Out-and-Down	65
Manitex	TC65131	194	131	30 - 50	Out-and-Down	65
Manitex	TC65159	207	159	38	Out-and-Down	65

## CRAWLER CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Hook Height (m)	Boom Length Minimum/ Maximum (m/m)	Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
Kobelco	CK800G-3	72.4 @ 3.7	1.2 @ 52	70	15.2/61.0	18	28.7	80
Kobelco	CK850G-3	77 @ 3.0	1.2 @ 52	70	12.2/61.0	18	28.7	85
Kobelco	CK1100G-3	100 @ 3.3	1.6 @ 52	74	12.2/61.0	18	28.7	110
Kobelco	CK1200G-3	109 @ 3.6	1.6 @ 56.5	92	15.2/70.1	52	23.3	120
Kobelco	CK1200G-3 HDO	109 @ 3.6	1.6 @ 56.5	92	15.2/70.1	52	23.3	120
Kobelco	CK1600G-3	145 @ 4.6	1.9 @ 75.0	99	15.2/76.5	53	21.7	160
Kobelco	CK2000G-3	181 @ 3.7	2.0 @ 84.0	105	15.2/85.6	52	18.3	200
Kobelco	CK2750G-3	250 @ 4.6	2.5 @ 86.0	121	15.2/91.7	61	16.7	275
Kobelco	CK3300G-2	300 @ 5.5	2.7 @ 92.0	122	24.0/90.2	66	16.6	330
Kobelco	CK3300G-2 (SHL)	350 @ 8.0	8.7 @ 101.0	171	30.0/102.0	90	16.6	385
Lampson	LTL-350	317	3.9 @ 88.4	103.9	42.6/103.6	42.6	26.8	350
Lampson	LTL-500	453	15.4 @ 76.2	86.1	42.6/85.3	42.6	26.8	500
Lampson	LTL-850	798	8.2 @ 120.4	122.2	48.7/121.9	60.9	26.8	850
Lampson	LTL-1000	907	49.4 @ 121.9	122.2	48.7/121.9	60.9	26.8	1,000
Lampson	LTL-1100	997	70.3 @ 121.9	122.2	48.7/121.9	73.1	26.8	1,100
Lampson	LTL-1200	1430	10 @ 140.2	142.3	67.0/140.2	73.1	26.8	1,500
Lampson	LTL-1500	1430	10 @ 140.2	142.3	67.0/140.2	73.1	26.8	1,500
Lampson	LTL-2600	2358	208 @ 140.2	142.3	67.0/140.2	73.1	26.8	2600
Lampson	LTL-3000	2721	279 @ 140.2	142.3	67.0/140.2	73.1	26.8	3000
Liebherr	HS 8040.1 Duty Cycle	40	1.2 @ 36	45	18,568	50	30.8	44

## CRAWLER CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Load	Load at	Maximum Hook Height (m)	Boom Length	Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
		@ 3m (t)	Maximum Radius (t@m)		Minimum/Maximum (m/m)			
Liebherr	HS 8070.1 Duty Cycle	70	1.1@ 46	54	20/760	56	25	77
Liebherr	LR 1100.1	100	2.1@ 62	98	14/62	62	25	110
Liebherr	HS 8100.1 Duty Cycle	100	1@ 52	60	14/59	62	22.33	110
Liebherr	LR 1110	115.5	2.5@ 65	105.9	14/71	71	22.5	127
Liebherr	HS 8130.1 Duty Cycle	130	0.5@ 50	72	14/53	74	21.66	143
Liebherr	LR 1130.1	137.2@ 3.4m	2.2@ 80	120	17.0/80.0	92.6	35	151
Liebherr	LR 1130.1 unplugged	137.2@ 3.4m	2.2@ 80	120	17.0/80.0	92.6	35	151
Liebherr	LR 1160.1	160@ 3.9m	2.8@ 85.0	129	20.0/87.5	104.9	25	177
Liebherr	LR 1160.1 unplugged	160@ 3.9m	2.8@ 85.1	130	20.0/87.6	104.9	25	177
Liebherr	LR 1200.1	220@ 4.1m	2.3@ 95	142	20.0/89.0	117	26.6	242
Liebherr	LR 1200.1 unplugged	220@ 4.1m	2.3@ 96	143	20.0/89.1	117	26.6	242
Liebherr	HS 8200 Duty Cycle	200@ 4.8	2.6@ 67		20/68		21.7	220
Liebherr	LR 1250.1	250@ 4.1m	2.3@ 95	142	20.0/86.0	117	26.6	275
Liebherr	LR 1250.1 unplugged	250@ 4.1m	2.3@ 96	143	20.0/86.1	117	26.6	275
Liebherr	LR 1300.1 SX	300.5@ 4.3m	3.3@ 105	164	20.0/92.0	123.13	21.6	331
Liebherr	HS 8300.2	300	2.9@ 60	72	20/68	68	25	323
Liebherr	LR 1350/1	350@ 6m	11.8@ 110	152	18/120	90	27	400
Liebherr	LR 1400 SX	400@ 4.9		172.6	20/95	113		440
Liebherr	LR 1500	500@ 7.5m	3.3@ 144	164	36/132	84	25	550
Liebherr	LR 1700-1.0	700@ 8.5m	9.2@ 160	196	24/165	96	20	770
Liebherr	LR 1700-1.0W	700@ 8.5m		198	24/165	96		770
Liebherr	LR 1800-1.0	800@ 9m	7.1@ 164	202	36/180	102	25	880
Liebherr	LR 11000	1000@ 11m	6.1@ 180	220	18/168	114	23.5	1,200
Liebherr	LR 11350	1350@ 12m	30.6@ 140	220	30/150	84	18	1,500
Liebherr	LR 12500-1.0	2500@ 10m		200	60/162	108	18	2,750
Liebherr	LR 13000	3000@ 12m	29@ 200	236	60/144	126	n/s	3,300
Link-Belt Cranes	138 HSL	73	0.7@ 57.9	58.5	12.2/61	18.3	32.2	80
Link-Belt Cranes	218lv	100	1.2@ 61	67.7	12.19/70.1	22.9	32.2	110
Link-Belt Cranes	228 HSL	117.9	1.4@ 61	85.7	13.72/71.65	22.9	32.2	130
Link-Belt Cranes	238 HSL	136	1.4@ 70.1	93.9	15.2/79.3	24.4	26.8	150
Link-Belt Cranes	248 HSL	181	1.1@ 76.2	105.7	16.7/86.6	30.5	23.3	200
Link-Belt Cranes	298 Series 2	227	1.5@ 86.4	110.7	18.3/88.3	27.4	26.6	250
Link-Belt Cranes	348 Series 2	272.2	1.1@ 82.3	132.6	21.3/108.2	42.7	26.6	300
Manitowoc	MLC80A-1	72.5	1.9 @ 50	62.3	19/61	18.3	45.6	80
Manitowoc	MLC90A-1	79.3	1.9 @ 50	62.3	19/61	18.3	45.6	90
Manitowoc	MLC100A-1	90.6	1.9 @ 50	62.3	16/61	18.3	45.6	100
Manitowoc	MLC100-1	100	1.9 @ 50	62.3	13/61	18.3	45.6	110
Manitowoc	MLC150-1	150	1.3 @ 66.5	78.9	15/78	24.4	35	165
Manitowoc	MLC165-1	165	1.7 @ 62	51.8	15/84	24.4	51.7	181
Manitowoc	14000	200	3.2 @ 84	57.8	20/89	21.3	30	220
Manitowoc	MLC250	250	2.2 @ 88	94.4	21/88	15.2	26.8	275
Manitowoc	MLC300	300	5.2 @ 80	102	30/102	30	21.7	330
Manitowoc	MLC650	650	8.8 @ 82	101	32/104	26	21.7	716
Manitowoc	31000	2300	48 @ 150	42	55/110	24	10	2,535
SANY America	SCA1000A	100@ 3.8	1.5@ 58	73.9	13/64	22.5	32.2	110
SANY America	SCA1350A	136@ 4.6	2.1@ 78	96	16/76	52	21.5	150
SANY America	SCA2600A	272.2@ 5	1.5@ 85	126.5	20/92	63	16.6	300
SANY America	SCA4000A	400@ 6	28.9@ 108	162.5	24/123	81	16.1	440
Tadano	CC 24.400-1	400	5.5 @ 142	166	24 / 126	84	33.33	440
Tadano	CC 28.600-2	600	9.3 @ 156	189	24/138	96	18.33	660
Tadano	CC 38.650-1	650	15.5 @ 161	193	36 / 171	96	18.33	715
Tadano	PC 38.650-1	650	15.5 @ 161	193	36/ 171	96	on outriggers	715
Tadano	CC 68.1250-1	1250	9.0 @ 174	206	36/ 168	108	18.33	1,375
Tadano	CC 88.1600-1	1600	14.0@ 174	239	54 / 156	120	13.33	1,760
Tadano	CC 88.3200-1	3200	123@ 129	234	54 / 156	117	13.33	3,525
Zoomlion	ZCC1100	100@ 3.2	1.5@ 55	67	13/67	18	21	110
Zoomlion	ZCC2600	260@ 5	2.4@ 92	95	20/83	60	16.67	286



**CRAWLER CRANES** BY CAPACITY

Manufacturer	Model	Maximum Load	Load at	Maximum Hook	Boom Length	Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
		@ 3m (t)	Maximum Radius (t@m)		Minimum/Maximum (m/m)			
Liebherr	HS 8040.1 Duty Cycle	40	1.2@ 36	45	18,568	50	30.8	44
Liebherr	HS 8070.1 Duty Cycle	70	1.1@ 46	54	20,760	56	25	77
Kobelco	CK800G-3	72.4 @ 3.7	1.2 @ 52	70	15.2/61.0	18	28.7	80
Link-Belt Cranes	138 HSL	73	0.7@ 57.9	58.5	12.2/61	18.3	32.2	80
Manitowoc	MLC80A-1	72.5	1.9 @ 50	62.3	19/61	18.3	45.6	80
Kobelco	CK850G-3	77 @ 3.0	1.2 @ 52	70	12.2/61.0	18	28.7	85
Manitowoc	MLC90A-1	79.3	1.9 @ 50	62.3	19/61	18.3	45.6	90
Manitowoc	MLC100A-1	90.6	1.9 @ 50	62.3	16/61	18.3	45.6	100
Kobelco	CK1100G-3	100 @ 3.3	1.6 @ 52	74	12.2/61.0	18	28.7	110
Liebherr	LR 1100.1	100	2.1@ 62	98	14/62	62	25	110
Liebherr	HS 8100.1 Duty Cycle	100	1@ 52	60	14/59	62	22.33	110
Link-Belt Cranes	218lv	100	1.2@ 61	67.7	12.19/70.1	22.9	32.2	110
Manitowoc	MLC100-1	100	1.9 @ 50	62.3	13/61	18.3	45.6	110
SANY America	SCA1000A	100@ 3.8	1.5@ 58	73.9	13/64	22.5	32.2	110
Zoomlion	ZCC1100	100@ 3.2	1.5@ 55	67	13/67	18	21	110
Kobelco	CK1200G-3	109 @ 3.6	1.6 @ 56.5	92	15.2/70.1	52	23.3	120
Kobelco	CK1200G-3 HDO	109 @ 3.6	1.6 @ 56.5	92	15.2/70.1	52	23.3	120
Liebherr	LR 1110	115.5	2.5@ 65	105.9	14/71	71	22.5	127
Link-Belt Cranes	228 HSL	117.9	1.4@ 61	85.7	13.72/71.65	22.9	32.2	130
Liebherr	HS 8130.1 Duty Cycle	130	0.5@ 50	72	14/53	74	21.66	143
Link-Belt Cranes	238 HSL	136	1.4@ 70.1	93.9	15.2/79.3	24.4	26.8	150
SANY America	SCA1350A	136@ 4.6	2.1@ 78	96	16/76	52	21.5	150
Liebherr	LR 1130.1	137.2@ 3.4m	2.2@ 80	120	17.0/80.0	92.6	35	151
Liebherr	LR 1130.1 unplugged	137.2@ 3.4m	2.2@ 80	120	17.0/80.0	92.6	35	151
Kobelco	CK1600G-3	145 @ 4.6	1.9 @ 75.0	99	15.2/76.5	53	21.7	160
Manitowoc	MLC150-1	150	1.3 @ 66.5	78.9	15/78	24.4	35	165
Liebherr	LR 1160.1	160@ 3.9m	2.8@ 85.0	129	20.0/87.5	104.9	25	177
Liebherr	LR 1160.1 unplugged	160@ 3.9m	2.8@ 85.1	130	20.0/87.6	104.9	25	177
Manitowoc	MLC165-1	165	1.7 @ 62	51.8	15/84	24.4	51.7	181
Kobelco	CK2000G-3	181 @ 3.7	2.0 @ 84.0	105	15.2/85.6	52	18.3	200
Link-Belt Cranes	248 HSL	181	1.1@ 76.2	105.7	16.7/86.6	30.5	23.3	200
Liebherr	HS 8200 Duty Cycle	200@ 4.8	2.6@ 67		20/68		21.7	220
Manitowoc	14000	200	3.2 @ 84	57.8	20/89	21.3	30	220
Liebherr	LR 1200.1	220@ 4.1m	2.3@ 95	142	20.0/89.0	117	26.6	242
Liebherr	LR 1200.1 unplugged	220@ 4.1m	2.3@ 96	143	20.0/89.1	117	26.6	242
Link-Belt Cranes	298 Series 2	227	1.5@ 86.4	110.7	18.3/88.3	27.4	26.6	250
Kobelco	CK2750G-3	250 @ 4.6	2.5 @ 86.0	121	15.2/91.7	61	16.7	275
Liebherr	LR 1250.1	250@ 4.1m	2.3@ 95	142	20.0/86.0	117	26.6	275
Liebherr	LR 1250.1 unplugged	250@ 4.1m	2.3@ 96	143	20.0/86.1	117	26.6	275
Manitowoc	MLC250	250	2.2 @ 88	94.4	21/88	15.2	26.8	275
Zoomlion	ZCC2600	260@ 5	2.4@ 92	95	20/83	60	16.67	286
Link-Belt Cranes	348 Series 2	272.2	1.1@ 82.3	132.6	21.3/108.2	42.7	26.6	300
SANY America	SCA2600A	272.2@ 5	1.5@ 85	126.5	20/92	63	16.6	300
Liebherr	HS 8300.2	300	2.9@ 60	72	20/68	68	25	323
Kobelco	CK3300G-2	300 @ 5.5	2.7 @ 92.0	122	24.0/90.2	66	16.6	330
Manitowoc	MLC300	300	5.2 @ 80	102	30/102	30	21.7	330
Liebherr	LR 1300.1 SX	300.5@ 4.3m	3.3@ 105	164	20.0/92.0	123.13	21.6	331
Lampson	LTL-350	317	3.9 @ 88.4	103.9	42.6/103.6	42.6	26.8	350
Kobelco	CK3300G-2 (SHL)	350 @ 8.0	8.7 @ 101.0	171	30.0/102.0	90	16.6	385
Liebherr	LR 1350/1	350@ 6m	11.8@ 110	152	18/120	90	27	400
Liebherr	LR 1400 SX	400@ 4.9		172.6	20/95	113		440
SANY America	SCA4000A	400@ 6	28.9@ 108	162.5	24/123	81	16.1	440
Tadano	CC 24.400-1	400	5.5 @ 142	166	24 / 126	84	33.33	440
Lampson	LTL-500	453	15.4 @ 76.2	86.1	42.6/85.3	42.6	26.8	500
Liebherr	LR 1500	500@ 7.5m	3.3@ 144	164	36/132	84	25	550
Tadano	CC 28.600-2	600	9.3 @ 156	189	24/138	96	18.33	660
Tadano	CC 38.650-1	650	15.5 @ 161	193	36 / 171	96	18.33	715
Tadano	PC 38.650-1	650	15.5 @ 161	193	36/ 171	96	on outriggers	715

## CRAWLER CRANES BY CAPACITY

Manufacturer	Model	Maximum Load	Load at	Maximum Hook Height (m)	Boom Length	Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
		@ 3m (t)	Maximum Radius (t@m)		Minimum/Maximum (m/m)			
Manitowoc	MLC650	650	8.8 @ 82	101	32/104	26	21.7	716
Liebherr	LR 1700-1.0	700@ 8.5m	9.2@ 160	196	24/165	96	20	770
Liebherr	LR 1700-1.0W	700@ 8.5m		198	24/165	96		770
Lampson	LTL-850	798	8.2 @ 120.4	122.2	48.7/121.9	60.9	26.8	850
Liebherr	LR 1800-1.0	800@ 9m	7.1@ 164	202	36/180	102	25	880
Lampson	LTL-1000	907	49.4 @ 121.9	122.2	48.7/121.9	60.9	26.8	1,000
Lampson	LTL-1100	997	70.3 @ 121.9	122.2	48.7/121.9	73.1	26.8	1,100
Liebherr	LR 11000	1000@ 11m	6.1@ 180	220	18/168	114	23.5	1,200
Tadano	CC 68.1250-1	1250	9.0 @ 174	206	36/ 168	108	18.33	1,375
Lampson	LTL-1200	1430	10 @ 140.2	142.3	67.0/140.2	73.1	26.8	1,500
Lampson	LTL-1500	1430	10 @ 140.2	142.3	67.0/140.2	73.1	26.8	1,500
Liebherr	LR 11350	1350@ 12m	30.6@ 140	220	30/150	84	18	1,500
Tadano	CC 88.1600-1	1600	14.0@ 174	239	54 / 156	120	13.33	1,760
Manitowoc	31000	2300	48 @ 150	42	55/110	24	10	2,535
Lampson	LTL-2600	2358	208 @ 140.2	142.3	67.0/140.2	73.1	26.8	2600
Liebherr	LR 12500-1.0	2500@ 10m		200	60/162	108	18	2,750
Lampson	LTL-3000	2721	279 @ 140.2	142.3	67.0/140.2	73.1	26.8	3000
Liebherr	LR 13000	3000@ 12m	29@ 200	236	60/144	126	n/s	3,300
Tadano	CC 88.3200-1	3200	123@ 129	234	54 / 156	117	13.33	3,525

## TELESCOPIC CRAWLERS BY MANUFACTURER

Manufacturer	Model	Maximum Load	Load at	Maximum Hook Height (m)	Boom Length	Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
		@ 3m (t)	Maximum Radius (t@m)		Minimum/Maximum (m/m)			
Grove	GHC30	30@ 2.5m	0.8 @ 30	40.2	10/25.2	13	50	30
Grove	GHC75	70@ 2m	0.7 @ 44	52.7	11.0/36	15	45	75
Grove	GHC50	45	0.8 @ 36	45.4	9.4/30.4	13	41.5	50
Grove	GHC55	50@ 2m	0.8 @ 36	45.4	9.4/30.4	13	41.5	55
Grove	GHC85	85	0.6 @ 50	60.7	11.0/42.0	15	41.5	85
Grove	GHC110	100	0.9 @ 56	64	12.3/46.8	15	41.5	110
Grove	GHC130	120@ 2.5m	1.0 @ 62	70	12.6/40.2	27	41.5	132
Grove	GHC140	127	1.1 @ 64	70	12.3/52.2	15	41.5	140
Liebherr	LTR 1060	60	0.5@ 50	55	10.2/40.0	16	50	65
Liebherr	LTR 1220	220	0.8@ 88	101	13.3/60.0	43	31.7	250
Liebherr	LTR 1040	42,3	0.5@ 38	55	10.2/40	16	50	50
Liebherr	LTR 1100	100	0.9@ 60	83	11.5/52.0	19	46.6	110
Liebherr	LTR 1150	150		83	11.5/52.0	33	37.5	170
Link-Belt Cranes	TCC-550	51	0.4@ 46	49.5	11.2/35.1	15.6	53.3	55
Link-Belt Cranes	TCC-800	75	0.5@ 48	53.1	11.8/36.6	17.7	35	80
Link-Belt Cranes	TCC-1200	110	.6@ 56	64.3	12.2/45.7	16.8	53.3	120
Link-Belt Cranes	TCC-1400	123	.6@ 60	75.5	12.9/59.5	16.8	53.3	140
Link-Belt Cranes	TCC-2500	230	.9@ 86	102.4	13.3/68	35.7	42.9	250
Maeda	CC1485	n/s	16.1	22	n/s	n/s	n/s	6.61
Manitex Valla	20 TRX	2 t	880 lbs @ 9 ft	14.5 ft	1.6 & 4	n/s	53.3	2.2
Manitex Valla	90 TRX	9 t	4,138 lbs @ 18 ft	28 ft	n/s	n/s	53.3	9.9
SANY America	SCA900TB	90@ 3	1.8@ 36	64	12.2/47	17.5	42.9	90
SANY America	SCA1600TB	160@ 2.7	1.1@ 59.4	64	12.9/60	15.5	42.9	160
Tadano	GTC-2000	156.5	1.1 @ 62	85	12.9/60	23	38.3	172
Tadano	GTC-1600	110.6	1.0 @ 64	92	13.1/61	32	42.9	160
Tadano	GTC-350	32	0.4 @ 38	40	10.9/27.2	27.2	64.3	35
Tadano	GTC-550	45	0.2 @ 41	49.9	11.0/34.7	15.2	48.3	55
Tadano	GTC-700	62	1.0 @ 47	55.2	11.5/36	17.7	61.7	70
Tadano	GTC-900	81	0.4 @ 58	60.4	11.5/43	17.7	56.3	90
Tadano	GTC-1300	120	1.0 @ 54	79	12.8/47.2	32	37.6	130



## TELESCOPIC CRAWLERS BY CAPACITY

Manufacturer	Model	Load at			Boom Length Minimum/ Maximum (m/m)	Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Maximum Hook Height (m)				
Manitex Valla	20 TRX	2 t	880 lbs @ 9 ft	14.5 ft	1.6 & 4	n/s	53.3	2.2
Maeda	CC1485	n/s	16.1	22	n/s	n/s	n/s	6.61
Manitex Valla	90 TRX	9 t	4,138 lbs @ 18 ft	28 ft	n/s	n/s	53.3	9.9
Grove	GHC30	30@2.5m	0.8 @ 30	40.2	10/25.2	13	50	30
Tadano	GTC-350	32	0.4 @ 38	40	10.9/27.2	27.2	64.3	35
Grove	GHC50	45	0.8 @ 36	45.4	9.4/30.4	13	41.5	50
Liebherr	LTR 1040	42,3	0.5@38	55	10.2/40	16	50	50
Grove	GHC55	50@2m	0.8 @ 36	45.4	9.4/30.4	13	41.5	55
Link-Belt Cranes	TCC-550	51	0.4@46	49.5	11.2/35.1	15.6	53.3	55
Tadano	GTC-550	45	0.2 @ 41	49.9	11.0/34.7	15.2	48.3	55
Liebherr	LTR 1060	60	0.5@50	55	10.2/40.0	16	50	65
Tadano	GTC-700	62	1.0 @ 47	55.2	11.5/36	17.7	61.7	70
Grove	GHC75	70@2m	0.7 @ 44	52.7	11.0/36	15	45	75
Link-Belt Cranes	TCC-800	75	0.5@48	53.1	11.8/36.6	17.7	35	80
Grove	GHC85	85	0.6 @ 50	60.7	11.0/42.0	15	41.5	85
SANY America	SCA900TB	90@3	1.8@36	64	12.2/47	17.5	42.9	90
Tadano	GTC-900	81	0.4 @ 58	60.4	11.5/43	17.7	56.3	90
Grove	GHC110	100	0.9 @ 56	64	12.3/46.8	15	41.5	110
Liebherr	LTR 1100	100	0.9@60	83	11.5/52.0	19	46.6	110
Link-Belt Cranes	TCC-1200	110	.6@56	64.3	12.2/45.7	16.8	53.3	120
Tadano	GTC-1300	120	1.0 @ 54	79	12.8/47.2	32	37.6	130
Grove	GHC130	120@2.5m	1.0 @ 62	70	12.6/40.2	27	41.5	132
Grove	GHC140	127	1.1 @ 64	70	12.3/52.2	15	41.5	140
Link-Belt Cranes	TCC-1400	123	.6@60	75.5	12.9/59.5	16.8	53.3	140
SANY America	SCA1600TB	160@2.7	1.1@59.4	64	12.9/60	15.5	42.9	160
Tadano	GTC-1600	110.6	1.0 @ 64	92	13.1/61	32	42.9	160
Liebherr	LTR 1150	150		83	11.5/52.0	33	37.5	170
Tadano	GTC-2000	156.5	1.1 @ 62	85	12.9/60	23	38.3	172
Liebherr	LTR 1220	220	0.8@88	101	13.3/60.0	43	31.7	250
Link-Belt Cranes	TCC-2500	230	.9@86	102.4	13.3/68	35.7	42.9	250

## MEGA CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Load (t)	Load at Maximum Radius (t@m)	Maximum Hook Height (m)	Boom Length Minimum/ Maximum (m/m)	Capacity Metric tons	Capacity US Tons
Bigge Crane and Rigging	Bigge145D	6820	390t @ 203	220m (with fixed jib)	91m minimum	6820	7500
Bigge Crane and Rigging	Bigge160D	6820	545t @ 203	220m (with fixed jib)	91m minimum	6820	7500
Deep South	VersaCrane TC 36000/2	2721	1,044t @ 55M	228 M	88.3M Min./ 228M Max.	2721	3000
Lampson	LTL-2600	2358	208 @ 140.2	142.3	67.0/140.2	2358	2600
Lampson	LTL-3000	2721	279 @ 140.2	142.3	67.0/140.2	2680	3000
Liebherr	LR 12500-1.0	2500@10m		200	60/162	2500	2750
Liebherr	LR 13000	3000	29@200	236	60/144	3000	3300
Mammoet	MSG80-DS	3100	230t @ 120m	142m	50m/142m	3100	3420
Mammoet	PTC150-DS	4500	265t @ 180m	208m	83m/206m	4500	5000
Mammoet	PTC210-DS	4500	305t @ 200m	248m	83m/246m	4500	5000
Mammoet	SK190	4300	245t @ 196m	213m	89m/242m	4300	4740
Mammoet	SK350	5000	355t @ 225m	231m	89m/242m	5000	5511
Mammoet	SK6,000	6100	705t @ 203m	183m	131m/175m	6100	6725
Manitowoc	31000	2300	80.1 @ 130	154.6	55/150	2300	2535
Sarens	SGC-90	2325	225 ton@180m	180m	MB 100 – 120 - 130	2325	2563
			(MB 130m + LDJ 59.5m)	(MB 130m + LDJ 59.5m)			
Sarens	SGC-140	3200	228ton@200m	210m	MB 88.9 – 118 - 130	3200	3527
			(MB 160m + HDJ 99.5m)	(MB 130m + HDJ 99.5m)			

## MEGA CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Load (t)	Load at Maximum Radius (t@m)	Maximum Hook Height (m)	Boom Length Minimum/Maximum (m/m)	Capacity Metric tons	Capacity US Tons
Sarens	SGC-120	3200	150ton@ 200m (MB 160m + HDJ 99.5m)	210m (MB 130m + HDJ 99.5m)	MB 88.9 – 118 - 130	3200	3527
Sarens	SGC-250	5000	305ton @ 265m (MB 160m + HDJ 99.5m)	235m (MB 160m + HDJ 99.5m)	MB 118 - 160	5000	5511
Tadano	CC 88.3200-1	3200	123@ 129	222	54 / 234	3197	3525

## MEGA CRANES BY CAPACITY

Manufacturer	Model	Maximum Load (t)	Load at Maximum Radius (t@m)	Maximum Hook Height (m)	Boom Length Minimum/Maximum (m/m)	Capacity Metric tons	Capacity US Tons
Manitowoc	31000	2300	80.1 @ 130	154.6	55/150	2300	2535
Sarens	SGC-90	2325	225 ton@ 180m (MB 130m + LDJ 59.5m)	180m (MB 130m + LDJ 59.5m)	MB 100 – 120 - 130	2325	2563
Lampson	LTL-2600	2358	208 @ 140.2	142.3	67.0/140.2	2358	2600
Liebherr	LR 12500-1.0	2500@ 10m		200	60/162	2500	2750
Lampson	LTL-3000	2721	279 @ 140.2	142.3	67.0/140.2	2680	3000
Deep South	VersaCrane TC 36000/2	2721	1,044t @ 55M	228 M	88.3M Min./ 228M Max.	2721	3000
Liebherr	LR 13000	3000	29@ 200	236	60/144	3000	3300
Mammoet	MSG80-DS	3100	230t @ 120m	142m	50m/142m	3100	3420
Tadano	CC 88.3200-1	3200	123@ 129	222	54 / 234	3197	3525
Sarens	SGC-140	3200	228ton@ 200m (MB 160m + HDJ 99.5m)	210m (MB 130m + HDJ 99.5m)	MB 88.9 – 118 - 130	3200	3527
Sarens	SGC-120	3200	150ton@ 200m (MB 160m + HDJ 99.5m)	210m (MB 130m + HDJ 99.5)	MB 88.9 – 118 - 130	3200	3527
Mammoet	SK190	4300	245t @ 196m	213m	89m/242m	4300	4740
Mammoet	PTC150-DS	4500	265t @ 180m	208m	83m/206m	4500	5000
Mammoet	PTC210-DS	4500	305t @ 200m	248m	83m/246m	4500	5000
Mammoet	SK350	5000	355t @ 225m	231m	89m/242m	5000	5511
Sarens	SGC-250	5000	305ton @ 265m (MB 160m + HDJ 99.5m)	235m (MB 160m + HDJ 99.5m)	MB 118 - 160	5000	5511
Mammoet	SK6,000	6100	705t @ 203m	183m	131m/175m	6100	6725
Bigge Crane and Rigging	Bigge145D	6820	390t @ 203	220m (with fixed jib)	91m minimum	6820	7500
Bigge Crane and Rigging	Bigge160D	6820	545t @ 203	220m (with fixed jib)	91m minimum	6820	7500

## LUFFING JIB BY MANUFACTURER

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
COMANSA	LCL165 8t	8	8 @ 25	2.5 @ 50	820	30 to 50	310	0	56.6	87
COMANSA	LCL 165 12t	12	12 @ 15	2.3 @ 50	640	30 to 50	330	0	56.6	87
COMANSA	LCL 190 12t	12	12 @ 20	1.5 @ 60	640	30 to 60	330	0	63.1	87
COMANSA	LCL 280 12t	12	12 @ 30	2.9 @ 60	640	30 to 60	330	0	53.2	87
COMANSA	LCL 310 12t	12	12 @ 30	3.5 @ 60	640	30 to 60	330	0	59	87
COMANSA	LCL 190 18t	18	18 @ 15	1.5 @ 60	640	30 to 60	224	0	63.1	87
COMANSA	LCL 280 18t	18	18 @ 25	2.9 @ 60	640	30 to 60	224	0	53.2	87
COMANSA	LCL 310 18t	18	18 @ 20	3.5 @ 60	640	30 to 60	224	0	59	87
COMANSA	LCL 280 24t	24	24 @ 15	2.6 @ 60	725	30 to 60	204	0	53.2	87



## LUFFING JIB BY MANUFACTURER

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
COMANSA	LCL 310 24t	24	24 @ 15	3.2 @ 60	725	30 to 60	204	0	59	87
COMANSA	LCL 560 36t	36	36 @ 20	5.1 @ 65	610	30 to 65	153	0	75.3	87
COMANSA	LCL 700 50t	50	50 @ 20	7.5 @ 65	1270	30 to 65	169	0	69.8	87
COMANSA	LCL 700 64t	64	64 @ 15	7.2 @ 65	1015	30 to 65	129	0	69.8	87
COMANSA	LCH 300 16t	16	16 @ 21.2	3.4 @ 60	350	30 to 60	164	0	57.2	86
ENG	ETH106 (Hydraulic special luffer)	8	8@20.1	1.3@41	292	14	154	5	85.5	87
ENG	ETH186 (Hydraulic special luffer)	12	12@26	1.9@50	450	14	120	5	105.5	87
ENG	ETH276 (Hydraulic special luffer)	16	16@27.8	2.6@56	454	20	150	5	105.5	87
ENG	EDL110 (Hybrid Luffer/Flat top)	8	8@23.4	1.71@44.5	292	12	154	5	84.6	87
ENG	EDL150 (Hybrid Luffer/Flat top)	10	10@26.3	2.53@50.5	267	18	130	5	93.4	87
ENG	EDL230 (Hybrid Luffer/Flat top)	16	16@25.7	2.7@56.5	454	23	150	5	91	87
ENG	ETL243	16	16@24	2.59@56	454	29	150	5	94.5	85
ENG	ETL303	20	20@26	3.19@60	545	29	216	6	90.8	85
Favelle Favco	M220D	32	32@10	3.0@53	n/s	27/55	210	n/s	56	85
Favelle Favco	M380F	32	32@15	3.0@63	n/s	36/64	250	n/s	56	85
Favelle Favco	M440D	50	50@13	2.7@65	n/s	36/69	158	n/s	56	85
Favelle Favco	MK440E	50	50@13	2.7@65	n/s	32/69	160	n/s	56	85
Favelle Favco	M760D	64	64@15	4.0@70	n/s	36/73	122	n/s	56	85
Favelle Favco	MK760E	64	64@12	4.0@70	n/s	36/73	150	n/s	56	85
Favelle Favco	M900F	64	64@15	7.5@72	n/s	36/73	111	n/s	56	85
Favelle Favco	M1280D	150	150@17.4	12.1@81	n/s	36/83	110	n/s	72	85
Favelle Favco	M2480D	330	330@14.4	20.6@91	n/s	27/93	95	n/s	76	85
Jaso	J80PA	5	5.0@18.3	1.3@40	246	25.5	100	16	75.3	n/s
Jaso	J118HPA (Hydraulic luffing crane)	6	6.0@25.1	1.6@45	452	30	80	14	68	n/s
Jaso	J168HPA (Hydraulic luffing crane)	6	6.0@30.0	2.5@50	434	30	80	14	70.1	n/s
Jaso	J198HPA (Hydraulic luffing crane)	18	18.0@13.7	1.8@55	588	30	227	12	70.1	n/s
Jaso	J80PA.RC	8	8.0@14.2	2.75@30.5	800	25.5	76	19	na	n/s
Jaso	J138PA	8	8.0@22.4	2.25@45.0	416	30	140	15	66.3	n/s
Jaso	J208PA	18	18.0@18.5	1.5@60	568	30	366	12	72.1	n/s
Jaso	J265PA	18	18.0@21.3	2.2@60	630	30	366	19	72.1	n/s
Jaso	J280PA.2R	18	18.0@26.2	3.0@60	818	30	220	19	74.3	n/s
Jaso	J280PA.24.2R	24	24@20.9	2.7@60	828	30	218	14	72.6	n/s
Jaso	J438PA	32	32@20.8	3.0@65	874	30	181	18	74.3	n/s
Jaso	J380PA	36	36@18.8	3.0@65	874	30	181	9	74.3	n/s
Jaso	J450PA	36	36@18.6	3.0@65	674	30	188	9	74.3	n/s
Jaso	J480PA	36	36@20.3	3.8@65	874	30	218	9	74.3	n/s
Jaso	J638PA	32	32@26.9	6.5@65	650	30	188	18	70.7	n/s
Jaso	J780PA.60	60	60@20.7	6.0@70	796	30	160	10	86.1	n/s
Jaso	J780PA.64	64	64@18.9	6.0@70	912	30	188	11	86.1	n/s
Jaso	J780PA	75	75@16.8	5.7@70	1007	30	310	8	86.1	n/s
Jost Cranes	JTL 68.4s	4	4t @ 20m	2t @ 35m	n/s	25	124	15	100	87
Jost Cranes	JTL 68.4	4	4t @ 20m	1.5t @ 40m	n/s	25	124	15	100	87
Jost Cranes	JTL 78.4	4	4t @ 22m	1.6t @ 40m	n/s	25	200	33	100	87
Jost Cranes	JTL 98.4	4	4t @ 22m	1.5t @ 45m	n/s	30	200	33	100	87
Jost Cranes	JTL 78.6	6	6t @ 14.6m	1.5t @ 40m	n/s	25	184	17	100	87
Jost Cranes	JTL 98.6	6	6t @ 15m	1.4t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 108.6	6	6t @ 20m	1.6t @ 45m	n/s	30	124	11	100	87
Jost Cranes	JTL 118.6	6	6t @ 20m	1.8t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 158.6	6	6t @ 27m	2.4t @ 50m	n/s	27.3	124	11	100	87
Jost Cranes	JTL 118.8	8	8t @ 15.9 m	1.7t @ 45m	n/s	30	188	21	100	87
Jost Cranes	JTL 168.8	8	8t @ 21.7m	2.0t @ 50m	n/s	27.3	188	21	100	87
Jost Cranes	JTL 168.10	10	10t @ 17.3m	2.3t @ 50m	n/s	27.3	158	20	100	87
Jost Cranes	JTL 208.12	12	12t @ 19.7m	2.6t @ 55m	n/s	30	110	12	100	87
Jost Cranes	JTL 218.12	12	12t @ 19.4m	3.3t @ 50m	n/s	30	188	12	100	87
Jost Cranes	JTL 268.12	12	12t @ 23m	3.4t @ 55m	n/s	30	188	15	100	87
Jost Cranes	JTL 318.12	12	12t @ 25m	4.5t @ 55m	n/s	30	188	15	100	87
Jost Cranes	JL 226.12	12	12t @ 20.4m	2.2t @ 60m	n/s	30	188	15	100	87
Jost Cranes	JL 266.12	12	12t @ 20.4m	3.1t @ 60m	n/s	30	188	15	100	87

## LUFFING JIB BY MANUFACTURER

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
Jost Cranes	JTL 268.16	16	16t @ 17.5m	3.3t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JTL 318.16	16	16t @ 20m	4.4t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JL 226.16	16	16t @ 15.4m	2.1t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 256.16	16	16t @ 18.5m	3.1t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 266.16	16	16t @ 18.3m	3.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 316.16	16	16t @ 22.1m	4.0t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 326.16	16	16t @ 22m	4.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 366.16	16	16t @ 25.3m	4.4t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 326.20	20	20t @ 17.7m	3.9t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 366.20	20	20t @ 20.3m	4.3t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 426.20	20	20t @ 24.2m	5.5t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 526.20	20	20t @ 29m	5.3t @ 65m	n/s	30	154	16	100	87
Jost Cranes	JL 416.24	24	24t @ 20.3m	5.1t @ 60m	n/s	30	130	16	100	87
Jost Cranes	JL 426.24	24	24t @ 20.1m	5.3t @ 60m	n/s	30	172	15	100	87
Jost Cranes	JL 526.24	24	24t @ 24m	5.1t @ 65m	n/s	30	172	15	100	87
Jost Cranes	JL 626.24	24	24t @ 30m	7.0t @ 65m	n/s	30	172	15	100	87
Jost Cranes	JL 616.32	32	32t @ 23.2m	9.1t @ 60m	n/s	30	134	17	100	87
Jost Cranes	JL 626.32	32	32t @ 22.6m	6.8t @ 65m	n/s	30	188	21	100	87
Liebherr	190 HC-L 8/16 Litronic	16	16@18.2	2.5@55.0	892	30 to 55	363	0	60.3	n/s
Liebherr	230 HC-L 8/16 Litronic	16	16@20.3	1.9@60.0	892	30 to 60	363	0	85.1	n/s
Liebherr	258 HC-L 10/18 Fibre	18	18@19.3	2.5@60	755	30 to 65	265	0	85.1	n/s
Liebherr	280 HC-L 12/24 Litronic	24	24@20.2	3.2@60.0	1290	30 to 60	261	0	79.3	n/s
Liebherr	357 HC-L 12/24 Litronic	24	24@24.0	4.5@60.0	1290	30 to 60	330	0	70.6	n/s
Liebherr	542 HC-L 12/24 Litronic	24	24@30.8	4.8@65.0	1290	30 to 65	330	0	64.8	n/s
Liebherr	280 HC-L 16/28 Litronic	28	28@17.0	3.0@60.0	1143	30 to 60	194	0	79.3	n/s
Liebherr	357 HC-L 18/32 Litronic	32	32@18.2	4.1@60.0	1101	30 to 60	213	0	70.6	n/s
Liebherr	542 HC-L 18/36 Litronic	36	36@20.8	4.3@65.0	1101	30 to 65	213	0	64.8	n/s
Liebherr	710 HC-L 32/64 Litronic	64	64@16.4	7.2@65.0	1067	30 to 65	194	0	74.8	n/s
Liebherr	710 HC-L 32/64 Litronic Fly-Jib	64	64@15.7	7.0@63.1	1067	30 to 65	194	0	74.8	n/s
Potain	MRH 125	8	8 @ 22	2@50	n/s	30	118	n/s	64.5	87
Potain	MRH 175	10	10 @ 22.5	1.5 @ 55	n/s	30	215.5	n/s	64.5	87
Potain	MR 229	14	14 @ 20.3	2.7 @ 55	n/s	30	207	n/s	60.9	86
Potain	MR 295 H20	20	20@19.4	2.7@60	n/s	30	195	n/s	64.5	86
Potain	MR 418 A	24	24@20	5@60	n/s	30	254	n/s	86.4	86
Potain	MR 298	24	24 @ 16,8	2,4 @ 60	n/s	30	210	n/s	64.5	86
Potain	MR 608	32	32@22.6	9@60	n/s	30	204	n/s	77.3	86
Potain	MR 618	32	32@21.8	8.25@60	n/s	30	216	n/s	80.6	85
Potain	MR 295 H16	16	16 @ 23.4	2.8 @ 60	n/s	30	167	n/s	64.5	86
Raimondi Cranes	LRH174	10	10@21	2.25@50	600	26	127	6.5	90	26
Raimondi Cranes	LR273	18	18@23.5	2.48@60	980	30	136	9	84.4	70
Raimondi Cranes	LR372	20	20@26	3.63@60	880	30	256	2.7	84.4	70.3
Saez	SLH 70.4	4	4 @ 24	1.5@ 40	270	25	79	5	89.8	85
Saez	SLH 110	6	6 @ 15	2@ 45	350	20	124	7	89.8	85
Saez	SLH 205	10	10 @ 10	2.6@ 55	330	25	120	21	86.6	85
Saez	SL 320	18	18@23.4	3.2@ 60	350	30	159	18	84.4	85
Saez	SL 450R	24	24@24.8	4.5@ 65	780	35	248	26	84.4	85
Saez	SL 730	36	36@20	6.1@ 70	780	30	248	18	69.4	85
Stafford Soima	SGT 4015 LTL	4	4 @ 20	1,5 @ 40		25/40	75	0		
Stafford Soima	SGT 6220 LTL	16	16 @ 20	2 @ 62		32/62	135	0		
Terex	CTL 140-10	10	10@18.3	1,7@50	425	30/50	120	0	50.35	85
Terex	CTLH-192-12	12	12@23.15	2.1@55	560	25/55	252	0	84.4	86.3
Terex	CDK 100-16	16	16@9.56	3,2@30.3	n/s	16.5/30.3	59	0	n/s	n/s
Terex	CTL 180-16	16	16@17.7	2@55	425	30/55	145	0	84.4	85
Terex	CTL 260A-18	18	18@18.7	2.15@60	470	30/60	130	0	84.4	85
Terex	CTL 282-18	18	18@18	3,02@60	460	30/60	130	0	84.4	85
Terex	CTL 340-24	24	24@15.8	4@60	515	35/60	130	0	78.4	85
Terex	CTL 430-24	24	24@21.3	5,5@60	515	35/60	160	0	78.4	85
Terex	CTL 630B-32	32	32@23.2	6,7@65	495	35/65	202	0	76	85



**LUFFING JIB BY MANUFACTURER**

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
Terex	CTL 650F-45	45	45@ 15.5	7@ 65	910	35/65	277	0	76	85
Terex	CTL 1600-66	66	66@ 27.6	16@ 75	960	40/75	185	0	89	85
Wilbert	WT 405L e.tronic	32	32@ 19.9	4.7@ 61.5	900	12	200	n/s	160	87
Wilbert	WT 555L e.tronic	32	32@ 19.9	6.7@ 61.5	900	12	200	n/s	160	87
Wilbert	WT 905L e.tronic	48	48@ 29.5	10.0@ 78	900	15	200	n/s	133	87
Wilbert	WT 1305L e.tronic	64	64@ 24	14@ 78	900	15	200	n/s	133	87
Wilbert	WT 1905L e.tronic	80	80@ 24.5	19@ 78	900	15	200	n/s	128	87
Wilbert	WT 2705L e.tronic	128	128@ 19.5	19.5@ 78	900	15	200	n/s	122.9	87
WOLFFKRAN	WOLFF 166 B (US)	12	12@ 23	2.0@ 55	500	25/55	174	25	125.6	86
WOLFFKRAN	WOLFF 275 B (US)	24	24@ 17.6	2.6@ 60.0	700	30/60	222	16	111.1	83
WOLFFKRAN	WOLFF 355 B US	28	28@ 19.8	4.4@ 60.0	920	30/60	290	40	115.6	85
WOLFFKRAN	WOLFF 630 B	42	42@ 18.5	5.4@ 70.0	990	30/70	190	33	65.2	84
WOLFFKRAN	WOLFF 700 B (US)	50	50@ 17.1	5.9@ 70.0	990	30/70	190	33	100.1	84
WOLFFKRAN	WOLFF 1250 B (US)	60	60@ 28.2	12.1@ 80.0	990	40/80	190	11	95	84

**LUFFING JIB BY CAPACITY**

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
Jost Cranes	JTL 68.4s	4	4t @ 20m	2t @ 35m	n/s	25	124	15	100	87
Jost Cranes	JTL 68.4	4	4t @ 20m	1.5t @ 40m	n/s	25	124	15	100	87
Jost Cranes	JTL 78.4	4	4t @ 22m	1.6t @ 40m	n/s	25	200	33	100	87
Jost Cranes	JTL 98.4	4	4t @ 22m	1.5t @ 45m	n/s	30	200	33	100	87
Saez	SLH 70.4	4	4 @ 24	1.5@ 40	270	25	79	5	89.8	85
Stafford Soima	SGT 4015 LTL	4	4 @ 20	1.5 @ 40		25/40	75	0		
Jaso	J80PA	5	5.0@ 18.3	1.3@ 40	246	25.5	100	16	75.3	n/s
Jaso	J118HPA (Hydraulic luffing crane)	6	6.0@ 25.1	1.6@ 45	452	30	80	14	68	n/s
Jaso	J168HPA (Hydraulic luffing crane)	6	6.0@ 30.0	2.5@ 50	434	30	80	14	70.1	n/s
Jost Cranes	JTL 78.6	6	6t @ 14.6m	1.5t @ 40m	n/s	25	184	17	100	87
Jost Cranes	JTL 98.6	6	6t @ 15m	1.4t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 108.6	6	6t @ 20m	1.6t @ 45m	n/s	30	124	11	100	87
Jost Cranes	JTL 118.6	6	6t @ 20m	1.8t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 158.6	6	6t @ 27m	2.4t @ 50m	n/s	27.3	124	11	100	87
Saez	SLH 110	6	6 @ 15	2@ 45	350	20	124	7	89.8	85
COMANSA	LCL165 8t	8	8 @ 25	2.5 @ 50	820	30 to 50	310	0	56.6	87
ENG	ETH106 (Hydraulic special luffer)	8	8@ 20.1	1.3@ 41	292	14	154	5	85.5	87
ENG	EDL110 (Hybrid Luffer/Flat top)	8	8@ 23.4	1.71@ 44.5	292	12	154	5	84.6	87
Jaso	J80PA.RC	8	8.0@ 14.2	2.75@ 30.5	800	25.5	76	19	na	n/s
Jaso	J138PA	8	8.0@ 22.4	2.25@ 45.0	416	30	140	15	66.3	n/s
Jost Cranes	JTL 118.8	8	8t @ 15.9 m	1.7t @ 45m	n/s	30	188	21	100	87
Jost Cranes	JTL 168.8	8	8t @ 21.7m	2.0t @ 50m	n/s	27.3	188	21	100	87
Potain	MRH 125	8	8 @ 22	2@ 50	n/s	30	118	n/s	64.5	87
ENG	EDL150 (Hybrid Luffer/Flat top)	10	10@ 26.3	2.53@ 50.5	267	18	130	5	93.4	87
Jost Cranes	JTL 168.10	10	10t @ 17.3m	2.3t @ 50m	n/s	27.3	158	20	100	87
Potain	MRH 175	10	10 @ 22.5	1.5 @ 55	n/s	30	215.5	n/s	64.5	87
Raimondi Cranes	LRH174	10	10@ 21	2.25@ 50	600	26	127	6.5	90	26
Saez	SLH 205	10	10 @ 10	2.6@ 55	330	25	120	21	86.6	85
Terex	CTL 140-10	10	10@ 18.3	1.7@ 50	425	30/50	120	0	50.35	85
COMANSA	LCL 165 12t	12	12 @ 15	2.3 @ 50	640	30 to 50	330	0	56.6	87
COMANSA	LCL 190 12t	12	12 @ 20	1.5 @ 60	640	30 to 60	330	0	63.1	87
COMANSA	LCL 280 12t	12	12 @ 30	2.9 @ 60	640	30 to 60	330	0	53.2	87
COMANSA	LCL 310 12t	12	12 @ 30	3.5 @ 60	640	30 to 60	330	0	59	87
ENG	ETH186 (Hydraulic special luffer)	12	12@ 26	1.9@ 50	450	14	120	5	105.5	87
Jost Cranes	JTL 208.12	12	12t @ 19.7m	2.6t @ 55m	n/s	30	110	12	100	87
Jost Cranes	JTL 218.12	12	12t @ 19.4m	3.3t @ 50m	n/s	30	188	12	100	87
Jost Cranes	JTL 268.12	12	12t @ 23m	3.4t @ 55m	n/s	30	188	15	100	87

## LUFFING JIB BY CAPACITY

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
Jost Cranes	JTL 318.12	12	12t @ 25m	4.5t @ 55m	n/s	30	188	15	100	87
Jost Cranes	JL 226.12	12	12t @ 20.4m	2.2t @ 60m	n/s	30	188	15	100	87
Jost Cranes	JL 266.12	12	12t @ 20.4m	3.1t @ 60m	n/s	30	188	15	100	87
Terex	CTLH-192-12	12	12@23.15	2.1@55	560	25/55	252	0	84.4	86.3
WOLFFKRAN	WOLFF 166 B (US)	12	12@23	2.0@55	500	25/55	174	25	125.6	86
Potain	MR 229	14	14 @ 20.3	2.7 @ 55	n/s	30	207	n/s	60.9	86
COMANSA	LCH 300 16t	16	16 @ 21.2	3.4 @ 60	350	30 to 60	164	0	57.2	86
ENG	ETH276 (Hydraulic special luffer)	16	16@27.8	2.6@56	454	20	150	5	105.5	87
ENG	EDL230 (Hybrid Luffer/Flat top)	16	16@25.7	2.7@56.5	454	23	150	5	91	87
ENG	ETL243	16	16@24	2.59@56	454	29	150	5	94.5	85
Jost Cranes	JTL 268.16	16	16t @ 17.5m	3.3t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JTL 318.16	16	16t @ 20m	4.4t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JL 226.16	16	16t @ 15.4m	2.1t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 256.16	16	16t @ 18.5m	3.1t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 266.16	16	16t @ 18.3m	3.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 316.16	16	16t @ 22.1m	4.0t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 326.16	16	16t @ 22m	4.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 366.16	16	16t @ 25.3m	4.4t @ 60m	n/s	30	146	21	100	87
Liebherr	190 HC-L 8/16 Litronic	16	16@18.2	2.5@55.0	892	30 to 55	363	0	60.3	n/s
Liebherr	230 HC-L 8/16 Litronic	16	16@20.3	1.9@60.0	892	30 to 60	363	0	85.1	n/s
Potain	MR 295 H16	16	16 @ 23.4	2.8 @ 60	n/s	30	167	n/s	64.5	86
Stafford Soima	SGT 6220 LTL	16	16 @ 20	2 @ 62		32/62	135	0		
Terex	CDK 100-16	16	16@9.56	3.2@30.3	n/s	16.5/30.3	59	0	n/s	n/s
Terex	CTL 180-16	16	16@17.7	2@55	425	30/55	145	0	84.4	85
COMANSA	LCL 190 18t	18	18 @ 15	1.5 @ 60	640	30 to 60	224	0	63.1	87
COMANSA	LCL 280 18t	18	18 @ 25	2.9 @ 60	640	30 to 60	224	0	53.2	87
COMANSA	LCL 310 18t	18	18 @ 20	3.5 @ 60	640	30 to 60	224	0	59	87
Jaso	J198HPA (Hydraulic luffing crane)	18	18.0@13.7	1.8@55	588	30	227	12	70.1	n/s
Jaso	J208PA	18	18.0@18.5	1.5@60	568	30	366	12	72.1	n/s
Jaso	J265PA	18	18.0@21.3	2.2@60	630	30	366	19	72.1	n/s
Jaso	J280PA.2R	18	18.0@26.2	3.0@60	818	30	220	19	74.3	n/s
Liebherr	258 HC-L 10/18 Fibre	18	18@19.3	2.5@60	755	30 to 65	265	0	85.1	n/s
Raimondi Cranes	LR273	18	18@23.5	2.48@60	980	30	136	9	84.4	70
Saez	SL 320	18	18@23.4	3.2@60	350	30	159	18	84.4	85
Terex	CTL 260A-18	18	18@18.7	2.15@60	470	30/60	130	0	84.4	85
Terex	CTL 282-18	18	18@18	3.02@60	460	30/60	130	0	84.4	85
ENG	ETL303	20	20@26	3.19@60	545	29	216	6	90.8	85
Jost Cranes	JL 326.20	20	20t @ 17.7m	3.9t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 366.20	20	20t @ 20.3m	4.3t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 426.20	20	20t @ 24.2m	5.5t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 526.20	20	20t @ 29m	5.3t @ 65m	n/s	30	154	16	100	87
Potain	MR 295 H20	20	20@19.4	2.7@60	n/s	30	195	n/s	64.5	86
Raimondi Cranes	LR372	20	20@26	3.63@60	880	30	256	2.7	84.4	70.3
COMANSA	LCL 280 24t	24	24 @ 15	2.6 @ 60	725	30 to 60	204	0	53.2	87
COMANSA	LCL 310 24t	24	24 @ 15	3.2 @ 60	725	30 to 60	204	0	59	87
Jaso	J280PA.24.2R	24	24@20.9	2.7@60	828	30	218	14	72.6	n/s
Jost Cranes	JL 416.24	24	24t @ 20.3m	5.1t @ 60m	n/s	30	130	16	100	87
Jost Cranes	JL 426.24	24	24t @ 20.1m	5.3t @ 60m	n/s	30	172	15	100	87
Jost Cranes	JL 526.24	24	24t @ 24m	5.1t @ 65m	n/s	30	172	15	100	87
Jost Cranes	JL 626.24	24	24t @ 30m	7.0t @ 65m	n/s	30	172	15	100	87
Liebherr	280 HC-L 12/24 Litronic	24	24@20.2	3.2@60.0	1290	30 to 60	261	0	79.3	n/s
Liebherr	357 HC-L 12/24 Litronic	24	24@24.0	4.5@60.0	1290	30 to 60	330	0	70.6	n/s
Liebherr	542 HC-L 12/24 Litronic	24	24@30.8	4.8@65.0	1290	30 to 65	330	0	64.8	n/s
Potain	MR 418 A	24	24@20	5@60	n/s	30	254	n/s	86.4	86
Potain	MR 298	24	24 @ 16,8	2,4 @ 60	n/s	30	210	n/s	64.5	86
Saez	SL 450R	24	24@24.8	4.5@65	780	35	248	26	84.4	85
Terex	CTL 340-24	24	24@15.8	4@60	515	35/60	130	0	78.4	85
Terex	CTL 430-24	24	24@21.3	5.5@60	515	35/60	160	0	78.4	85



## LUFFING JIB BY CAPACITY

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
WOLFFKRAN	WOLFF 275 B (US)	24	24@ 17.6	2.6@ 60.0	700	30/60	222	16	111.1	83
Liebherr	280 HC-L 16/28 Litronic	28	28@ 17.0	3.0@ 60.0	1143	30 to 60	194	0	79.3	n/s
WOLFFKRAN	WOLFF 355 B US	28	28@ 19.8	4.4@ 60.0	920	30/60	290	40	115.6	85
Favelle Favco	M220D	32	32@ 10	3.0@ 53	n/s	27/55	210	n/s	56	85
Favelle Favco	M380F	32	32@ 15	3.0@ 63	n/s	36/64	250	n/s	56	85
Jaso	J438PA	32	32@ 20.8	3.0@ 65	874	30	181	18	74.3	n/s
Jaso	J638PA	32	32@ 26.9	6.5@ 65	650	30	188	18	70.7	n/s
Jost Cranes	JL 616.32	32	32t @ 23.2m	9.1t @ 60m	n/s	30	134	17	100	87
Jost Cranes	JL 626.32	32	32t @ 22.6m	6.8t @ 65m	n/s	30	188	21	100	87
Liebherr	357 HC-L 18/32 Litronic	32	32@ 18.2	4.1@ 60.0	1101	30 to 60	213	0	70.6	n/s
Potain	MR 608	32	32@ 22.6	9@ 60	n/s	30	204	n/s	77.3	86
Potain	MR 618	32	32@ 21.8	8.25@ 60	n/s	30	216	n/s	80.6	85
Terex	CTL 630B-32	32	32@ 23.2	6.7@ 65	495	35/65	202	0	76	85
Wilbert	WT 405L e.tronic	32	32@ 19.9	4.7@ 61.5	900	12	200	n/s	160	87
Wilbert	WT 555L e.tronic	32	32@ 19.9	6.7@ 61.5	900	12	200	n/s	160	87
COMANSA	LCL 560 36t	36	36 @ 20	5.1 @ 65	610	30 to 65	153	0	75.3	87
Jaso	J380PA	36	36@ 18.8	3.0@ 65	874	30	181	9	74.3	n/s
Jaso	J450PA	36	36@ 18.6	3.0@ 65	674	30	188	9	74.3	n/s
Jaso	J480PA	36	36@ 20.3	3.8@ 65	874	30	218	9	74.3	n/s
Liebherr	542 HC-L 18/36 Litronic	36	36@ 20.8	4.3@ 65.0	1101	30 to 65	213	0	64.8	n/s
Saez	SL 730	36	36@ 20	6.1@ 70	780	30	248	18	69.4	85
WOLFFKRAN	WOLFF 630 B	42	42@ 18.5	5.4@ 70.0	990	30/70	190	33	65.2	84
Terex	CTL 650F-45	45	45@ 15.5	7@ 65	910	35/65	277	0	76	85
Wilbert	WT 905L e.tronic	48	48@ 29.5	10.0@ 78	900	15	200	n/s	133	87
COMANSA	LCL 700 50t	50	50 @ 20	7.5 @ 65	1270	30 to 65	169	0	69.8	87
Favelle Favco	M440D	50	50@ 13	2.7@ 65	n/s	36/69	158	n/s	56	85
Favelle Favco	MK440E	50	50@ 13	2.7@ 65	n/s	32/69	160	n/s	56	85
WOLFFKRAN	WOLFF 700 B (US)	50	50@ 17.1	5.9@ 70.0	990	30/70	190	33	100.1	84
Jaso	J780PA.60	60	60@ 20.7	6.0@ 70	796	30	160	10	86.1	n/s
WOLFFKRAN	WOLFF 1250 B (US)	60	60@ 28.2	12.1@ 80.0	990	40/80	190	11	95	84
COMANSA	LCL 700 64t	64	64 @ 15	7.2 @ 65	1015	30 to 65	129	0	69.8	87
Favelle Favco	M760D	64	64@ 15	4.0@ 70	n/s	36/73	122	n/s	56	85
Favelle Favco	MK760E	64	64@ 12	4.0@ 70	n/s	36/73	150	n/s	56	85
Favelle Favco	M900F	64	64@ 15	7.5@ 72	n/s	36/73	111	n/s	56	85
Jaso	J780PA.64	64	64@ 18.9	6.0@ 70	912	30	188	11	86.1	n/s
Liebherr	710 HC-L 32/64 Litronic	64	64@ 16.4	7.2@ 65.0	1067	30 to 65	194	0	74.8	n/s
Liebherr	710 HC-L 32/64 Litronic Fly-Jib	64	64@ 15.7	7.0@ 63.1	1067	30 to 65	194	0	74.8	n/s
Wilbert	WT 1305L e.tronic	64	64@ 24	14@ 78	900	15	200	n/s	133	87
Terex	CTL 1600-66	66	66@ 27.6	16@ 75	960	40/75	185	0	89	85
Jaso	J780PA	75	75@ 16.8	5.7@ 70	1007	30	310	8	86.1	n/s
Wilbert	WT 1905L e.tronic	80	80@ 24.5	19@ 78	900	15	200	n/s	128	87
Wilbert	WT 2705L e.tronic	128	128@ 19.5	19.5@ 78	900	15	200	n/s	122.9	87
Favelle Favco	M1280D	150	150@ 17.4	12.1@ 81	n/s	36/83	110	n/s	72	85
Favelle Favco	M2480D	330	330@ 14.4	20.6@ 91	n/s	27/93	95	n/s	76	85

## SADDLE JIB BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
COMANSA	5LC3510 5t	5	5 @ 7.5	1.1 @ 35	125	20 / 35	74	2.5	75.9
COMANSA	5LC4010 5t	5	5 @ 10	1.1 @ 40	125	20 / 40	74	2.5	75.9
COMANSA	5LC4510 5t	5	5 @ 12.5	1.1 @ 45	125	20 / 45	74	2.5	70.9
COMANSA	5LC5010 5t	5	5 @ 15	1.1 @ 50	125	20 / 50	74	2.5	70.9
COMANSA	11LC90 5t	5	5 @ 16.6	1.3 @ 52.5	165	30 / 52.5	76	2.5	68.5
COMANSA	11LC132 5t	5	5 @ 27.5	1.3 @ 60	165	30 / 60	76	2.5	108.8
COMANSA	11LC90 6t	6	6 @ 15.2	1.3 @ 52.5	220	30 / 52.5	154	3	68.5

## SADDLE JIB BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
COMANSA	11LC132 6t	6	6 @ 23.5	1.3 @ 60	310	30 / 60	230	3	108.8
COMANSA	11LC150 6t	6	6 @ 19.4	1.7 @ 60	580	30 / 60	310	0	103.3
COMANSA	11LC150 8t	8	8 @ 19.4	1.8 @ 60	580	30 / 60	310	0	103.3
COMANSA	11LC160 8t	8	8 @ 20.1	1.5 @ 60	580	30 / 65	310	0	103.3
COMANSA	16LC185 8t	8	8 @ 24.9	2.1 @ 65	310	30 / 65	194	0	104.8
COMANSA	16LC185 10t	10	10 @ 20.2	1.9 @ 65	400	30 / 65	245	0	104.3
COMANSA	16LC220 10t	10	10 @ 23.3	2.3 @ 65	400	30 / 65	245	0	104.3
COMANSA	16LC260 10t	10	10 @ 30.1	2.3 @ 70	400	35 / 70	245	0	102.1
COMANSA	16LC185 12t	12	12 @ 17.2	1.9 @ 65	660	30 / 65	330	0	104.3
COMANSA	16LC220 12t	12	12 @ 19.8	2.3 @ 65	660	30 / 65	330	0	104.3
COMANSA	16LC260 12t	12	12 @ 25.6	2.3 @ 70	660	35 / 70	330	0	102.1
COMANSA	21LC335 12t	12	12 @ 29.7	2.9 @ 74	395	40 / 74	330	0	98.9
COMANSA	21LC335 20t	20	20 @ 17.9	2.9 @ 74	640	40 / 74	290	0	98.9
COMANSA	21LC450 20t	20	20 @ 24.7	3.3 @ 80	640	40 / 80	290	0	110.8
COMANSA	21LC600 20t	20	20 @ 33.5	4.95 @ 80	640	30 / 80	290	0	105.3
COMANSA	21LC650 20t	20	20 @ 37.8	4.95 @ 80	640	30 / 80	290	0	105.3
COMANSA	21LC660 20t	20	20 @ 36.2	5.8 @ 84	320	40 / 84	290	0	105.3
COMANSA	21LC550 20t	20	20 @ 27.9	4.4 @ 80	640	40 / 80	290	0	110.7
COMANSA	21LC660 20t	20	20 @ 36.2	5.8 @ 84	320	40 / 84	290	0	105.3
COMANSA	21LC600 25t	25	25 @ 26.3	4.5 @ 80	785	30 / 80	202	0	103.8
COMANSA	21LC650 25t	25	25 @ 29.4	4.5 @ 80	785	30 / 80	202	0	103.8
COMANSA	21LC660 25t	25	25 @ 30	5.2 @ 84	393	40 / 84	300	0	103.8
COMANSA	21LC750 25t	25	25 @ 38.9	8.0 @ 80	393	40 / 80	300	0	98.2
COMANSA	21LC450 25t	25	25 @ 19.1	2.8 @ 80	785	40 / 80	202	0	109.3
COMANSA	21LC550 25t	25	25 @ 21.8	3.9 @ 80	790	40 / 80	202	0	103.7
COMANSA	21LC1050 25t	25	25 @ 46.6	11.8 @ 80	393	30 / 80	300	0	98.2
COMANSA	30LC1100 32t	32	32 @ 38.2	12.1 @ 80	363	40 / 80	259	0	108.3
COMANSA	30LC1450 32t	32	32 @ 50.5	16 @ 80	363	40 / 80	259	0	102.8
COMANSA	21LC660 37.5t	37.5	37.5 @ 20.5	5.2 @ 84	393	40 / 84	300	0	103.8
COMANSA	21LC750 37.5t	37.5	37.5 @ 26.4	8.0 @ 80	393	40 / 80	300	0	98.2
COMANSA	21LC1050 37.5t	37.5	37.5 @ 32.7	11.8 @ 80	393	30 / 80	300	0	98.2
COMANSA	30LC1100 48t	48	48 @ 26.6	12.1 @ 80	363	40 / 80	259	0	108.3
COMANSA	30LC1450 48t	48	48 @ 35.4	16 @ 80	363	40 / 80	259	0	102.8
COMANSA	21LC660 50t	50	50 @ 16.1	4.6 @ 84	393	40 / 84	150	0	103.8
COMANSA	21LC750 50t	50	50 @ 20.6	7.3 @ 80	393	40 / 80	150	0	98.2
COMANSA	21LC1050 50t	50	50 @ 25.9	11.2 @ 80	393	30 / 80	150	0	98.2
COMANSA	21LC1400 50t	50	50 @ 34.6	10.7 @ 84.6	393	28.6 / 85	150	0	86.5
COMANSA	30LC1100 64t	64	64 @ 20.2	10.4 @ 80	363	40 / 80	130	0	108.3
COMANSA	30LC1450 64t	64	64 @ 26.8	14.8 @ 80	363	40 / 80	130	0	102.8
COMANSA	21LC1400 66t	66	66 @ 26.5	9.6 @ 85	355	28.6 / 85	116	0	86.5
COMANSA	30LC1450 90t	90	90 @ 18	26.4 @ 60	362.5	40 / 60	93	0	96.8
ENG	ETT244	12	12.0 @ 28.8	1.76 @ 75.0	450	33.0 / 75.0	120	5	82
ENG	ETT344	16	16.0 @ 26.7	3.41 @ 75.0	454	37.0 / 75.0	150	5	82
ENG	ETT531	25	25.0 @ 22.7	2.20 @ 86.0	500	36.0 / 86.0	196	6	90.7
ENG	ETT791	40	40.0 @ 21.4	4.07 @ 90.0	336	42.0 / 90.0	120	6	90.5
Jaso	J4510	2.5	2.5 @ 30	1 @ 45	193	20 / 45	82	5	87.8
Jaso	J5010	2.5	2.5 @ 35	1 @ 50	193	20 / 50	82	5	87.8
Jaso	J5510	2.5	2.5 @ 29.9	1 @ 55	193	30 @ 55	82	5	87.8
Jaso	J52NS	5	5.0 @ 18.9	1.1 @ 52.0	189	20.0 / 52.0	102	4	85.6
Jaso	J85	6	6.0 @ 19.32	1.2 @ 55	240	25.0 / 55.0	80	3	86.7
Jaso	J115.8	8	8.0 @ 17.2	1.3 @ 60	534	25 / 60	100	12.5	82.4
Jaso	J145.A	8	8.0 @ 20.26	2.0 @ 60	534	30 / 60	100	12.5	82.9
Jaso	J160.10	10	10.0 @ 17.0	1.7 @ 65	534	30 / 65	80	12.3	83.2
Jaso	J185	10	10.0 @ 17.6	2.0 @ 65	534	30 / 65	80	12.5	83.1
Jaso	J 190N.10.A	10	10.0 @ 24.6	2.75 @ 60	534	30 / 60	80	3.5	93.4
Jaso	J 200.10	10	10.0 @ 22.1	2.0 @ 67.5	534	30 / 67.5	90	12	82.7
Jaso	J 210.A	10	10.0 @ 26.0	3.0 @ 60	534	30 / 60	80	3.5	88.4
Jaso	J 200.12	12	12.0 @ 18.1	1.8 @ 67.5	534	30 / 67.5	225	19	82.7



**SADDLE JIB** BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Jaso	J 235.12	12	12.0@ 20.6	2.6@ 65	534	30/67.5	225	19	82.7
Jaso	J 260N.A	12	12.0@ 29.39	2.7@ 70	364	35/70	120	17.5	93.4
Jaso	J 300N.A	12	12.0@ 29.43	2.7@ 75	364	35/75	120	17.5	93.4
Jaso	J 300N.2R.A	12	12.0@ 7.7	2.5@ 75	284	35/75	185	17.5	93.4
Jaso	J 300N.16.A	16	16.0@ 21.0	2.5@ 75	528	35/75	125	17.5	93.4
Jaso	J360	18	18.0@ 24.6	4.0@ 60	328	30/60	145	13	90.7
Jaso	J360.24	24	24.0@ 19.0	5.0@ 55	314	30/55	115	10	90.7
Jaso	J365	24	24.0@ 19.0	4.4@ 60	410	30/55	115	10	81.6
Jaso	J390	24	24.0@ 19.3	3.8@ 75	310	30/75	115	10	81.6
Jaso	J560	24	24.0@ 27.2	2.5@ 85	828	30/85	331	14	83.8
Jaso	J 700	24	24.0@ 31.9	5.5@ 80	436	34.5/80	185	14	86.4
Jaso	J800.48	48	48.0@ 19.9	5.1@ 80	455	23/80	150	13	51.1
Jaso	J 1400	64	64.0@ 24.3	10.5@ 80	456	25/80	94	9	69.3
Liebherr	85 EC-B 5 FR.tronic	5	5.00@ 21.1	1.30@ 50.0	260	20 to 50	149	0	47.8
Liebherr	125 EC-B 6	6	6.00@ 22.5	1.6@ 58	250	20 to 58	123	0	61.5
Liebherr	150 EC-B 8 Litronic	8	8.00@ 22.5	1.40@ 62.5	328	24.4 to 62.5	174	0	76.5
Liebherr	172 EC-B 8 Litronic	8	8.00@ 24.3	1.80@ 62.5	328	24.4 to 62.5	174	0	75.5
Liebherr	205 EC-B 10	10	10.00@ 22.2	2.10@ 65.0	321	24.4 to 65.0	139	0	75.2
Liebherr	220 EC-B 10	10	10.00@ 23.5	2.25@ 68	321	24.4 to 68	139	0	75.2
Liebherr	240 EC-B 10 Fibre	10	10.00@ 23.9	2.5@ 68	277	24.4 to 68	143	0	75.2
Liebherr	220 EC-B 12	12	12.00@ 19.5	2.05@ 68	325	24.4 to 68	116	0	73.1
Liebherr	240 EC-B 12 Fibre	12	12.00@ 20.00	2.4@ 68	269	24.4 to 68	119	0	73.1
Liebherr	270 EC-B 12	12	12.00@ 26.3	2.1@ 73	325	24.4 to 73	267	0	94.6
Liebherr	300 EC-B 12 Fibre	12	12.00@ 27.1	2.55@ 73	269	24.4 to 73	272	0	94.6
Liebherr	340 EC-B 12	12	12.00@ 28	2.4@ 78	325	24.4 to 78	267	0	94.6
Liebherr	370 EC-B 12 Fibre	12	12.00@ 31	2.8@ 78	269	24.4 to 78	272	0	94.6
Liebherr	340 EC-B 16	16	16.00@ 21.0	2.1@ 78	276	24.4 to 78	192	0	94.6
Liebherr	370 EC-B 16 Fibre	16	16.00@ 22	2.5@ 78	194	24.4 to 78	199	0	94.6
Liebherr	470 EC-B 16	16	16.00@ 32	2.4@ 83	276	24.4 to 83	192	0	94.8
Liebherr	470 EC-B 20	20	20.00@ 25.5	2.2@ 83	368	24.4 to 83	149	0	94.8
Liebherr	520 EC-B 20 Fibre	20	20.00@ 26.6	2.9@ 83	378	24.4 to 83	158	0	94.8
Liebherr	550 EC-H 20 Litronic	20	20.00@ 37.60	4.00@ 81.5	520	41.5 to 81.5	191	0	86.9
Liebherr	550 EC-H 40 Litronic	40	40.00@ 18.30	4.00@ 81.5	520	40 to 81.5	191	0	85.5
Liebherr	630 EC-H 40 Litronic	40	40.00@ 18.90	5.80@ 81.4	520	36 to 81.4	191	0	80
Liebherr	1000 EC-H 40 Litronic	40	40.00@ 27.40	11.50@ 81.4	520	34.5 to 81.4	191	0	97.1
Liebherr	1188 EC-H 40 Fibre	40	40.00@ 28.9	9.10@ 91.4	378	34.5 to 91.4	158	0	97.1
Liebherr	1250 HC 40	40	40.00@ 31.00	12.50@ 81	520	38.8 to 81	191	0	79
Liebherr	630 EC-H 50 Litronic	50	50.00@ 15.20	5.20@ 81.4	334	36 to 81.4	153	0	80
Liebherr	1000 EC-H 50 Litronic	50	50.00@ 22.1	11.00@ 81.4	334	34.5 to 81.4	154	0	94.2
Liebherr	1250 HC 50	50	50.00@ 24.30	12.00@ 81.00	441	38.8 to 81	154	0	79
Liebherr	2000 HC 60	60	60.00@ 34.90	22.00@ 81.4	441	48 to 81.4	105	0	91.8
Potain	MDT 109	6	6@ 17.8	1.35@ 55	n/s	55	96	n/s	
Potain	MDT 139	6	6@ 24.8	1.9@ 55	n/s	55	96	n/s	
Potain	MDT159	6	6@ 25	1.75 @ 60	n/s	60	96	n/s	
Potain	MDT 189	8	8@ 24.5	1.8@ 60	n/s	60	121	n/s	
Potain	MDT 219 J8	8	8@ 29.2	1.95@ 65	n/s	65	121	n/s	
Potain	MDT 219 J10	10	10@ 21.7	1.9@ 65	n/s	65	101	n/s	
Potain	MDT 249 J10	10	10@ 24.6	2.75@ 65	n/s	65	215	n/s	
Potain	MDT 259 J10	10	10@ 24.8	3.1@ 65	n/s	65	215	n/s	
Potain	MDT 269 J10	10	10@ 24.8	3.3 @ 65	n/s	65	215	n/s	
Potain	MDT 249 J12	12	12 @ 20.4	2.6 @ 65	n/s	65	220	n/s	
Potain	MDT 259 J12	12	12 @ 21.6	2.9 @ 65	n/s	65	220	n/s	
Potain	MDT 269 J12	12	12 @ 21.6	3.1 @ 65	n/s	65	220	n/s	
Potain	MDT 289	12	12 @ 24.9	2.75 @ 70	n/s	70	220	n/s	
Potain	MDT 319	12	12 @ 24.9	3.2 @ 70	n/s	70	220	n/s	
Potain	MDT 349 L12	12	12 @ 30	3.2 @ 75	n/s	75	220	n/s	
Potain	MDT 389 L12	12	12 @ 29.9	3.4 @ 75	n/s	75	220	n/s	
Potain	MDT 349 L16	16	16 @ 22.5	3 @ 75	n/s	75	204	n/s	

## SADDLE JIB BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Potain	MDT 389 L16	16	16 @ 25.8	3.3 @ 75	n/s	75	204	n/s	
Potain	MDT 489 M20	20	20 @ 28.5	3.5 @ 80	n/s	80	195	n/s	
Potain	MDT 569 M20	20	20 @ 30	4.2t @ 80	n/s	80	195	n/s	
Potain	MD 559	20	20 @ 30	4.7 @ 80	n/s	80	162	n/s	
Potain	MDT 489 M25	25	25 @ 23	3.5 @ 80	n/s	80	195	n/s	
Potain	MDT 569 M25	25	25 @ 25.2	4.2t @ 80	n/s	80	195	n/s	
Potain	MDT 809 M25	25	25 @ 31	9.0 @ 80	n/s	80	195	n/s	
Potain	MD 569	25	25 @ 24.7	5.8 @ 80	n/s	80	195	n/s	
Potain	MD 689 M25	25	25 @ 28.8	6.7 @ 80	n/s	80	195	n/s	
Potain	MDT 569 M32	32	32 @ 20.1	3.6 @ 80	n/s	80	151	n/s	
Potain	MDT 809 M32	32	32 @ 28.1	8.3 @ 80	n/s	80	215	n/s	
Potain	MDT 809 M40	40	40 @ 22.9	8.3 @ 80	n/s	80	162	n/s	
Potain	MD 689 M40	40	40 @ 18	6.0 @ 80	n/s	80	162	n/s	
Potain	MDLT 1109	40	40 @ 27.7	11.1 @ 80	n/s	80	133	n/s	
Potain	MD 1600	64	64 @ 28.3	17.4 @ 80	n/s	80	162	n/s	
Potain	MD 2200	64	64 @ 35	23.5 @ 80	n/s	80	162	n/s	
Potain	MD 3200	80	80 @ 37	38.7 @ 70	n/s	85	64	n/s	
Potain	MCT 68	3	3@20	1.1@46	n/s	46	82	n/s	
Potain	MCT 88	5	5 @ 16.3	1.1 @ 52	n/s	52	82	n/s	
Raimondi Cranes S.p.A.	MRT48	4	4@17.4	1.375@42	120	24/42	91	0	110
Raimondi Cranes S.p.A.	MRT84	5	5@18.5	1.375@51	120	24/51	91	0	104
Raimondi Cranes S.p.A.	T97	6	6@21.73	1.71@50.5	225	18.0/50.5	110.03	0	104
Raimondi Cranes S.p.A.	T147	6	6@32.54	1.65@62.5	225	20.0/62.5	110.03	0	100
Raimondi Cranes S.p.A.	T147	8	8@24.81	1.4@62.5	310	20.0/62.5	105.96	0	100
Raimondi Cranes S.p.A.	T187	8	8@28.52	1.65@67.5	310	25.0/67.5	105.96	0	101
Raimondi Cranes S.p.A.	MRT111	8	8@18.5	1.375@60	225	30/60	100	0	104
Raimondi Cranes S.p.A.	MRT159	8	8@26.5	1.815@65	420	26.5/65	136	0	108
Raimondi Cranes S.p.A.	T187	10	10@23.44	1.61@67.5	310	25.0/67.5	101.7	0	101
Raimondi Cranes S.p.A.	T207	10	10@28.13	2.34@67.5	310	25.0/67.5	101.7	0	100
Raimondi Cranes S.p.A.	MRT189	10	10@25.4	2.20@65	330	30.5/65	136	0	108
Raimondi Cranes S.p.A.	MRT234	12	12@25.2	2.25@70	351	34/70	120	0	103
Raimondi Cranes S.p.A.	T357	16	16@26.57	2.53@77.5	392	30.0/77.5	142	0	90
Raimondi Cranes S.p.A.	MRT294	16	16@22.7	2.75@76	350	30/76	136	0	98
Saez	TLS 55-13 6T	6	6@17.7	1.485@55	190	20/55	100	8	107.7
Saez	TLS 55-17 6T	6	6@21.2	1.92@55	190	20/55	100	8	107.7
Saez	TLS 60 8T	8	8@14.6	1.4@60	320	25/60	104		114
Saez	TLS 65 8T	8	8@16.4	1.6@65	320	25/65	104		114
Saez	TLS 65B 10T	10	10@15.8	2@65	320	25/65	104		114
Saez	TLS 70 12T	12	12@17	2.2@70	300	30/70	118		110
Saez	TLS 75 16T	16	16@17.2	2.9@75	300	30/75	119		100
Saez	TLS 80 24T	24	24@15.2	3.2@80	330	30/80	186		93.4
Saez	TLS 80 32T	32	32@12.3	3.5@80	300	30/80	138		93.4
Stafford Soima	SGT 5015TL	5	5 @ 18	1.65 @ 50	186	24/50	78	0	90
Stafford Soima	SGT 5512TL	5	5 @ 18	1.38 @ 55	186	24/55	78	0	90
Stafford Soima	SGT 5030TL	8	8 @ 23	3.3 @ 50	209	28/50	101	0	81
Stafford Soima	SGT 6020TL	8	8 @ 18	2.2 @ 60	209	28/60	94	0	81
Stafford Soima	SGT 6515TL	8	8 @ 18	1.65 @ 65	209	28/65	94	0	81
Stafford Soima	SGT 7018TL	10	10 @ 21	2 @ 70	209	26/70	118	0	72
Stafford Soima	SGT 7022TL	12	12 @ 18	2.4 @ 70	209	26/70	95	0	72
Stafford Soima	SGT 7030TL	16	16 @ 20	3.3 @ 70	204	28/70	106	0	66
Stafford Soima	SGT 8030TL	20	20 @ 18	3 @ 80	204	38/80	85	0	90
Stafford Soima	SGT 8041TL	32	32 @ 10	4.1 @ 80	204	43/77,5	155	0	90
Terex	FC 6.24H	1.5	1.5@12.6	0.6@24	43.1	12.6/24	36	0	26
Terex	CTT 91-5	5	5@20.94	1.4@50	155	25/50	69	0	48.70
Terex	CTT 132-6	6	6@27.66	1.5@60	155	30/60	80	0	55.3
Terex	CTT 172-8	8	8@16.82	1.71@65	255	25/65	132	0	70.8
Terex	CTT 202-8	8	8@25.00	2.3@65	255	25/65	132	0	76.7
Terex	CTT 202-10	10	10@23.89	2.3@65	265	25/65	110	0	76.7



**SADDLE JIB** BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Terex	CTT 222-10	10	10@ 25.00	2.58@ 65	340	25/65	110	0	79.8
Terex	CTT 292-12	12	12@ 25.00	3.06@ 70	340	25/70	245	0	78.4
Terex	CTT 332-16	16	16@ 24.00	3.0@ 75	360	30/75	145	0	98.4
Terex	CTT 472-20	20	20@ 27.74	4.48@ 80	495	30 / 80	190	0	92.4
Terex	CTT 561A-20	20	20@ 31.72	2.2@ 84	250	39/84	118	0	91.2
Terex	SK 415-20	20	20@ 26.1	2.3@ 80	260	35/80	110	0	68.6
Terex	CTT 561A-32	32	32@ 20.11	1.5@ 80	239	39/84	170	0	91.2
Terex	SK 575-32	32	32@ 20.4	3.9@ 80	216.5	40/80	126	0	75.8
Terex	CTT 721B-40	40	40@ 21.9	4.65@ 80	239	39/84	146	0	79.4
Wilbert	WT 150 e.tronic	6	6@ 25	2@ 60	160	25/60	120	n/s	95.6
Wilbert	WT 180 e.tronic	8	8@ 30	1.8@ 65	160	25/65	170	n/s	100
Wilbert	WT 200 e.tronic	8	8@ 25	1.7@ 65	160	25/65	130	n/s	92.5
Wilbert	WT 260 e.tronic	12	12@ 25	2.7@ 70	190	25/70	137	n/s	100
Wilbert	WT 320 e.tronic	12	12@ 25	3.3@ 75	610	25/75	224	n/s	85.8
Wilbert	WT 300 e.tronic	16	16@ 25	4@ 70	610	25/70	224	n/s	98.8
Wilbert	WT 360 e.tronic	16	16@ 27.5	2.8@ 77.5	610	25/77.5	170	n/s	100
Wilbert	WT 420 e.tronic	16	16@ 30	2.8@ 85	610	30/85	240	n/s	79.5
Wilbert	WT 650 e.tronic	32	32@ 24	6.3@ 82.5	500	30/82.5	240	n/s	83.7
Wilbert	WT 720 e.tronic	32	32@ 25	5.8@ 85	500	25/85	240	n/s	100
WOLFFKRAN	WOLFF 4518 City	6	6.0@ 17.3	1.3@ 50	63.3	20 - 50	55		60.3
WOLFFKRAN	WOLFF 5014 City	6	6.0@ 17.8	1.4@ 50	104.3	20 - 50	108		101.3
WOLFFKRAN	WOLFF 5020.6 Clear	6.2	6.2@ 20	1.5@ 55	115.2	20 - 55	52		113.7
WOLFFKRAN	WOLFF 6020.6 Clear	6.2	6.2@ 27.6	2.0@ 60	110.7	25 - 60	108		109.2
WOLFFKRAN	WOLFF 6023.6 Clear	6.2	6.2@ 35.5	2.3@ 60	110.7	25 - 60	52		109.2
WOLFFKRAN	WOLFF 5020.8 Clear	8.5	8.5@ 17	1.5@ 55	115.2	20 - 50	115		113.7
WOLFFKRAN	WOLFF 6020.8 Clear	8.5	8.5@ 20.2	1.8@ 60	110.7	25 - 60	115		109.2
WOLFFKRAN	WOLFF 6023.8 Clear	8.5	8.5@ 26.6	2.3@ 60	110.7	25 - 60	115		109.2
WOLFFKRAN	WOLFF 6031.8 Clear	8.5	8.5@ 30.5	2.3@ 65	106.2	30 - 60	115		104.7
WOLFFKRAN	WOLFF 7032.8 Clear	8.5	8.5@ 37.9	3.2@ 70	106.2	25 - 70	185		104.7
WOLFFKRAN	WOLFF 7534.8 Clear	8.5	8.5@ 43.6	3.4@ 75	106.2	30 - 75	185		104.7
WOLFFKRAN	WOLFF 8033.8 Cross	8.5	8.5@ 55	3.3@ 80	92.2	30 - 80	185		91.2
WOLFFKRAN	WOLFF 6031.12 Clear (US)	12	12.0@ 21.5	2.0@ 65	106.2	30 - 60	115		104.7
WOLFFKRAN	WOLFF 7032.12 Clear	12	12.0@ 27.3	2.9@ 70	106.2	25 - 70	185		104.7
WOLFFKRAN	WOLFF 7534.16 Clear (US)	16.5	16.5@ 24.1	2.9@ 75	106.2	30 - 75	185		104.7
WOLFFKRAN	WOLFF 8033.16 Cross	16.5	8.5@ 29.5	2.9@ 80	92.2	30 - 80	185		91.2
WOLFFKRAN	WOLFF 8033.20 Cross (US)	20	20.0@ 24.5	2.6@ 80	92.2	30 - 80	132		91.2
WOLFFKRAN	WOLFF 6071 Cross	20	20.0@ 31.8	7.1@ 60	91.7	30 - 60	125		91.2
WOLFFKRAN	WOLFF 8060.25 Cross	25	25.0@ 30	6.0@ 80	82.7	30 - 80	159		82.2
WOLFFKRAN	WOLFF 8076 Compact	40	40.0@ 24.9	7.6@ 80	97.3	30 - 80	95		95.9
WOLFFKRAN	WOLFF 8060.50 Cross	50	50.0@ 15.2	4.2@ 80	82.7	30 - 80	159		82.2
Zoomlion	T8030-25	25	25@ 20	3@ 80	350	30/80	150	6	91.2
Zoomlion	T600-32	32	32@ 15	2.5@ 85	350	30/85	150	6	91.2

**SADDLE JIB** BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Terex	FC 6.24H	1.5	1.5@ 12.6	0.6@ 24	43.1	12.6/24	36	0	26
Jaso	J4510	2.5	2.5@ 30	1@ 45	193	20/45	82	5	87.8
Jaso	J5010	2.5	2.5@ 35	1@ 50	193	20/50	82	5	87.8
Jaso	J5510	2.5	2.5@ 29.9	1@ 55	193	30@ 55	82	5	87.8
Potain	MCT 68	3	3@ 20	1.1@ 46	n/s	46	82	n/s	
Raimondi Cranes S.p.A.	MRT48	4	4@ 17.4	1.375@ 42	120	24/42	91	0	110
COMANSA	5LC3510 5t	5	5 @ 7.5	1.1 @ 35	125	20 / 35	74	2.5	75.9
COMANSA	5LC4010 5t	5	5 @ 10	1.1 @ 40	125	20 / 40	74	2.5	75.9
COMANSA	5LC4510 5t	5	5 @ 12.5	1.1 @ 45	125	20 / 45	74	2.5	70.9

## SADDLE JIB BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
COMANSA	5LC5010 5t	5	5 @ 15	1.1 @ 50	125	20 / 50	74	2.5	70.9
COMANSA	11LC90 5t	5	5 @ 16.6	1.3 @ 52.5	165	30 / 52.5	76	2.5	68.5
COMANSA	11LC132 5t	5	5 @ 27.5	1.3 @ 60	165	30 / 60	76	2.5	108.8
Jaso	J52NS	5	5.0 @ 18.9	1.1 @ 52.0	189	20.0/52.0	102	4	85.6
Liebherr	85 EC-B 5 FR.tronic	5	5.00 @ 21.1	1.30 @ 50.0	260	20 to 50	149	0	47.8
Potain	MCT 88	5	5 @ 16.3	1.1 @ 52	n/s	52	82	n/s	
Raimondi Cranes S.p.A.	MRT84	5	5 @ 18.5	1.375 @ 51	120	24/51	91	0	104
Stafford Soima	SGT 5015TL	5	5 @ 18	1.65 @ 50	186	24/50	78	0	90
Stafford Soima	SGT 5512TL	5	5 @ 18	1.38 @ 55	186	24/55	78	0	90
Terex	CTT 91-5	5	5 @ 20.94	1.4 @ 50	155	25/50	69	0	48.70
COMANSA	11LC90 6t	6	6 @ 15.2	1.3 @ 52.5	220	30 / 52.5	154	3	68.5
COMANSA	11LC132 6t	6	6 @ 23.5	1.3 @ 60	310	30 / 60	230	3	108.8
COMANSA	11LC150 6t	6	6 @ 19.4	1.7 @ 60	580	30 / 60	310	0	103.3
Jaso	J85	6	6.0 @ 19.32	1.2 @ 55	240	25.0/55.0	80	3	86.7
Liebherr	125 EC-B 6	6	6.00 @ 22.5	1.6 @ 58	250	20 to 58	123	0	61.5
Potain	MDT 109	6	6 @ 17.8	1.35 @ 55	n/s	55	96	n/s	
Potain	MDT 139	6	6 @ 24.8	1.9 @ 55	n/s	55	96	n/s	
Potain	MDT159	6	6 @ 25	1.75 @ 60	n/s	60	96	n/s	
Raimondi Cranes S.p.A.	T97	6	6 @ 21.73	1.71 @ 50.5	225	18.0/50.5	110.03	0	104
Raimondi Cranes S.p.A.	T147	6	6 @ 32.54	1.65 @ 62.5	225	20.0/62.5	110.03	0	100
Saez	TLS 55-13 6T	6	6 @ 17.7	1.485 @ 55	190	20/55	100	8	107.7
Saez	TLS 55-17 6T	6	6 @ 21.2	1.92 @ 55	190	20/55	100	8	107.7
Terex	CTT 132-6	6	6 @ 27.66	1.5 @ 60	155	30/60	80	0	55.3
Wilbert	WT 150 e.tronic	6	6 @ 25	2 @ 60	160	25/60	120	n/s	95.6
WOLFFKRAN	WOLFF 4518 City	6	6.0 @ 17.3	1.3 @ 50	63.3	20 - 50	55		60.3
WOLFFKRAN	WOLFF 5014 City	6	6.0 @ 17.8	1.4 @ 50	104.3	20 - 50	108		101.3
WOLFFKRAN	WOLFF 5020.6 Clear	6.2	6.2 @ 20	1.5 @ 55	115.2	20 - 55	52		113.7
WOLFFKRAN	WOLFF 6020.6 Clear	6.2	6.2 @ 27.6	2.0 @ 60	110.7	25 - 60	108		109.2
WOLFFKRAN	WOLFF 6023.6 Clear	6.2	6.2 @ 35.5	2.3 @ 60	110.7	25 - 60	52		109.2
COMANSA	11LC150 8t	8	8 @ 19.4	1.8 @ 60	580	30 / 60	310	0	103.3
COMANSA	11LC160 8t	8	8 @ 20.1	1.5 @ 60	580	30 / 65	310	0	103.3
COMANSA	16LC185 8t	8	8 @ 24.9	2.1 @ 65	310	30 / 65	194	0	104.8
Jaso	J115.8	8	8.0 @ 17.2	1.3 @ 60	534	25/60	100	12.5	82.4
Jaso	J145.A	8	8.0 @ 20.26	2.0 @ 60	534	30/60	100	12.5	82.9
Liebherr	150 EC-B 8 Litronic	8	8.00 @ 22.5	1.40 @ 62.5	328	24.4 to 62.5	174	0	76.5
Liebherr	172 EC-B 8 Litronic	8	8.00 @ 24.3	1.80 @ 62.5	328	24.4 to 62.5	174	0	75.5
Potain	MDT 189	8	8 @ 24.5	1.8 @ 60	n/s	60	121	n/s	
Potain	MDT 219 J8	8	8 @ 29.2	1.95 @ 65	n/s	65	121	n/s	
Raimondi Cranes S.p.A.	T147	8	8 @ 24.81	1.49 @ 62.5	310	20.0/62.5	105.96	0	100
Raimondi Cranes S.p.A.	T187	8	8 @ 28.52	1.65 @ 67.5	310	25.0/67.5	105.96	0	101
Raimondi Cranes S.p.A.	MRT111	8	8 @ 18.5	1.375 @ 60	225	30/60	100	0	104
Raimondi Cranes S.p.A.	MRT159	8	8 @ 26.5	1.815 @ 65	420	26.5/65	136	0	108
Saez	TLS 60 8T	8	8 @ 14.6	1.4 @ 60	320	25/60	104		114
Saez	TLS 65 8T	8	8 @ 16.4	1.6 @ 65	320	25/65	104		114
Stafford Soima	SGT 5030TL	8	8 @ 23	3.3 @ 50	209	28/50	101	0	81
Stafford Soima	SGT 6020TL	8	8 @ 18	2.2 @ 60	209	28/60	94	0	81
Stafford Soima	SGT 6515TL	8	8 @ 18	1.65 @ 65	209	28/65	94	0	81
Terex	CTT 172-8	8	8 @ 16.82	1.71 @ 65	255	25/65	132	0	70.8
Terex	CTT 202-8	8	8 @ 25.00	2.3 @ 65	255	25/65	132	0	76.7
Wilbert	WT 180 e.tronic	8	8 @ 30	1.8 @ 65	160	25/65	170	n/s	100
Wilbert	WT 200 e.tronic	8	8 @ 25	1.7 @ 65	160	25/65	130	n/s	92.5
WOLFFKRAN	WOLFF 5020.8 Clear	8.5	8.5 @ 17	1.5 @ 55	115.2	20 - 50	115		113.7
WOLFFKRAN	WOLFF 6020.8 Clear	8.5	8.5 @ 20.2	1.8 @ 60	110.7	25 - 60	115		109.2
WOLFFKRAN	WOLFF 6023.8 Clear	8.5	8.5 @ 26.6	2.3 @ 60	110.7	25 - 60	115		109.2
WOLFFKRAN	WOLFF 6031.8 Clear	8.5	8.5 @ 30.5	2.3 @ 65	106.2	30 - 60	115		104.7
WOLFFKRAN	WOLFF 7032.8 Clear	8.5	8.5 @ 37.9	3.2 @ 70	106.2	25 - 70	185		104.7
WOLFFKRAN	WOLFF 7534.8 Clear	8.5	8.5 @ 43.6	3.4 @ 75	106.2	30 - 75	185		104.7
WOLFFKRAN	WOLFF 8033.8 Cross	8.5	8.5 @ 55	3.3 @ 80	92.2	30 - 80	185		91.2



SADDLE JIB BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
COMANSA	16LC185 10t	10	10 @ 20.2	1.9 @ 65	400	30 / 65	245	0	104.3
COMANSA	16LC220 10t	10	10 @ 23.3	2.3 @ 65	400	30 / 65	245	0	104.3
COMANSA	16LC260 10t	10	10 @ 30.1	2.3 @ 70	400	35 / 70	245	0	102.1
Jaso	J160.10	10	10.0@ 17.0	1.7@ 65	534	30/65	80	12.3	83.2
Jaso	J185	10	10.0@ 17.6	2.0@ 65	534	30/65	80	12.5	83.1
Jaso	J 190N.10.A	10	10.0@ 24.6	2.75@ 60	534	30/60	80	3.5	93.4
Jaso	J 200.10	10	10.0@ 22.1	2.0@ 67.5	534	30/67.5	90	12	82.7
Jaso	J 210.A	10	10.0@ 26.0	3.0@ 60	534	30/60	80	3.5	88.4
Liebherr	205 EC-B 10	10	10.00@ 22.2	2.10@ 65.0	321	24.4 to 65.0	139	0	75.2
Liebherr	220 EC-B 10	10	10.00@ 23.5	2.25@ 68	321	24.4 to 68	139	0	75.2
Liebherr	240 EC-B 10 Fibre	10	10.00@ 23.9	2.5@ 68	277	24.4 to 68	143	0	75.2
Potain	MDT 219 J10	10	10@ 21.7	1.9@ 65	n/s	65	101	n/s	
Potain	MDT 249 J10	10	10@ 24.6	2.75@ 65	n/s	65	215	n/s	
Potain	MDT 259 J10	10	10@ 24.8	3.1@ 65	n/s	65	215	n/s	
Potain	MDT 269 J10	10	10@ 24.8	3.3 @ 65	n/s	65	215	n/s	
Raimondi Cranes S.p.A.	T187	10	10@ 23.44	1.61@ 67.5	310	25.0/67.5	101.7	0	101
Raimondi Cranes S.p.A.	T207	10	10@ 28.13	2.34@ 67.5	310	25.0/67.5	101.7	0	100
Raimondi Cranes S.p.A.	MRT189	10	10@ 25.4	2.20@ 65	330	30.5/65	136	0	108
Saez	TLS 658 10T	10	10@ 15.8	2@ 65	320	25/65	104		114
Stafford Soima	SGT 7018TL	10	10 @ 21	2 @ 70	209	26/70	118	0	72
Terex	CTT 202-10	10	10@ 23.89	2.3@ 65	265	25/65	110	0	76.7
Terex	CTT 222-10	10	10@ 25.00	2.58@ 65	340	25/65	110	0	79.8
COMANSA	16LC185 12t	12	12 @ 17.2	1.9 @ 65	660	30 / 65	330	0	104.3
COMANSA	16LC220 12t	12	12 @ 19.8	2.3 @ 65	660	30 / 65	330	0	104.3
COMANSA	16LC260 12t	12	12 @ 25.6	2.3 @ 70	660	35 / 70	330	0	102.1
COMANSA	21LC335 12t	12	12 @ 29.7	2.9 @ 74	395	40 / 74	330	0	98.9
ENG	ETT244	12	12.0@ 28.8	1.76@ 75.0	450	33.0/75.0	120	5	82
Jaso	J 200.12	12	12.0@ 18.1	1.8@ 67.5	534	30/67.5	225	19	82.7
Jaso	J 235.12	12	12.0@ 20.6	2.6@ 65	534	30/67.5	225	19	82.7
Jaso	J 260N.A	12	12.0@ 29.39	2.7@ 70	364	35/70	120	17.5	93.4
Jaso	J 300N.A	12	12.0@ 29.43	2.7@ 75	364	35/75	120	17.5	93.4
Jaso	J 300N.2R.A	12	12.0@ 7.7	2.5@ 75	284	35/75	185	17.5	93.4
Liebherr	220 EC-B 12	12	12.00@ 19.5	2.05@ 68	325	24.4 to 68	116	0	73.1
Liebherr	240 EC-B 12 Fibre	12	12.00@ 20.00	2.4@ 68	269	24.4 to 68	119	0	73.1
Liebherr	270 EC-B 12	12	12.00@ 26.3	2.1@ 73	325	24.4 to 73	267	0	94.6
Liebherr	300 EC-B 12 Fibre	12	12.00@ 27.1	2.55@ 73	269	24.4 to 73	272	0	94.6
Liebherr	340 EC-B 12	12	12.00@ 28	2.4@ 78	325	24.4 to 78	267	0	94.6
Liebherr	370 EC-B 12 Fibre	12	12.00@ 31	2.8@ 78	269	24.4 to 78	272	0	94.6
Potain	MDT 249 J12	12	12 @ 20.4	2.6 @ 65	n/s	65	220	n/s	
Potain	MDT 259 J12	12	12 @ 21.6	2.9 @ 65	n/s	65	220	n/s	
Potain	MDT 269 J12	12	12 @ 21.6	3.1 @ 65	n/s	65	220	n/s	
Potain	MDT 289	12	12 @ 24.9	2.75 @ 70	n/s	70	220	n/s	
Potain	MDT 319	12	12 @ 24.9	3.2 @ 70	n/s	70	220	n/s	
Potain	MDT 349 L12	12	12 @ 30	3.2 @ 75	n/s	75	220	n/s	
Potain	MDT 389 L12	12	12 @ 29.9	3.4 @ 75	n/s	75	220	n/s	
Raimondi Cranes S.p.A.	MRT234	12	12@ 25.2	2.25@ 70	351	34/70	120	0	103
Saez	TLS 70 12T	12	12@ 17	2.2@ 70	300	30/70	118		110
Stafford Soima	SGT 7022TL	12	12 @ 18	2.4 @ 70	209	26/70	95	0	72
Terex	CTT 292-12	12	12@ 25.00	3.06@ 70	340	25/70	245	0	78.4
Wilbert	WT 260 e.tronic	12	12@ 25	2.7@ 70	190	25/70	137	n/s	100
Wilbert	WT 320 e.tronic	12	12@ 25	3.3@ 75	610	25/75	224	n/s	85.8
WOLFFKRAN	WOLFF 6031.12 Clear [US]	12	12.0@ 21.5	2.0@ 65	106.2	30 - 60	115		104.7
WOLFFKRAN	WOLFF 7032.12 Clear	12	12.0@ 27.3	2.9@ 70	106.2	25 - 70	185		104.7
ENG	ETT344	16	16.0@ 26.7	3.41@ 75.0	454	37.0/75.0	150	5	82
Jaso	J 300N.16.A	16	16.0@ 21.0	2.5@ 75	528	35/75	125	17.5	93.4
Liebherr	340 EC-B 16	16	16.00@ 21.0	2.1@ 78	276	24.4 to 78	192	0	94.6
Liebherr	370 EC-B 16 Fibre	16	16.00@ 22	2.5@ 78	194	24.4 to 78	199	0	94.6
Liebherr	470 EC-B 16	16	16.00@ 32	2.4@ 83	276	24.4 to 83	192	0	94.8

## SADDLE JIB BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Potain	MDT 349 L16	16	16 @ 22.5	3 @ 75	n/s	75	204	n/s	
Potain	MDT 389 L16	16	16 @ 25.8	3.3 @ 75	n/s	75	204	n/s	
Raimondi Cranes S.p.A.	T357	16	16@26.57	2.53@77.5	392	30.0/77.5	142	0	90
Raimondi Cranes S.p.A.	MRT294	16	16@22.7	2.75@76	350	30/76	136	0	98
Saez	TLS 75 16T	16	16@17.2	2.9@75	300	30/75	119		100
Stafford Soima	SGT 7030TL	16	16 @ 20	3.3 @ 70	204	28/70	106	0	66
Terex	CTT 332-16	16	16@24.00	3.0@75	360	30/75	145	0	98.4
Wilbert	WT 300 e.tronic	16	16@25	4@70	610	25/70	224	n/s	98.8
Wilbert	WT 360 e.tronic	16	16@27.5	2.8@77.5	610	25/77.5	170	n/s	100
Wilbert	WT 420 e.tronic	16	16@30	2.8@85	610	30/85	240	n/s	79.5
WOLFFKRAN	WOLFF 7534.16 Clear (US)	16.5	16.5@24.1	2.9@75	106.2	30 - 75	185		104.7
WOLFFKRAN	WOLFF 8033.16 Cross	16.5	8.5@29.5	2.9@80	92.2	30 - 80	185		91.2
Jaso	J360	18	18.0@24.6	4.0@60	328	30/60	145	13	90.7
COMANSA	21LC335 20t	20	20 @ 17.9	2.9 @ 74	640	40 / 74	290	0	98.9
COMANSA	21LC450 20t	20	20 @ 24.7	3.3 @ 80	640	40 / 80	290	0	110.8
COMANSA	21LC600 20t	20	20 @ 33.5	4.95 @ 80	640	30 / 80	290	0	105.3
COMANSA	21LC650 20t	20	20 @ 37.8	4.95 @ 80	640	30 / 80	290	0	105.3
COMANSA	21LC660 20t	20	20 @ 36.2	5.8 @ 84	320	40 / 84	290	0	105.3
COMANSA	21LC550 20t	20	20 @ 27.9	4.4 @ 80	640	40 / 80	290	0	110.7
COMANSA	21LC660 20t	20	20 @ 36.2	5.8 @ 84	320	40 / 84	290	0	105.3
Liebherr	470 EC-B 20	20	20.00@25.5	2.2@83	368	24.4 to 83	149	0	94.8
Liebherr	520 EC-B 20 Fibre	20	20.00@26.6	2.9@83	378	24.4 to 83	158	0	94.8
Liebherr	550 EC-H 20 Litronic	20	20.00@37.60	4.00@81.5	520	41.5 to 81.5	191	0	86.9
Potain	MDT 489 M20	20	20 @ 28.5	3.5 @ 80	n/s	80	195	n/s	
Potain	MDT 569 M20	20	20 @ 30	4.2t @ 80	n/s	80	195	n/s	
Potain	MD 559	20	20 @ 30	4.7 @ 80	n/s	80	162	n/s	
Stafford Soima	SGT 8030TL	20	20 @ 18	3 @ 80	204	38/80	85	0	90
Terex	CTT 472-20	20	20@27.74	4.48@80	495	30 / 80	190	0	92.4
Terex	CTT 561A-20	20	20@31.72	2.2@84	250	39/84	118	0	91.2
Terex	SK 415-20	20	20@26.1	2.3@80	260	35/80	110	0	68.6
WOLFFKRAN	WOLFF 8033.20 Cross (US)	20	20.0@24.5	2.6@80	92.2	30 - 80	132		91.2
WOLFFKRAN	WOLFF 6071 Cross	20	20.0@31.8	7.1@60	91.7	30 - 60	125		91.2
Jaso	J360.24	24	24.0@19.0	5.0@55	314	30/55	115	10	90.7
Jaso	J365	24	24.0@19.0	4.4@60	410	30/55	115	10	81.6
Jaso	J390	24	24.0@19.3	3.8@75	310	30/75	115	10	81.6
Jaso	J560	24	24.0@27.2	2.5@85	828	30/85	331	14	83.8
Jaso	J 700	24	24.0@31.9	5.5@80	436	34.5/80	185	14	86.4
Saez	TLS 80 24T	24	24@15.2	3.2@80	330	30/80	186		93.4
COMANSA	21LC600 25t	25	25 @ 26.3	4.5 @ 80	785	30 / 80	202	0	103.8
COMANSA	21LC650 25t	25	25 @ 29.4	4.5 @ 80	785	30 / 80	202	0	103.8
COMANSA	21LC660 25t	25	25 @ 30	5.2 @ 84	393	40 / 84	300	0	103.8
COMANSA	21LC750 25t	25	25 @ 38.9	8.0 @ 80	393	40 / 80	300	0	98.2
COMANSA	21LC450 25t	25	25 @ 19.1	2.8 @ 80	785	40 / 80	202	0	109.3
COMANSA	21LC550 25t	25	25 @ 21.8	3.9 @ 80	790	40 / 80	202	0	103.7
COMANSA	21LC1050 25t	25	25 @ 46.6	11.8 @ 80	393	30 / 80	300	0	98.2
ENG	ETT531	25	25.0@22.7	2.20@86.0	500	36.0/86.0	196	6	90.7
Potain	MDT 489 M25	25	25 @ 23	3.5 @ 80	n/s	80	195	n/s	
Potain	MDT 569 M25	25	25 @ 25.2	4.2t @ 80	n/s	80	195	n/s	
Potain	MDT 809 M25	25	25 @ 31	9.0 @ 80	n/s	80	195	n/s	
Potain	MD 569	25	25 @ 24.7	5.8 @ 80	n/s	80	195	n/s	
Potain	MD 689 M25	25	25 @ 28.8	6.7 @ 80	n/s	80	195	n/s	
WOLFFKRAN	WOLFF 8060.25 Cross	25	25.0@30	6.0@80	82.7	30 - 80	159		82.2
Zoomlion	T8030-25	25	25@20	3@80	350	30/80	150	6	91.2
COMANSA	30LC1100 32t	32	32 @ 38.2	12.1 @ 80	363	40 / 80	259	0	108.3
COMANSA	30LC1450 32t	32	32 @ 50.5	16 @ 80	363	40 / 80	259	0	102.8
Potain	MDT 569 M32	32	32 @ 20.1	3.6 @ 80	n/s	80	151	n/s	
Potain	MDT 809 M32	32	32 @ 28.1	8.3 @ 80	n/s	80	215	n/s	
Saez	TLS 80 32T	32	32@12.3	3.5@80	300	30/80	138		93.4



**SADDLE JIB** BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Stafford Soima	SGT 8041TL	32	32 @ 10	4.1 @ 80	204	43/77.5	155	0	90
Terex	CTT 561A-32	32	32@20.11	1.5@80	239	39/84	170	0	91.2
Terex	SK 575-32	32	32@20.4	3.9@80	216.5	40/80	126	0	75.8
Wilbert	WT 650 e.tronic	32	32@24	6.3@82.5	500	30/82.5	240	n/s	83.7
Wilbert	WT 720 e.tronic	32	32@25	5.8@85	500	25/85	240	n/s	100
Zoomlion	T600-32	32	32@15	2.5@85	350	30/85	150	6	91.2
COMANSA	21LC660 37.5t	37.5	37.5 @ 20.5	5.2 @ 84	393	40 / 84	300	0	103.8
COMANSA	21LC750 37.5t	37.5	37.5 @ 26.4	8.0 @ 80	393	40 / 80	300	0	98.2
COMANSA	21LC1050 37.5t	37.5	37.5 @ 32.7	11.8 @ 80	393	30 / 80	300	0	98.2
ENG	ETT791	40	40.0@21.4	4.07@90.0	336	42.0/90.0	120	6	90.5
Liebherr	550 EC-H 40 Litronic	40	40.00@18.30	4.00@81.5	520	40 to 81.5	191	0	85.5
Liebherr	630 EC-H 40 Litronic	40	40.00@18.90	5.80@81.4	520	36 to 81.4	191	0	80
Liebherr	1000 EC-H 40 Litronic	40	40.00@27.40	11.50@81.4	520	34.5 to 81.4	191	0	97.1
Liebherr	1188 EC-H 40 Fibre	40	40.00@28.9	9.10@91.4	378	34.5 to 91.4	158	0	97.1
Liebherr	1250 HC 40	40	40.00@31.00	12.50@81	520	38.8 to 81	191	0	79
Potain	MDT 809 M40	40	40 @ 22.9	8.3 @ 80	n/s	80	162	n/s	
Potain	MD 689 M40	40	40 @ 18	6.0 @ 80	n/s	80	162	n/s	
Potain	MDLT 1109	40	40 @ 27.7	11.1 @ 80	n/s	80	133	n/s	
Terex	CTT 721B-40	40	40@21.9	4.65@80	239	39/84	146	0	79.4
WOLFFKRAN	WOLFF 8076 Compact	40	40.0@24.9	7.6@80	97.3	30 - 80	95		95.9
COMANSA	30LC1100 48t	48	48 @ 26.6	12.1 @ 80	363	40 / 80	259	0	108.3
COMANSA	30LC1450 48t	48	48 @ 35.4	16 @ 80	363	40 / 80	259	0	102.8
Jaso	J800.48	48	48.0@19.9	5.1@80	455	23/80	150	13	51.1
COMANSA	21LC660 50t	50	50 @ 16.1	4.6 @ 84	393	40 / 84	150	0	103.8
COMANSA	21LC750 50t	50	50 @ 20.6	7.3 @ 80	393	40 / 80	150	0	98.2
COMANSA	21LC1050 50t	50	50 @ 25.9	11.2 @ 80	393	30 / 80	150	0	98.2
COMANSA	21LC1400 50t	50	50 @ 34.6	10.7 @ 84.6	393	28.6 / 85	150	0	86.5
Liebherr	630 EC-H 50 Litronic	50	50.00@15.20	5.20@81.4	334	36 to 81.4	153	0	80
Liebherr	1000 EC-H 50 Litronic	50	50.00@22.1	11.00@81.4	334	34.5 to 81.4	154	0	94.2
Liebherr	1250 HC 50	50	50.00@24.30	12.00@81.00	441	38.8 to 81	154	0	79
WOLFFKRAN	WOLFF 8060.50 Cross	50	50.0@15.2	4.2@80	82.7	30 - 80	159		82.2
Liebherr	2000 HC 60	60	60.00@34.90	22.00@81.4	441	48 to 81.4	105	0	91.8
COMANSA	30LC1100 64t	64	64 @ 20.2	10.4 @ 80	363	40 / 80	130	0	108.3
COMANSA	30LC1450 64t	64	64 @ 26.8	14.8 @ 80	363	40 / 80	130	0	102.8
Jaso	J 1400	64	64.0@24.3	10.5@80	456	25/80	94	9	69.3
Potain	MD 1600	64	64 @ 28.3	17.4 @ 80	n/s	80	162	n/s	
Potain	MD 2200	64	64 @ 35	23.5 @ 80	n/s	80	162	n/s	
COMANSA	21LC1400 66t	66	66 @ 26.5	9.6 @ 85	355	28.6 / 85	116	0	86.5
Potain	MD 3200	80	80 @ 37	38.7 @ 70	n/s	85	64	n/s	
COMANSA	30LC1450 90t	90	90 @ 18	26.4 @ 60	362.5	40 / 60	93	0	96.8

**SELF-ERECTING** BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Max Hook Height (m)	Jib Length Min/Max (m/m)	Max Hoist Speed (m/min)
Liebherr	13 HM.1	1.5	1.50@10.4	0.50@22.0	16	20 to 22	25
Liebherr	22 HM	2	2.00@13.5	0.70@27.0	19	25 to 27	40
Liebherr	L1-24	2.5	2.5@11.4	0.8@27	19.2	22 to 27	51
Liebherr	L1-32	4	4@10.6	1.05@30	21.3	25 to 30	57
Liebherr	34 K [2/4]	4	4.00@11.04	1.00@33.0	27	25.5 to 33	51.4
Liebherr	42 K.1 [2/4]	4	4.00@14.4	1.10@36.0	28	25.5 to 36	53.3
Liebherr	42 KR.1 [2/4]	4	4.00@14.4	1.10@36.0	28	25.5 to 36	53.3
Liebherr	53 K [2/4]	4.2	4.20@15.3	1.00@40.0	30.4	28 to 40	89
Liebherr	65 K.1	4.5	4.50@17.60	1.35@43.0	34.6	28 to 43	74.1
Liebherr	81 K.1	6	6.00@16.3	1.35@48.0	40.4	31 to 48	76.1
Liebherr	125 K	8	8.00@16.3	1.3@55	41.5	35 to 55	66.3
Liebherr	MK 73-3.1	6	6.00@13.5	2.0@38.5	26.5	38.5	89

## SELF-ERECTING BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Max Hook Height (m)	Jib Length Min/Max (m/m)	Max Hoist Speed (m/min)
Liebherr	MK 88-4.1	8	8.00@ 13	2.20@ 45.0	30.2	45	82
Liebherr	MK 140	8	8.00@ 14.4	1.00@ 65.0	39.9	58.3 to 65	109
Potain	Hup 32-27	4	4 @ 12.1	1 @ 32	27	32	65
Potain	Hup 40-30	4	4 @ 15.7	1 @ 40	30	40	65
Potain	Evj 30-23	4	4@ 10.2	1@ 30	23	30	65
Potain	Igo 13	1.8	1.8@ 9.3	0.7@ 20	17	20	39
Potain	Igo 15	1.8	1.8@ 10.9	0.7@ 22	19	22	39
Potain	Igo 18	1.8	1.8@ 12	0.7@ 24	19	24	39
Potain	Igo 21	1.8	1.8@ 13.4	0.7@ 26	19	26	39
Potain	Igo 22	1.8	1.8@ 16	0.85@ 28	20	28	39
Potain	Igo M 14	1.8	1.8@ 9.1	0.6@ 22	19	22	39
Potain	Igo MA 21	1.8	1.8@ 13.4	0.7@ 26	19	26	39
Potain	Hup M 28-22	2.2	2.2 @ 14.1	0.85@ 28	22	28	49
Potain	Igo 30	2.2	2.2@ 14.6	0.9@ 30	21	30	48
Potain	Igo 32	4	4@ 10.8	1.1@ 30	22	30	66.5
Potain	Igo 50	4	4@ 15.7	1.1@ 40	23	40	66.5
Potain	Igo T 70 A	4	4@ 19.2	1.45@ 40	35	40	68
Potain	Igo T 85 A	6	6@ 15.7	1.4@ 45	38	45	69
Potain	Igo T 99	6	6@ 17.7m	1.2@ 48	38.5	48	54
Potain	Igo T 130	8	8@ 18.6	1.4@ 50	37	50	63
Stafford Soima	SGH 24x40	4	4 @ 48.9	1 @ 40		13.1/39.9	53
Terex	CBR 21H	1.6	1.6@ 10	0.6	21.6	11.2-21	36
Terex	CBR 24 Plus	2	2@ 12.3	0.75	23.3	12.3-24	36
Terex	CBR 28 Plus	2.5	2.5@ 13.5	0.9	26.5	14.4-27.8	40
Terex	CBR 32 Plus	4	4@ 3.75	1	31.1	13.7-32	46
Terex	CBR 40H	4	4@ 14.5	1	32.2	27.2-40	46
Terex	CSE 30	4.4	4.4@ 10.62	1.3	27.1	14.1-30	52
Terex	CSE 32	4.4	4.4@ 10.27	1.15	27.5	14.1-32	56
Terex	CSE 36	4.4	4.4@ 13.17	1.42	31.5	27.5-36.1	46
Terex	CSE 40	4.4	4.4@ 12.41	1.15	32.2	27.5-40	56
Vicario	22-AR	1.8	1.8@ 8.64	0.6@ 21.9	17.2	10.7-21.9	37
Vicario	24-AR	1.8	1.8@ 8.8	.5@ 24	17.2	11.8-24	37
Vicario	26-A SR	2.2	2.2@ 10.9	.75@ 26	22.4	10.9-26	42
Vicario	350-SR	2.2	2.2@ 12.13	.85@ 27	24	13.13-27	42
Vicario	30-A	4	4@ 9.6	1@ 30	24	14-30	56
Vicario	34-A	4	4@ 10.9	1@ 34	25	14-34	56
Vicario	370	4	4@ 12.4	1@ 38	25.5	28-38	56
Vicario	340	4	4@ 13.45	1@ 42	26	28-42	56
Vicario	45-A	4	4@ 14.45	1@ 45	27	30-45	56

## SELF-ERECTING BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Max Hook Height (m)	Jib Length Min/Max (m/m)	Max Hoist Speed (m/min)
Liebherr	13 HM.1	1.5	1.50@ 10.4	0.50@ 22.0	16	20 to 22	25
Terex	CBR 21H	1.6	1.6@ 10	0.6	21.6	11.2-21	36
Potain	Igo 13	1.8	1.8@ 9.3	0.7@ 20	17	20	39
Potain	Igo 15	1.8	1.8@ 10.9	0.7@ 22	19	22	39
Potain	Igo 18	1.8	1.8@ 12	0.7@ 24	19	24	39
Potain	Igo 21	1.8	1.8@ 13.4	0.7@ 26	19	26	39
Potain	Igo 22	1.8	1.8@ 16	0.85@ 28	20	28	39
Potain	Igo M 14	1.8	1.8@ 9.1	0.6@ 22	19	22	39
Potain	Igo MA 21	1.8	1.8@ 13.4	0.7@ 26	19	26	39
Vicario	22-AR	1.8	1.8@ 8.64	0.6@ 21.9	17.2	10.7-21.9	37
Vicario	24-AR	1.8	1.8@ 8.8	.5@ 24	17.2	11.8-24	37
Liebherr	22 HM	2	2.00@ 13.5	0.70@ 27.0	19	25 to 27	40
Terex	CBR 24 Plus	2	2@ 12.3	0.75	23.3	12.3-24	36
Potain	Hup M 28-22	2.2	2.2 @ 14.1	0.85@ 28	22	28	49



## SELF-ERECTING BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Max Hook Height (m)	Jib Length Min/Max (m/m)	Max Hoist Speed (m/min)
Potain	Igo 30	2.2	2.2@ 14.6	0.9@ 30	21	30	48
Vicario	26-A SR	2.2	2.2@ 10.9	.75@ 26	22.4	10.9-26	42
Vicario	350-SR	2.2	2.2@ 12.13	.85@ 27	24	13.13-27	42
Liebherr	L1-24	2.5	2.5@ 11.4	0.8@ 27	19.2	22 to 27	51
Terex	CBR 28 Plus	2.5	2.5@ 13.5	0.9	26.5	14.4-27.8	40
Liebherr	L1-32	4	4@ 10.6	1.05@ 30	21.3	25 to 30	57
Liebherr	34 K (2/4)	4	4.00@ 11.04	1.00@ 33.0	27	25.5 to 33	51.4
Liebherr	42 K.1 (2/4)	4	4.00@ 14.4	1.10@ 36.0	28	25.5 to 36	53.3
Liebherr	42 KR.1 (2/4)	4	4.00@ 14.4	1.10@ 36.0	28	25.5 to 36	53.3
Potain	Hup 32-27	4	4 @ 12.1	1 @ 32	27	32	65
Potain	Hup 40-30	4	4 @ 15.7	1 @ 40	30	40	65
Potain	Evry 30-23	4	4@ 10.2	1@ 30	23	30	65
Potain	Igo 32	4	4@ 10.8	1.1@ 30	22	30	66.5
Potain	Igo 50	4	4@ 15.7	1.1@ 40	23	40	66.5
Potain	Igo T 70 A	4	4@ 19.2	1.45@ 40	35	40	68
Stafford Soima	SGH 24x40	4	4 @ 48,9	1 @ 40		13.1/39.9	53
Terex	CBR 32 Plus	4	4@ 3.75	1	31.1	13.7-32	46
Terex	CBR 40H	4	4@ 14.5	1	32.2	27.2-40	46
Vicario	30-A	4	4@ 9.6	1@ 30	24	14-30	56
Vicario	34-A	4	4@ 10.9	1@ 34	25	14-34	56
Vicario	370	4	4@ 12.4	1@ 38	25.5	28-38	56
Vicario	340	4	4@ 13.45	1@ 42	26	28-42	56
Vicario	45-A	4	4@ 14.45	1@ 45	27	30-45	56
Liebherr	53 K (2/4)	4.2	4.20@ 15.3	1.00@ 40.0	30.4	28 to 40	89
Terex	CSE 30	4.4	4.4@ 10.62	1.3	27.1	14.1-30	52
Terex	CSE 32	4.4	4.4@ 10.27	1.15	27.5	14.1-32	56
Terex	CSE 36	4.4	4.4@ 13.17	1.42	31.5	27.5-36.1	46
Terex	CSE 40	4.4	4.4@ 12.41	1.15	32.2	27.5-40	56
Liebherr	65 K.1	4.5	4.50@ 17.60	1.35@ 43.0	34.6	28 to 43	74.1
Liebherr	81 K.1	6	6.00@ 16.3	1.35@ 48.0	40.4	31 to 48	76.1
Liebherr	MK 73-3.1	6	6.00@ 13.5	2.0@ 38.5	26.5	38.5	89
Potain	Igo T 85 A	6	6@ 15.7	1.4@ 45	38	45	69
Potain	Igo T 99	6	6@ 17,7m	1.2@ 48	38.5	48	54
Liebherr	125 K	8	8.00@ 16.3	1.3@ 55	41.5	35 to 55	66.3
Liebherr	MK 88-4.1	8	8.00@ 13	2.20@ 45.0	30.2	45	82
Liebherr	MK 140	8	8.00@ 14.4	1.00@ 65.0	39.9	58.3 to 65	109
Potain	Igo T 130	8	8@ 18.6	1.4@ 50	37	50	63

## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Effer	65	5835	7 ft 11 in	46 ft 1 in	34 ft 1 in	78 in	1740	2.9
Effer	80	6250	8 ft 4 in	46 ft 4 in	35 ft 4 in	82 in	2015	3.1
Effer	100	7735	7 ft 11 in	45 ft 7 in	34 ft 7 in	85 in	2380	3.8
Effer	145	9180	9 ft 8 in	66 ft 1 in	55 ft 1 in	89 in	3679	4.6
Effer	165	10955	9 ft 2 in	65 ft 4 in	54 ft 4 in	90 in	4010	5.5
Effer	225	15990	9 ft 8 in	60 ft 0 in	55 ft 7 in	92 in	6250	8.1
Effer	265	17855	9 ft 8 in	67 ft 7 in	55 ft 7 in	92 in	6250	8.9
Effer	315	22640	8 ft 10 in	81 ft 9 in	69 ft 9 in	93 in	7195	11.3
Effer	375	24165	9 ft 5 in	82 ft 1 in	70 ft 1 in	95 in	8320	12.1
Effer	395	25570	9 ft 5 in	82 ft 1 in	70 ft 1 in	95 in	8320	12.8
Effer	455/505	31305	9 ft 10 in	82 ft 9 in	70 ft 9 in	96 in	11195	15.6
Effer	655/685	41300	9 ft 6 in	87 ft 5 in	75 ft 5 in	97 in	12420	20.6
Effer	1355	51145	13 ft 7 in	84 ft 3 in	72 ft 3 in	101 in	23445	25.5
Effer	855	52685	9 ft 6 in	82 ft 6 in	75 ft 3 in	98 in	15895	26.3
Effer	955	54780	9 ft 6 in	82 ft 6 in	75 ft 3 in	98 in	15895	27.3
Effer	1405	52025	13 ft 7 in	84 ft 3 in	72 ft 3 in	101 in	23545	29.4

## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Effer	1750	63380	14 ft 2 in	76 ft 8 in	64 ft 8 in	104 in	26565	37.2
Effer	2655	60185	15 ft 0 in	104 ft 11 in	90 ft 0 in	108 in	37367	37.6
Effer	1855	65035	14 ft 2 in	84 ft 2 in	72 ft 2 in	104 in	26715	38.2
Effer	2055	71205	13 ft 2 in	84 ft 2 in	71 ft 5 in	106 in	28395	38.9
Effer	2255	66135	14 ft 5 in	98 ft 5 in	141 ft 10 in	111 in	39903	39.7
Effer	2755	108025	9 ft 11 in	45 ft 11 in	36 ft 10 in	83 in	56980	54.1
Fassi	F22A.0.22	2193	407 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	881	1
Fassi	F28A.0.23	2193	440 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	1025	1
Fassi	F38A.0.23	2193	507 lbs @ 28 ft 8 in	33 ft 10 in	13 ft 1 in	5 ft 2 in	1267	1
Fassi	M10A 12	2194	661 lbs @ 11 ft 7 in	15 ft 7 in	5 ft 2 in	3 ft 11 in	396	1
Fassi	M30A 13	4404	794 lbs @ 22 ft 4 in	27 ft 7 in	10 ft 5 in	5 ft 3 in	573	2
Fassi	F50A.0.24	5004	462 lbs @ 35 ft 5 in	41 ft 5 in	17 ft 6 in	5 ft 9 in	1653	2.5
Fassi	F65B.1.24	6832	640 lbs @ 41 ft 11 in	46 ft 2 in	24ft 6in	6 ft 3 in	2050	3
Fassi	F600SE.44	6600	1,390 lbs @ 100 ft	1,121 ft	100'	95"	17195	3.3
Fassi	F85B.0.24	8377	903 lbs @ 43 ft 31 in	50 ft 4 in	30 ft 7 in	6 ft 5 in	2579	4
Fassi	F425SE.04	9000	3,550 @ 61'	72 ft 11 in	61'	95"	10000	4.5
Fassi	F95B.0.24	9744	220 lbs @ 59 ft 6 in	66 ft 8 in	30 ft 6 in	7 ft 2 in	3593	5
Fassi	F135A.2.26	10251	110 lbs @ 81 ft 4 in	89 ft	40 ft 4 in	7 ft 9 in	5423	5
Fassi	F155A.0.26	11023	220 lbs @ 81 ft 4 in	89 ft	45 ft 4 in	7 ft 9 in	6172	5
Fassi	F175A.2.26	11794	242 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7495	6
Fassi	F115A 24	11904	396 lbs @ 59 ft 2 in	66 ft 2 in	30 ft 6 in	7 ft 2 in	4309	6
Fassi	F135A.0.25	12632	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4783	6
Fassi	F195A.2.26	12896	286 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7495	6.5
Fassi	F215A.2.26	13668	330 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7716	7
Fassi	F155A.0.25	13911	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4795	7
Fassi	F175A.0.25	17636	220 lbs @ 80 ft 6 in	88 ft	37 ft 8 in	7 ft 10 in	6547	8.5
Fassi	F245A.2.28	17636	473 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9500	8.5
Fassi	F275A.2.28	17636	606 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9500	8.5
Fassi	F195A.0.25	19102	330 lbs @ 80 ft 8 in	88 ft	43 ft 8 in	7 ft 10 in	6889	9.5
Fassi	F245A.0.26	19620	551 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8500	9.5
Fassi	F275A.0.26	29762	617 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8500	9.5
Fassi	F215A.0.25	20657	385 lbs @ 80 ft 6 in	88 ft	43 ft 8 in	7 ft 10 in	6889	10
Fassi	F295A.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12500	10.5
Fassi	F295RA.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12500	10.5
Fassi	F335A.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12500	10.5
Fassi	F335RA.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12500	10.5
Fassi	F385A.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17500	13
Fassi	F385RA.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17500	13
Fassi	F455A.2.28	29762	485 lbs @ 101 ft 10 in	106ft	72 ft 11 in	8 ft 6 in	13558	15
Fassi	F455RA.2.28	29762	485 lbs @ 101 ft 10 in	106ft	72 ft 11 in	8 ft 6 in	13558	15
Fassi	F515RA.2.28	35273	661 lbs @ 100 ft 5 in	106ft	75 ft 9 in	8 ft 6 in	13558	16.5
Fassi	F660RA.2.28	35273	485 lbs @ 116 ft 5 in	131 ft 3 in	75 ft 9 in	8 ft 6 in	15000	17.5
Fassi	F800RA.2.28	48501	727 lbs @ 109 ft 10 in	124 ft	75 ft 9 in	8 ft 6 in	17600	24
Fassi	F950RA.2.28	48501	551 lbs @ 121 ft 10 in	136 ft	80 ft	8 ft 6 in	19000	24
Fassi	F1100RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 2 in	8 ft 6 in	23000	27.5
Fassi	F1300RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 4 in	8 ft 6 in	33500	27.5
Fassi	F1950RAL.2.28	58973	727 lbs @ 151 ft 5 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45000	29
Fassi	F2150RAL.2.28	63272	728 lbs @ 152 ft 8 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45000	32
Fassi	F1500RA.2.28	66138	727 lbs @ 120 ft 4 in	134 ft 2 in	72 ft 2 in	8 ft 6 in	35000	33
IMT	2.5/18	1740	715 lb (325 kg) @ 22'8"	28' 1" (8.6 m)	23' (7 m)	5 ft	895 lb (405 kg)	0.87
IMT	3.2/23	2195	960 lb (435 kg) @ 23'4"	29' 3" (8.9 m)	23 ft 7 in (7.2 m)	5 ft 3 in	920 lb (418 kg)	1.1
IMT	610 MCS/RC	6526	948 lb (430 kg) @ 35'5"	43' 11" (13.4 m)	35' 4" (10.8 m)	6 ft 2 in	1,389 lb (630 kg)	3
IMT	710 RCS	6526	992 lb @ 35'5"	43' 11" (13.4 m)	35' 4" (10.8 m)	6 ft 2 in	1,389 lb (630 kg)	3.4
IMT	810 MCS/RC	8245	1268 lb (575 kg) @ 36'1"	42' 5" (12.9 m)	36' 1" (11 m)	6 ft 2 in	1466 lb (665 kg)	3.8
IMT	910 RCS	8509	1323 lb (600 kg) @ 36'1"	42' 5" (12.9 m)	36' 1" (11 m)	6 ft 2 in	1466 lb (665 kg)	4.2
IMT	1030 MCS	9281	1102 lb (500 kg) @ 45'6"	53' 4" (16.3 m)	45' 6" (13.9 m)	7 ft	2172 lb (985 kg)	4.3
IMT	10/72 SL	9722	1190 lb (540 kg) @ 45'7"	53' 4" (16.3 m)	45' 11" (14 m)	7 ft	2172 lb (985kg)	4.6
IMT	1230 MCS	10163	1213 lb (550 kg) @ 48'10"	56' 5" (17.2 m)	49' 2" (15 m)	7 ft	2381 lb (1080 kg)	4.6
IMT	10/72 DL	10384	1124 lb (510 kg) @ 45'7"	53' 4" (16.3 m)	45' 11" (14 m)	7 ft	2005 lb (1000 kg)	4.6



## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
IMT	12/86 SL	10626	1301 lb (590 kg) @ 48'10"	56' 5" (17.2 m)	49' 2" (15 m)	7 ft	2381 lb (1080 kg)	5
IMT	12/86 DL	10670	1279 lb (580 kg) @ 48'10"	56' 5" (17.2 m)	49' 2" (15 m)	7 ft	2458 lb (1115 kg)	5.1
IMT	1430 MCS	11023	926 lb (420 kg) @ 56'5"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	2889 lb (1310 kg)	5.1
IMT	1610 RCS	11684	1169 lb ( 530 kg) @ 56'5"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	2889 lb (1310 kg)	5.5
IMT	1620 RCS	12280	1146 lb ( 520 kg) @ 56'4"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	2,999 lb (1360 kg)	5.9
IMT	1910 RCS	13448	1543 lb ( 700 kg) @ 56'5"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	3021 lb (1370 kg)	5.9
IMT	1920 RCS	15631	1543 lb ( 700 kg) @ 48'11"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	3131 lb (1420 kg)	6.4
IMT	2310 RCS	16204	1080 lb ( 490 kg) @ 70'6"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	3869 lb (1800 kg)	6.7
IMT	2320 RCS	20260	1080 lb ( 490 kg) @ 70'5"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	4145 lb (1880 kg)	6.9
IMT	2810 RCS	20018	1521 lb ( 690 kg) @ 70'6"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	4178 lb (1895 kg)	7.4
IMT	2820 RCS	20260	1521 lb ( 690 kg) @ 70'6"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	4365 lb (1980 kg)	7.4
IMT	32/222	15058	1764 lb ( 800 kg) @ 69'6"	77' 10" (23.7 m)	69' 11" (21.3 m)	7 ft 9 in	5710 lb (2590 kg)	9.5
IMT	40/275	19025	2225 lb ( 1010 kg) @ 69'10"	79' 1" (24.1 m)	69' 11" (21.3 m)	7 ft 10 in	6945 lb (3150 kg)	9.7
IMT	50/345	22840	3085 lb ( 1400 kg) @ 70'3"	78' 11" (24.1 m)	70' 3" (21.4 m)	7 ft 10 in	7959 lb (3610 kg)	11.4
IMT	7020	30490	4519 lb ( 2050 kg) @ 66'11"	76' 1" (23.2 m)	67' 7" (20.6 m)	8 ft 1 in	9844 lb (4465 kg)	13.9
IMT	9520	40433	6305 lb ( 2860 kg) @ 65'11"	72' 2" (22 m)	66' 7" (20.3 m)	8 ft 2 in	12,500 lb (5670 kg)	17.2
Jekko	JF365	25,353.2 lb	520 @ 87'07"	96 ft	49.2 ft	9.2 ft	28,555	12.6
Jekko	JF545	34,171.7 lb	992 @ 98'05"	106 ft	53.3 ft	9.4 ft	40,123	17.0
Jekko	JF990	47,399.4 lb	1796 @ 104'06"	113 ft	65.6 ft	10.3 ft	62.15	23.6
Jekko	JF235	13,560 lb	518 @ 74'6"	82 ft	72 ft	9.1 ft	-	6.78
Manitex PM	8.5 P	4410	540 @ 41 ft 0 in	50 ft 3 in	34 ft 5 in	6 ft 3 in	1945	2.205
Manitex PM	9.5 P	5290	760 @ 41 ft 10 in	51 ft	40 ft 8 in	6 ft 6 in	2340	2.6
Manitex PM	16.5 S	8070	905 @ 62 ft 4 in	75 ft 4 in	62 ft 4 in	7 ft 4 in	4255	4.035
Manitex PM	28.5 SP	13510	1480 @ 70 ft 8 in	101 ft 3 in	87 ft 11 in	7 ft 9 in	5732	6.75
Manitex PM	38.5 SP	17990	2160 @ 70 ft 8 in	101 ft 3 in	88 ft 1 in	7 ft 9 in	6835	8.995
Manitex PM	47.5 SP	27340	2570 @ 76 ft 1 in	112 ft 7 in	100 ft 7 in	8 ft 2 in	9205	13.67
Manitex PM	48.5 SP	27340	2570 @ 76 ft 7 in	113 ft	101 ft 1 in	8 ft 2 in	9625	13.67
Manitex PM	65 SP	30530	3970 @ 71 ft 6 in	119 ft	101 ft 10 in	8 ft 4 in	13151	15.26
Manitex PM	58.5 SP	32740	3120 @ 76 ft 7 in	118ft	106 ft 4 in	8 ft 2 in	10430	16.37
Manitex PM	100 SP	42220	6080 @ 73 ft 10 in	121 ft 9 in	109 ft 9 in	8 ft 2 in	16790	21.11
Manitex PM	210 SP	48150	8440 @ 86 ft 7 in	160 ft 11 in	148 ft 11 in	9 ft 4 in	20085	24.075
Manitex PM	150 SP	54010	8430 @ 71 ft 10 in	138 ft	113 ft 4 in	8 ft 8 in	24585	27
Palfinger	PK 3400	2,180	490@ 32 ft 2 in	n/s	32 ft 2 in	n/s	985	1.09
Palfinger	PK 4200	2,183	660@ 32 ft 2 in	n/s	32 ft 2 in	n/s	1082	1.09
Palfinger	PC 1500	2,200	950@ 10 ft 2 in	n/s	10 ft 2 in	n/s	375	1.1
Palfinger	PC 2700	4,400	1100@ 16 ft 5 in	n/s	16 ft 5 in	n/s	478	2.2
Palfinger	PC 3800	4,400	1600@ 16 ft 5 in	n/s	16 ft 5 in	n/s	570	2.2
Palfinger	PK 5.001 SLD 3	7,300	640@ 36 ft 5 in	n/s	36 ft 5 in	n/s	1,530	3.65
Palfinger	PK 7.001 SLD 3	7,300	930@ 36 ft 9 in	n/s	36 ft 9 in	n/s	1,650	3.65
Palfinger	PK 5.501 SLD 5	7,300	750@ 36 ft 5 in	n/s	36 ft 5 in	n/s	1,600	3.65
Palfinger	PK 7.501 SLD 5	7,300	1060@ 36 ft 9 in	n/s	36 ft 9 in	n/s	1,720	3.65
Palfinger	PK 8.501 SLD 3	12,570	1100@ 38 ft 9 in	n/s	38 ft 9 in	n/s	2,320	5.7
Palfinger	PK 11.001 SLD 3	12,570	1500@ 39 ft 6 in	n/s	39 ft 6 in	n/s	2,510	5.7
Palfinger	PK 12.501 SLD 5	12,570	1700@ 39 ft 6 in	n/s	39 ft 6 in	n/s	2,580	5.7
Palfinger	PK 9.501 SLD 5	12,570	1260@ 38 ft 9 in	n/s	38 ft 9 in	n/s	2,380	5.71
Palfinger	PK 14002-EH	13,670	1000@ 55 ft 9 in	n/s	55 ft 9 in	n/s	3,940	5.98
Palfinger	PK 22002-EH	13,440	1820@ 56 ft 1 in	n/s	56 ft 1 in	n/s	5,270	6.1
Palfinger	PK 11001 CM	12,350	1920@ 33 ft 6 in	n/s	33 ft 6 in	n/s	2,770	6.2
Palfinger	PK 18002-EH	13,670	1440@ 55 ft 9 in	n/s	55 ft 9 in	n/s	4,170	6.2
Palfinger	PK 8501 CM	12,600	1520@ 32 ft 6 in	n/s	32 ft 6 in	n/s	2,425	6.3
Palfinger	PK 14.501 SLD	13,670	1700@ 48 ft 7 in	n/s	48 ft 7 in	n/s	3,390	6.835
Palfinger	PK 17.001 SLD 3	13,700	1820@ 48 ft 7 in	n/s	48 ft 7 in	n/s	3,675	6.85
Palfinger	PK 19.001 SLD	13,700	2100@ 48 ft 7 in	n/s	47 ft 11 in	n/s	4,670	6.85
Palfinger	PK 21.501 SLD 3	13,700	2400@ 48 ft 11 in	n/s	47 ft 11 in	n/s	4,980	6.85
Palfinger	PK 24.001 SLD 5	13,700	2700@ 48 ft 11 in	n/s	47 ft 11 in	n/s	4,980	6.85
Palfinger	PK 26002-EH	19,620	1300@ 69 ft 11 in	n/s	69 ft 11 in	n/s	5,694	8.89
Palfinger	PK 30002	22,050	1560@ 69 ft 11 in	n/s	69 ft 11 in	n/s	6,340	9.09
Palfinger	PK 33002-EH	22,050	1900@ 69 ft 11 in	n/s	69 ft 11 in	n/s	6,340	9.09
Palfinger	PK 370 TEC	22,046	2150@ 71 ft 6 in	n/s	71 ft 6 in	n/s	6,770	11.02

## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Palfinger	PK 40002-EH	32,190	2450@ 68 ft 11 in	n/s	68 ft 11 in	n/s	8,490	14.2
Palfinger	PK 42002-SH	32,848	2600@ 68 ft 11 in	n/s	68 ft 11 in	n/s	8,490	16.42
Palfinger	PK 46002	34,170	3450@ 68 ft 11 in	n/s	68 ft 11 in	n/s	8,490	17.085
Palfinger	PK 480 TEC	36,380	3050@ 69 ft 7 in	n/s	69 ft 7 in	n/s	9,480	18.19
Palfinger	PK 53002-SH	39,462	3500@ 68 ft 11 in	n/s	68 ft 11 in	n/s	9,140	19.7
Palfinger	PK 63002-EH	48,500	4300@ 66 ft 11 in	n/s	66 ft 11 in	n/s	11,111	22
Palfinger	PK 580 TEC	44,090	3950@ 69ft 7 in	n/s	69 ft 7 in	n/s	10,295	22.04
Palfinger	PK 76002-EH	50,710	5600@ 66 ft 11 in	n/s	66 ft 11 in	n/s	13,029	23
Palfinger	PK 65002-SH	48,500	4600@ 66 ft 11	n/s	66 ft 11 in	n/s	11,111	24.25
Palfinger	PK 78002-SH	55,120	6000@ 66 ft 11 in	n/s	66 ft 11 in	n/s	13,025	27.56
Palfinger	PK 88002-EH	66,200	5400@ 73 ft 10 in	n/s	73 ft 10 in	n/s	14,947	30
Palfinger	PK 110002-SH	66,140	6900@ 72 ft 2 in	n/s	72 ft 2 in	n/s	19,466	33.07
Palfinger	PK 92002-SH	66,200	5400@ 73 ft 10 in	n/s	73 ft 10 in	n/s	14,947	33.1
Palfinger	PK 135.002 TEC 7	66,200	8400@ 72 ft 2 in	n/s	72 ft 2 in	n/s	22,420	33.1
Palfinger	PK 1050 TEC	66,200	7000@ 73 ft 6 in	n/s	73 ft 6 in	n/s	16,490	33.1
Palfinger	PK 165.002 TEC 7	70,600	2450@ 68 ft 10 in	n/s	68 ft 10 in	n/s	70,600	35.3
Palfinger	PK 200002L-SH	88,200	8700@ 83 ft 12 in	n/s	83 ft 12 in	n/s	33,686	44.1

## ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
IMT	2.5/18	1740	715 lb (325 kg) @ 22'8"	28' 1" (8.6 m)	23' (7 m)	5 ft	895 lb (405 kg)	0.87
Fassi	M10A 12	2194	661 lbs @ 11 ft 7 in	15 ft 7 in	5 ft 2 in	3 ft 11 in	396	1
Fassi	F22A.0.22	2193	407 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	881	1
Fassi	F28A.0.23	2193	440 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	1025	1
Fassi	F38A.0.23	2193	507 lbs @ 28 ft 8 in	33 ft 10 in	13 ft 1 in	5 ft 2 in	1267	1
Palfinger	PK 3400	2,180	490@ 32 ft 2 in	n/s	32 ft 2 in	n/s	985	1.09
Palfinger	PK 4200	2,183	660@ 32 ft 2 in	n/s	32 ft 2 in	n/s	1082	1.09
Palfinger	PC 1500	2,200	950@ 10 ft 2 in	n/s	10 ft 2 in	n/s	375	1.1
IMT	3.2/23	2195	960 lb (435 kg) @ 23'4"	29' 3" (8.9 m)	23 ft 7 in (7.2 m)	5 ft 3 in	920 lb (418 kg)	1.1
Fassi	M30A 13	4404	794 lbs @ 22 ft 4 in	27 ft 7 in	10 ft 5 in	5 ft 3 in	573	2
Palfinger	PC 2700	4,400	1100@ 16 ft 5 in	n/s	16 ft 5 in	n/s	478	2.2
Palfinger	PC 3800	4,400	1600@ 16 ft 5 in	n/s	16 ft 5 in	n/s	570	2.2
Manitex PM	8.5 P	4410	540 @ 41 ft 0 in	50 ft 3 in	34 ft 5 in	6 ft 3 in	1945	2.205
Fassi	F50A.0.24	5004	462 lbs @ 35 ft 5 in	41 ft 5 in	17 ft 6 in	5 ft 9 in	1653	2.5
Manitex PM	9.5 P	5290	760 @ 41 ft 10 in	51 ft	40 ft 8 in	6 ft 6 in	2340	2.6
Effer	65	5835	7 ft 11 in	46 ft 1 in	34 ft 1 in	78 in	1740	2.9
Fassi	F65B.1.24	6832	640 lbs @ 41 ft 11 in	46 ft 2 in	24ft 6in	6 ft 3 in	2050	3
IMT	610 MCS/RC	6526	948 lb (430 kg) @ 35'5"	43' 11" (13.4 m)	35' 4" (10.8 m)	6 ft 2 in	1,389 lb (630 kg)	3
Effer	80	6250	8 ft 4 in	46 ft 4 in	35 ft 4 in	82 in	2015	3.1
Fassi	F600SE.44	6600	1,390 lbs @ 100 ft	1,121 ft	100'	9'5"	17195	3.3
IMT	710 RCS	6526	992 lb @ 35'5"	43' 11" (13.4 m)	35' 4" (10.8 m)	6 ft 2 in	1,389 lb (630 kg)	3.4
Palfinger	PK 5.001 SLD 3	7,300	640@ 36 ft 5 in	n/s	36 ft 5 in	n/s	1,530	3.65
Palfinger	PK 5.501 SLD 5	7,300	750@ 36 ft 5 in	n/s	36 ft 5 in	n/s	1,600	3.65
Palfinger	PK 7.001 SLD 3	7,300	930@ 36 ft 9 in	n/s	36 ft 9 in	n/s	1,650	3.65
Palfinger	PK 7.501 SLD 5	7,300	1060@ 36 ft 9 in	n/s	36 ft 9 in	n/s	1,720	3.65
Effer	100	7735	7 ft 11 in	45 ft 7 in	34 ft 7 in	85 in	2380	3.8
IMT	810 MCS/RC	8245	1268 lb (575 kg) @ 36'1"	42' 5" (12.9 m)	36' 1" (11 m)	6 ft 2 in	1466 lb (665 kg)	3.8
Fassi	F85B.0.24	8377	903 lbs @ 43 ft 31 in	50 ft 4 in	30 ft 7 in	6 ft 5 in	2579	4
Manitex PM	16.5 S	8070	905 @ 62 ft 4 in	75 ft 4 in	62 ft 4 in	7 ft 4 in	4255	4.035
IMT	910 RCS	8509	1323 lb (600 kg) @ 36'1"	42' 5" (12.9 m)	36' 1" (11 m)	6 ft 2 in	1466 lb (665 kg)	4.2
IMT	1030 MCS	9281	1102 lb (500 kg) @ 45'6"	53' 4" (16.3 m)	45' 6" (13.9 m)	7 ft	2172 lb (985 kg)	4.3
Fassi	F425SE.04	9000	3,550 @ 61'	72 ft 11 in	61'	9'5"	10000	4.5
Effer	145	9180	9 ft 8 in	66 ft 1 in	55 ft 1 in	89 in	3679	4.6
IMT	10/72 DL	10384	1124 lb (510 kg) @ 45'7"	53' 4" (16.3 m)	45' 11" (14 m)	7 ft	2005 lb (1000 kg)	4.6
IMT	10/72 SL	9722	1190 lb (540 kg) @ 45'7"	53' 4" (16.3 m)	45' 11" (14 m)	7 ft	2172 lb (985kg)	4.6
IMT	1230 MCS	10163	1213 lb (550 kg) @ 48'10"	56' 5" (17.2 m)	49' 2" (15 m)	7 ft	2381 lb (1080 kg)	4.6

## ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Fassi	F95B.0.24	9744	220 lbs @ 59 ft 6 in	66 ft 8 in	30 ft 6 in	7 ft 2 in	3593	5
Fassi	F135A.2.26	10251	110 lbs @ 81 ft 4 in	89 ft	40 ft 4 in	7 ft 9 in	5423	5
Fassi	F155A.0.26	11023	220 lbs @ 81 ft 4 in	89 ft	45 ft 4 in	7 ft 9 in	6172	5
IMT	12/86 SL	10626	1301 lb (590 kg) @ 48'10"	56' 5" (17.2 m)	49' 2" (15 m)	7 ft	2381 lb (1080 kg)	5
IMT	12/86 DL	10670	1279 lb (580 kg) @ 48'10"	56' 5" (17.2 m)	49' 2" (15 m)	7 ft	2458 lb (1115 kg)	5.1
IMT	1430 MCS	11023	926 lb (420 kg) @ 56'5"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	2889 lb (1310 kg)	5.1
Effer	165	10955	9 ft 2 in	65 ft 4 in	54 ft 4 in	90 in	4010	5.5
IMT	1610 RCS	11684	1169 lb ( 530 kg) @ 56'5"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	2889 lb (1310 kg)	5.5
Palfinger	PK 8.501 SLD 3	12,570	1100@ 38 ft 9 in	n/s	38 ft 9 in	n/s	2,320	5.7
Palfinger	PK 11.001 SLD 3	12,570	1500@ 39 ft 6 in	n/s	39 ft 6 in	n/s	2,510	5.7
Palfinger	PK 12.501 SLD 5	12,570	1700@ 39 ft 6 in	n/s	39 ft 6 in	n/s	2,580	5.7
Palfinger	PK 9.501 SLD 5	12,570	1260@ 38 ft 9 in	n/s	38 ft 9 in	n/s	2,380	5.71
IMT	1620 RCS	12280	1146 lb ( 520 kg) @ 56'4"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	2,999 lb (1360 kg)	5.9
IMT	1910 RCS	13448	1543 lb ( 700 kg) @ 56'5"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	3021 lb (1370 kg)	5.9
Palfinger	PK 14002-EH	13,670	1000@ 55 ft 9 in	n/s	55 ft 9 in	n/s	3,940	5.98
Fassi	F115A.24	11904	396 lbs @ 59 ft 2 in	66 ft 2 in	30 ft 6 in	7 ft 2 in	4309	6
Fassi	F135A.0.25	12632	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4783	6
Fassi	F175A.2.26	11794	242 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7495	6
Palfinger	PK 22002-EH	13,440	1820@ 56 ft 1 in	n/s	56 ft 1 in	n/s	5,270	6.1
Palfinger	PK 11001 CM	12,350	1920@ 33 ft 6 in	n/s	33 ft 6 in	n/s	2,770	6.2
Palfinger	PK 18002-EH	13,670	1440@ 55 ft 9 in	n/s	55 ft 9 in	n/s	4,170	6.2
Palfinger	PK 8501 CM	12,600	1520@ 32 ft 6 in	n/s	32 ft 6 in	n/s	2,425	6.3
IMT	1920 RCS	15631	1543 lb ( 700 kg) @ 48'11"	65' (19.8 m)	56' 9" (17.3 m)	7 ft 4 in	3131 lb (1420 kg)	6.4
Fassi	F195A.2.26	12896	286 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7495	6.5
IMT	2310 RCS	16204	1080 lb ( 490 kg) @ 70'6"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	3869 lb (1800 kg)	6.7
Manitex PM	28.5 SP	13510	1480 @ 70 ft 8 in	101 ft 3 in	87 ft 11 in	7 ft 9 in	5732	6.75
Jekko	JF235	13,560 lb	518 @ 74'6"	82 ft	72 ft	9,1 ft	-	6.78
Palfinger	PK 14.501 SLD	13,670	1700@ 48 ft 7 in	n/s	48 ft 7 in	n/s	3,390	6.835
Palfinger	PK 17.001 SLD 3	13,700	1820@ 48 ft 7 in	n/s	48 ft 7 in	n/s	3,675	6.85
Palfinger	PK 19.001 SLD	13,700	2100@ 48 ft 7 in	n/s	47 ft 11 in	n/s	4,670	6.85
Palfinger	PK 21.501 SLD 3	13,700	2400@ 48 ft 11 in	n/s	47 ft 11 in	n/s	4,980	6.85
Palfinger	PK 24.001 SLD 5	13,700	2700@ 48 ft 11 in	n/s	47 ft 11 in	n/s	4,980	6.85
IMT	2320 RCS	20260	1080 lb ( 490 kg) @ 70'5"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	4145 lb (1880 kg)	6.9
Fassi	F155A.0.25	13911	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4795	7
Fassi	F215A.2.26	13668	330 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7716	7
IMT	2810 RCS	20018	1521 lb ( 690 kg) @ 70'6"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	4178 lb (1895 kg)	7.4
IMT	2820 RCS	20260	1521 lb ( 690 kg) @ 70'6"	79' 1" (24.1 m)	70' 10" (21.6 m)	7 ft 6 in	4365 lb (1980 kg)	7.4
Effer	225	15990	9 ft 8 in	60 ft 0 in	55 ft 7 in	92 in	6250	8.1
Fassi	F175A.0.25	17636	220 lbs @ 80 ft 6 in	88 ft	37 ft 8 in	7 ft 10 in	6547	8.5
Fassi	F245A.2.28	17636	473 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9500	8.5
Fassi	F275A.2.28	17636	606 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9500	8.5
Palfinger	PK 26002-EH	19,620	1300@ 69 ft 11 in	n/s	69 ft 11 in	n/s	5,694	8.89
Effer	265	17855	9 ft 8 in	67 ft 7 in	55 ft 7 in	92 in	6250	8.9
Manitex PM	38.5 SP	17990	2160 @ 70 ft 8 in	101 ft 3 in	88 ft 1 in	7 ft 9 in	6835	8.995
Palfinger	PK 30002	22,050	1560@ 69 ft 11 in	n/s	69 ft 11 in	n/s	6,340	9.09
Palfinger	PK 33002-EH	22,050	1900@ 69 ft 11 in	n/s	69 ft 11 in	n/s	6,340	9.09
Fassi	F195A.0.25	19102	330 lbs @ 80 ft 8 in	88 ft	43 ft 8 in	7 ft 10 in	6889	9.5
Fassi	F245A.0.26	19620	551 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8500	9.5
Fassi	F275A.0.26	29762	617 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8500	9.5
IMT	32/222	15058	1764 lb ( 800 kg) @ 69'6"	77' 10" (23.7 m)	69' 11" (21.3 m)	7 ft 9 in	5710 lb (2590 kg)	9.5
IMT	40/275	19025	2225 lb ( 1010 kg) @ 69'10"	79' 1" (24.1 m)	69' 11" (21.3 m)	7 ft 10 in	6945 lb (3150 kg)	9.7
Fassi	F215A.0.25	20657	385 lbs @ 80 ft 6 in	88 ft	43 ft 8 in	7 ft 10 in	6889	10
Fassi	F295A.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12500	10.5
Fassi	F295RA.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12500	10.5
Fassi	F335A.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12500	10.5
Fassi	F335RA.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12500	10.5
Palfinger	PK 370 TEC	22,046	2150@ 71 ft 6 in	n/s	71 ft 6 in	n/s	6,770	11.02
Effer	315	22640	8 ft 10 in	81 ft 9 in	69 ft 9 in	93 in	7195	11.3
IMT	50/345	22840	3085 lb ( 1400 kg) @ 70'3"	78' 11" (24.1 m)	70' 3" (21.4 m)	7 ft 10 in	7959 lb (3610 kg)	11.4



## ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Effer	375	24165	9 ft 5 in	82 ft 1 in	70 ft 1 in	95 in	8320	12.1
Jekko	JF365	25,353.2 lb	520 @ 87'07"	96 ft	49.2 ft	9.2 ft	28,555	12.6
Effer	395	25570	9 ft 5 in	82 ft 1 in	70 ft 1 in	95 in	8320	12.8
Fassi	F385A.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17500	13
Fassi	F385RA.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17500	13
Manitex PM	47.5 SP	27340	2570 @ 76 ft 1 in	112 ft 7 in	100 ft 7 in	8 ft 2 in	9205	13.67
Manitex PM	48.5 SP	27340	2570 @ 76 ft 7 in	113 ft	101 ft 1 in	8 ft 2 in	9625	13.67
IMT	7020	30490	4519 lb ( 2050 kg) @ 66'11"	76' 1" (23.2 m)	67' 7" (20.6 m)	8 ft 1 in	9844 lb (4465 kg)	13.9
Palfinger	PK 40002-EH	32,190	2450@68 ft 11 in	n/s	68 ft 11 in	n/s	8,490	14.2
Fassi	F455A.2.28	29762	485 lbs @ 101 ft 10 in	106ft	72 ft 11 in	8 ft 6 in	13558	15
Fassi	F455RA.2.28	29762	485 lbs @ 101 ft 10 in	106ft	72 ft 11 in	8 ft 6 in	13558	15
Manitex PM	65 SP	30530	3970 @ 71 ft 6 in	119 ft	101 ft 10 in	8 ft 4 in	13151	15.26
Effer	455/505	31305	9 ft 10 in	82 ft 9 in	70 ft 9 in	96 in	11195	15.6
Manitex PM	58.5 SP	32740	3120 @ 76 ft 7 in	118ft	106 ft 4 in	8 ft 2 in	10430	16.37
Palfinger	PK 42002-SH	32,848	2600@68 ft 11 in	n/s	68 ft 11 in	n/s	8,490	16.42
Fassi	F515RA.2.28	35273	661 lbs @ 100 ft 5 in	106ft	75 ft 9 in	8 ft 6 in	13558	16.5
Jekko	JF545	34,171.7 lb	992 @ 98'05"	106 ft	53.3 ft	9.4 ft	40,123	17
Palfinger	PK 46002	34,170	3450@68 ft 11 in	n/s	68 ft 11 in	n/s	8,490	17.085
IMT	9520	40433	6305 lb ( 2860 kg) @ 65'11"	72' 2" (22 m)	66' 7" (20.3 m)	8 ft 2 in	12,500 lb (5670 kg)	17.2
Fassi	F660RA.2.28	35273	485 lbs @ 116 ft 5 in	131 ft 3 in	75 ft 9 in	8 ft 6 in	15000	17.5
Palfinger	PK 480 TEC	36,380	3050@ 69 ft 7 in	n/s	69 ft 7 in	n/s	9,480	18.19
Palfinger	PK 53002-SH	39,462	3500@68 ft 11 in	n/s	68 ft 11 in	n/s	9,140	19.7
Effer	655/685	41300	9 ft 6 in	87 ft 5 in	75 ft 5 in	97 in	12420	20.6
Manitex PM	100 SP	42220	6080 @ 73 ft 10 in	121 ft 9 in	109 ft 9 in	8 ft 2 in	16790	21.11
Palfinger	PK 63002-EH	48,500	4300@66 ft 11 in	n/s	66 ft 11 in	n/s	11,111	22
Palfinger	PK 580 TEC	44,090	3950@ 69ft 7 in	n/s	69 ft 7 in	n/s	10,295	22.04
Palfinger	PK 76002-EH	50,710	5600@66 ft 11 in	n/s	66 ft 11 in	n/s	13,029	23
Jekko	JF990	47,399.4 lb	1796 @ 104'06"	113 ft	65.6 ft	10.3 ft	62.15	23.6
Fassi	F800RA.2.28	48501	727 lbs @ 109 ft 10 in	124 ft	75 ft 9 in	8 ft 6 in	17600	24
Fassi	F950RA.2.28	48501	551 lbs @ 121 ft 10 in	136 ft	80 ft	8 ft 6 in	19000	24
Manitex PM	210 SP	48150	8440 @ 86 ft 7 in	160 ft 11 in	148 ft 11 in	9 ft 4 in	20085	24.075
Palfinger	PK 65002-SH	48,500	4600@66 ft 11	n/s	66 ft 11 in	n/s	11,111	24.25
Effer	1355	51145	13 ft 7 in	84 ft 3 in	72 ft 3 in	101 in	23445	25.5
Effer	855	52685	9 ft 6 in	82 ft 6 in	75 ft 3 in	98 in	15895	26.3
Manitex PM	150 SP	54010	8430 @ 71 ft 10 in	138 ft	113 ft 4 in	8 ft 8 in	24585	27
Effer	955	54780	9 ft 6 in	82 ft 6 in	75 ft 3 in	98 in	15895	27.3
Fassi	F1100RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 2 in	8 ft 6 in	23000	27.5
Fassi	F1300RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 4 in	8 ft 6 in	33500	27.5
Palfinger	PK 78002-SH	55,120	6000@66 ft 11 in	n/s	66 ft 11 in	n/s	13,025	27.56
Fassi	F1950RAL.2.28	58973	727 lbs @ 151 ft 5 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45000	29
Effer	1405	52025	13 ft 7 in	84 ft 3 in	72 ft 3 in	101 in	23545	29.4
Palfinger	PK 88002-EH	66,200	5400@73 ft 10 in	n/s	73 ft 10 in	n/s	14,947	30
Fassi	F2150RAL.2.28	63272	728 lbs @ 152 ft 8 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45000	32
Fassi	F1500RA.2.28	66138	727 lbs @ 120 ft 4 in	134 ft 2 in	72 ft 2 in	8 ft 6 in	35000	33
Palfinger	PK 110002-SH	66,140	6900@72 ft 2 in	n/s	72 ft 2 in	n/s	19,466	33.07
Palfinger	PK 92002-SH	66,200	5400@73 ft 10 in	n/s	73 ft 10 in	n/s	14,947	33.1
Palfinger	PK 1050 TEC	66,200	7000@ 73 ft 6 in	n/s	73 ft 6 in	n/s	16,490	33.1
Palfinger	PK 135.002 TEC 7	66,200	8400@72 ft 2 in	n/s	72 ft 2 in	n/s	22,420	33.1
Palfinger	PK 165.002 TEC 7	70,600	2450@ 68 ft 10 in	n/s	68 ft 10 in	n/s	70,600	35.3
Effer	1750	63380	14 ft 2 in	76 ft 8 in	64 ft 8 in	104 in	26565	37.2
Effer	2655	60185	15 ft 0 in	104 ft 11 in	90 ft 0 in	108 in	37367	37.6
Effer	1855	65035	14 ft 2 in	84 ft 2 in	72 ft 2 in	104 in	26715	38.2
Effer	2055	71205	13 ft 2 in	84 ft 2 in	71 ft 5 in	106 in	28395	38.9
Effer	2255	66135	14 ft 5 in	98 ft 5 in	141 ft 10 in	111 in	39903	39.7
Palfinger	PK 200002L-SH	88,200	8700@ 83 ft 12 in	n/s	83 ft 12 in	n/s	33,686	44.1
Effer	2755	108025	9 ft 11 in	45 ft 11 in	36 ft 10 in	83 in	56980	54.1

**INDUSTRIAL CRANES** BY MANUFACTURER

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/ in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Bailey Cranes	Junior	700 lbs @ 11 ft	19 ft	11 ft	1.75	4300	34.5 in	Battery	75	0.88	0.97
Bailey Cranes	Brandon 6E	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5500	34.5 in	Battery	75	0.88	0.97
Bailey Cranes	OMNI	500 lbs @ 14 ft	22 ft	14 ft	1.75	5800	4 ft 10 in	Battery	75	1.13	1.25
Bailey Cranes	Brandon 6	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5500	34.5 in	Battery	75	1.36	1.5
Bailey Cranes	Brandon 10	1,000 lb @ 20 ft	29 ft	20 ft	5	10500	5 ft	Battery	75	4.5	5
Bailey Cranes	BC 18	1,950 lbs @ 30 ft	46 ft	34 ft	5	20000	6 ft 6 in	Battery/Hybrid	75	8.16	9
Brodersen	IC-20	1,200 lbs @ 15 ft	27 ft 9 in	6 ft /15 ft	5.5 mph	6,380 lbs	4 ft	D/Dual Fuel	75	2.27	2.5
Brodersen	IC-35	1,850 lbs @ 19 ft	33 ft	7 ft 2in - 19 ft 2in	10 mph	7,860 lbs	5 ft	D/Dual Fuel	75	3.6	4
Brodersen	IC-40	1,850 lbs @ 19 ft	33 ft	7 ft 2in - 19 ft 2in	10 mph	8,920 lbs	5 ft 4 in	D/Dual Fuel	75	4.08	4.5
Brodersen	IC-80-1	3,800 lbs @ 20 ft	37 ft 5 in	8 ft 2 in - 20 ft 2in	22 mph	16,200 lbs	6 ft 6 in	D/Dual Fuel	75	8.16	9
Brodersen	IC-80-2	3,100 lbs @ 24 ft	41 ft	9 ft 5 in - 24 ft	22 mph	16,400 lbs	6 ft 6 in	D/Dual Fuel	75	8.16	9
Brodersen	IC-80-3	2,150 lbs@ 30 ft	45 ft 8 in	11 ft 6 in - 30 ft	22 mph	16,750 lbs	6 ft 6 in	D/Dual Fuel	75	8.16	9
Brodersen	ICe-80	2,150 lbs@ 30 ft	46 ft 8 in	11 ft 6 in - 30 ft	17 mph	16,400 lbs	6 ft 6 in	Electric	75	8.16	9
Brodersen	IC-100-3	1,900 lbs@ 33 ft	49 ft 3 in	13 ft 3 in - 33 ft	22 mph	18,270 lbs	6 ft 6 in	D/Dual Fuel	75	9	10
Brodersen	IC-200-2	4,200 lbs @ 36 ft	45 ft 4 in	15 ft 2 in - 36 ft 2 in	18 mph	28,500 lbs	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Brodersen	IC-200-3	2,600 lbs @ 50 ft	58 ft 8 in	15 ft 6 in - 50 ft 6 in	18 mph	31,080 lbs	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Brodersen	IC-250	3,650 lbs @ 50 ft	87 ft 11 in	15 ft 7 in - 50 ft 1 in	18 mph	37,700 lbs	7 ft 10 in	D/LPG	75	16.3	18
Brodersen	IC-280	1,200 lbs. @ 79 ft	89 ft. 9 in.	18 ft 11 in - 64 ft 4 in	19 mph	41,430 lbs	7 ft 10 in	Diesel	75	18.14	20
Brodersen	IC-400	1,500 lbs @ 88 ft	99 ft	22 ft 9 in - 69 ft	23 mph	55,200 lbs	8 ft 5 1/4 in	Diesel	75	22.7	25
Franna	AT 15-3	33,000	55.7	59	49	35,300		D		15	17
Franna	AT 22	48,500	45 ft 5 in	59	49	44,100		D		22	24
Franna	MAC 25-4	55,100	60 ft 5 in	60	49	52,700		D		25	27
Franna	AT 40	88,100	65 ft	65	46	65,100		D		40	44
Jekko	JF365	520 @ 8707"	96 ft	49.3 ft	1.5	29073 lbs	5 ft 10.8 in	D+E	125	11.5	0.126
Jekko	MPK06	364 lbs @ 7 ft	14 ft	3 to 9 ft	2.2	1563 lbs	2 ft 6 in	E	125	0.6	0.66
Jekko	MPK10	617 lbs @ 7.5 ft	16 ft	5 to 11 ft	2.3	2304 lbs	3 ft 1 in	E	125	1	1.1
Jekko	MPK20R	309 lbs @ 16ft	24 ft	7 to 20 ft	N/A	4303 lbs	17 ft 7 in	E	125	2	2.2
Jekko	SPX328	220 lbs @ 34 ft	42 ft	8 to 27 ft	1.2 to 2.9	5070 lbs	2 ft 1 in	E	125	2.8	3
Jekko	SPX532	220 lbs @ 48 ft	57 ft	8 to 34 ft	1.7	5556 lbs	2 ft 6 in	D+E / E	125	3.2	3.5
Jekko	MPK50	1320 lbs @ 20.5 ft	31 ft	9 to 22 ft	6.4	9790 lbs	10 ft 8 in	E	125	5	5.5
Jekko	JF235	518 @ 746"	83 ft	N/A	N/A	22622 lbs	4 ft 5 in	D+E	125	6.1	6.78
Jekko	SPX650	330 lbs @ 65 ft	77 ft	13 to 50 ft	1.8	14,107 lbs	3 ft 4 in	D+E / E	125	5	7.1
Jekko	SPX1280	220 lbs @ 66 ft	88 ft	16 to 58 ft	1.7	20629 lbs	4 ft 8.4 in	D+E / E	125	8	8.8
Jekko	JF365	520 @ 8707"	96 ft	49.3 ft	1.5	29073 lbs	5 ft 10.8 in	D+E	125	11.5	12.67
Jekko	JF545	992 @ 9805"	100 ft	53.3 ft	1.3	32510 lbs	6 ft	D+E	125	15.5	17
Jekko	JF990	1796 @ 10406"	113 ft	65.6 ft	1.4	49214 lbs	7 ft	D+E	125	21.5	23.6
JMG	MC20	550 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	2.5	4400	3in 1 ft	E	n/s	2	2.2
JMG	MC20	550 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	2.5	4400	3in 1ft	E	n/s	2	2.2
JMG	MC22	550 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	3	4500	3in 1 ft	E	n/s	2.18	2.4
JMG	MC22	550 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	3	4500	3in 1ft	E	n/s	2.18	2.4
JMG	MC20S	600 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	2.5	5500	3in 1 ft	E	n/s	2.5	2.75
JMG	MC25	600 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	3	5500	3in 1 ft	E	n/s	2.5	2.75
JMG	MC20S	600 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	2.5	5500	3in 1ft	E	n/s	2.5	2.75
JMG	MC25	600 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	3	5500	3in 1ft	E	n/s	2.5	2.75
JMG	MC32	1030 lbs @ 13in 1 ft	22 ft	11ft /13in 1ft	3	6750	3in 2 ft	E	n/s	3.18	3.5
JMG	MC32	1030 lbs @ 13in 1ft	22 ft	11ft /13in 1ft	3	6750	3in 2ft	E	n/s	3.18	3.5
JMG	MC40S	1750 lbs @ 14in 5 ft	23 ft	8ft /14in 5ft	3	10560	3in 11ft	E	n/s	4.5	4.95
JMG	MC45	1750 lbs @ 13in 11 ft	23 ft	8ft /13in 11ft	5	10500	5in 1 ft	E	n/s	4.5	4.95
JMG	MC40S	1750 lbs @ 14in 5ft	23 ft	8ft /14in 5ft	3	10560	3in 11ft	E	n/s	4.5	4.95
JMG	MC45	1750 lbs @ 13in 11ft	23 ft	8ft /13in 11ft	5	10500	5in 1ft	E	n/s	4.5	4.95
JMG	MC60	2100 lbs @ 18in 1ft	28 ft	1in 8ft /18in 1ft	5	14300	5in 5 ft	E	n/s	6	6.6
JMG	MC60	2100 lbs @ 18in 1ft	28 ft	1in 8ft /18in 1ft	5	14300	5in 5ft	E	n/s	6	6.6
JMG	MC85	3600 lbs @ 15in 8ft	26 ft	1in 8ft /15in 8ft	5	20000	5in 7 ft	E/D	n/s	8.5	9.35
JMG	MC85	3600 lbs @ 15in 8ft	26 ft	1in 8ft /15in 8ft	5	20000	5in 7ft	E/D	n/s	8.5	9.35
JMG	MC110	4400 lbs @ 23in 6ft	35 ft	3in 3ft /23in 6ft	5	29650	6in 5 ft	E/D	n/s	11	12.1
JMG	MC110	4400 lbs @ 23in 6ft	35 ft	3in 3ft /23in 6ft	5	29650	6in 5ft	E/D	n/s	11	12.1
JMG	MC160	6200 lbs @ 24in 7ft	36 ft	3in 3ft /24in 7ft	5	41000	6in 9 ft	E	n/s	16.04	17.65
JMG	MC160	6200 lbs @ 24in 7ft	36 ft	3in 3ft /24in 7ft	5	41000	6in 9ft	E	n/s	16.04	17.65

## INDUSTRIAL CRANES BY MANUFACTURER

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/ in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
JMG	MC220	8200 lbs @ 25in 3ft	38 ft	3in 3ft /25in 3ft	5	50400	7in 3 ft	E	n/s	22.04	24.25
JMG	MC220	8200 lbs @ 25in 3ft	38 ft	3in 3ft /25in 3ft	5	50400	7in 3ft	E	n/s	22.04	24.25
JMG	MC300	10100 lbs @ 27in 8ft	42 ft	3in 3ft /27in 8ft	5	59800	7in 5 ft	E	n/s	30	33
JMG	MC300	10100 lbs @ 27in 8ft	42 ft	3in 3ft /27in 8ft	5	59800	7in 5ft	E	n/s	30	33
JMG	MC450	13900 lbs @ 27in 11ft	40 ft	3in 3ft /27in 11ft	5	70500	7in 6 ft	E	n/s	45.09	49.6
JMG	MC450	13900 lbs @ 27in 11ft	40 ft	3in 3ft /27in 11ft	5	70500	7in 6ft	E	n/s	45.09	49.6
JMG	MC500	14300 lbs @ 30in 5ft	45 ft	3in 3ft /30in 5ft	3	83600	7in 10f t	E	n/s	50.09	55.1
JMG	MC500	14300 lbs @ 30in 5ft	45 ft	3in 3ft /30in 5ft	3	83600	7in 10ft	E	n/s	50.09	55.1
JMG	MC600	15400 lbs @ 30in 5ft	45 ft	3in 3ft /30in 5ft	3	85800	7in 10 ft	E	n/s	60	66
JMG	MC600	15400 lbs @ 30in 5ft	45 ft	3in 3ft /30in 5ft	3	85800	7in 10ft	E	n/s	60	66
Lift Systems	MBL033	20.800 lbs@ 20.5 ft	33 ft	15-30 ft	1.7	36000	6 ft0 in	D/LPG	0.85	30	33
Lift Systems	MBL033	20.800 lbs@ 20.5 ft	33 ft	15-30 ft	1.7	36000	6 ft0 in	D/LPG	0.85	30	33
Lift Systems	TWL040	24.100 lbs@ 19 ft	30.5 ft	13-29 ft	1.7	32000	7 ft 3 in	D/LPG	0.85	36	40
Lift Systems	TWL040	24.100 lbs@ 19 ft	30.5 ft	13-29 ft	1.7	32000	7 ft3 in	D/LPG	0.85	36	40
Lift Systems	MBL075	18.800 lbs@ 35 ft	44 ft	20-44 ft	1.7	49000	7 ft 11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30.200 lbs@ 22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48000	7 ft 10 in	D/LPG	0.85	68	75
Lift Systems	MBL075	18.800 lbs@ 35 ft	44 ft	20-44 ft	1.7	49000	7 ft11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30.200 lbs@ 22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48000	7 ft10 in	D/LPG	0.85	68	75
Lift Systems	MBL110	29.200 lbs@ 35 ft	44 ft	21-45 ft	1.7	70000	8 ft6 in	D/LPG	0.85	100	110
Lift Systems	TWL110	38.900 lbs@ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	MBL110	29.200 lbs@ 35 ft	44 ft	21-45 ft	1.7	70000	8 ft6 in	D/LPG	0.85	100	110
Lift Systems	TWL110	38.900 lbs@ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70000	8 ft6 in	D/LPG	0.85	100	110
Maeda	MC090-3	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.37	4390	30 in	D/E/Battery	85	0.9	0.995
Maeda	MC270-3	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.37	4390	30 in	D/E/Battery	85	2.7	2.95
Maeda	MC285-2	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.36	4200	30 in	LPG/Gas	85	2.82	3.1
Maeda	MC285-3	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.37	4390	30 in	D/E/Battery	85	2.82	3.1
Maeda	MC305-3	570 lbs @ 39 ft 6 in	47 ft 0 in	12 ft 1 in-41 ft 0 in	1.74	8600	51 in	D/E	85	2.98	3.28
Maeda	MC405-3	500 lbs @ 52 ft 5 in	67 ft 11 in	15 ft 6 in-54 ft 0 in	2.05	12400	55 in	D/E	85	3.84	4.24
Maeda	CC1485-1	940 lbs @ 52 ft 10 in	72 ft 2 in	15 ft 6 in-53 ft 4 in	1.99	31750	8 ft2 in	D	75	6	6.61
Manitex Valla	19	880 lbs @ 10 ft	15 ft	83	2.5	4400 lbs	37 in	Battery	125	.9 t	1
Manitex Valla	25 EL	880 lbs @ 10 ft	15 ft	83	2.5	4400 lbs	37 in	Battery	125	2.25	2.5
Manitex Valla	25 E	1100 lbs @ 10 ft	15 ft	83	2.5	5300 lbs	37 in	Battery	125	2.5	2.75
Manitex Valla	V40R	990 lbs @ 16 ft	24 ft	90	3.2	8,800 lbs	39 in	Battery	125	4	4.4
Manitex Valla	50	1760 lbs @ 16 ft	25 ft	106	5.6	12120 lbs	55 in	Battery/Diesel	125	5	5.5
Manitex Valla	75	1980 lbs @ 17 ft	26 ft	133	5.6	13450 lbs	68 in	Battery/Diesel	125	7.5	8.25
Manitex Valla	V90R	2200 lbs @ 18 ft	30.8 ft	n/s	5.6	16940 lbs	55 in	Battery	125	8	8.8
Manitex Valla	V120R	4180 lbs @ 21 ft	34 ft	n/s	5.6	24,000 lbs	58 in	Battery	125	11	12
Manitex Valla	120	3970 lbs @ 25 ft	33 ft	159	5.6	30,850	82 in	Battery/Diesel	125	12	13.2
Manitex Valla	180	6600 lbs @ 24 ft	35 ft	176	5	41,850	86 in	Battery/Diesel	125	18	19.8
Manitex Valla	V230R	7920 lbs @ 26 ft	38 ft	n/s	5	51700 lbs	78 in	Battery	125	21	23
Manitex Valla	250	4180 lbs @ 33 ft	45 ft	191	5	53,350	90 in	Battery Diesel	125	25	27.5
Manitex Valla	400	18070 lbs @ 24 ft	36 ft	223	5	70,550	92 in	Battery	125	40	44
Manitex Valla	V1100R	30800 lbs @ 37 ft	55 ft	n/s	5	n/a	95 in	Battery	125	100	110
Ormig	5.5TME	1660lbs@ 19ft	29.52 ft	12.46/31.16ft	3	15652	5 ft	E	n/s	5.5	6.06
Ormig	10TM	4519lbs@ 19ft	28 ft	14-31ft	8.56	22928	7 ft	D	n/s	10	11.02
Ormig	10TME	4519lbs@ 19ft	28 ft	14-31ft	6.35	22928	7 ft	E	n/s	10	11.02
Ormig	15iE	5070lbs@ 23ft	36ft	14-35ft	2.2	28660	6 ft	E	n/s	15	16.53
Ormig	16TM	5291lbs@ 22ft	34ft	15-35ft	19.91	31085	7 ft 50 in	D	n/s	16	17.64
Ormig	16TME	5291lbs@ 22ft	34 ft	15-35ft	7.57	31746	7 ft 50 in	E	n/s	16	17.64
Ormig	20/25TM	9259lbs@ 25ft	40 ft	17-40ft	17.09	39683	8 ft 20 in	D	n/s	20/25	27.56
Ormig	25TME	9259lbs@ 25ft	40ft	17-40ft	6.42	45194	8 ft 20 in	E	n/s	25	27.56
Ormig	33TM	11023lbs@ 27ft	47 ft	21-45ft	15.53	61729	8 ft 20 in	D	n/s	33	36.8
Ormig	33TME	11023lbs@ 27ft	47 ft	21-45ft	4.39	63493	8 ft 20 in	E	n/s	33	36.8
Ormig	35iE	11023lbs@ 26ft	40 ft	16.5-40ft	3.9	40785	6 ft 10 in	E	n/s	35	38.58
Ormig	40iE	13227lbs@ 28ft	42 ft	19-43ft	4	46517	7 ft 2 in	E	n/s	40	44
Ormig	45TME	17416lbs@ 29ft	46ft	20-47ft	3.34	63934	9 ft	E	n/s	45	49.59
Ormig	50/55TM	19621 lbs@ 29 ft	46 ft	20-47ft	16.59	63934	8 ft 20 in	D	n/s	50/55	60.63
Ormig	55/60iE	19180 lbs@ 28 ft	42 ft	19-43ft	3.9	52910	7 ft7in	E	n/s	60	66.1



## INDUSTRIAL CRANES BY MANUFACTURER

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Ormig	100IE	23810 lbs@ 29 ft	44 ft	19-46ft	2.8	58423	8 ft 0.5in	E	n/s	100	110.2
Ormig	75tm	23148 lbs@ 34 ft	51 ft	22-54ft	15.9	79366	9ft 9in	D	n/s	75	82.67
Shuttlelift	SCD09	1.080 lbs @ 42 ft	48 ft	14.2/33.2 ft	19.2	16900	6 ft 6 in	D & LPG/Gas	n/s	8.1	9
Shuttlelift	SCD15	1.140 lbs @ 61.5 ft	69.5 ft	17/ 50 ft	16	25200	7 ft 10 in	D & LPG/Gas	n/s	13.6	15
Shuttlelift	SCD20	800 lbs @ 76 ft	86 ft	18.5/54.5 ft	21	36600	8 ft 1 in	D & LPG/Gas	n/s	18.1	20
Shuttlelift	SCD25	1.440 lbs @ 84 ft	95 ft	23/70.5 ft	19.4	45700	8 ft 1 in	D	n/s	22.7	25
SPYDERCRANE	PC094	440 lbs @ 17.37 ft	22 ft	5.675 ft - 22 ft	2.5	2100	31 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW094	440 lbs @ 16.96 ft	22 ft	5.675 ft - 22 ft	1.5	2500	23 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW095	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
SPYDERCRANE	PC094	450 lbs @ 13 ft	18 ft	5.8 ft - 18 ft	1.5	2,900	31 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW094	440 lbs @ 16.96 ft	22 ft	5.675 ft - 22 ft	1.5	2,500	23 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW095	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,800	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
SPYDERCRANE	PC295	418 lbs @ 18.8 ft	24 ft	8.3 ft - 28.4 ft	1.5	4,000	31 in	220V/110V/Battery	n/s	2.3	2.6
SPYDERCRANE	URW205S	460 lbs @ 24.1 ft	27 ft	8.3 ft - 24.9 ft	1.5	4,100 - 4,500	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW306	280 lbs @ 47.3 ft	52 ft	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW506	390 lbs @ 49.9	55 ft	13.1 ft - 49.9 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW205	460 lbs @ 24.1 ft	37 ft	8.3 ft - 28.4 ft	1.5	4,200 - 4,800	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW306	280 lbs @ 47.3 ft	52 ft	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW506	390 lbs @ 49.9	55 ft	13.1 ft - 49.9 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW295	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	2.9	3.2
SPYDERCRANE	URW295	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,800	24 in	220V/D/G/LPG/110V/Battery	n/s	2.9	3.2
SPYDERCRANE	URW376	280 lbs @ 47.3 ft	58 ft w/ jib	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.93	3.3
SPYDERCRANE	URW376	280 lbs @ 47.3 ft	58 ft w/ jib	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.93	3.3
SPYDERCRANE	URW547	220 lbs @ 58.5	64 ft	13.1 ft - 59.1 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	4.04	4.5
SPYDERCRANE	URW547	220 lbs @ 58.5	64 ft	13.1 ft - 59.1 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	4.04	4.5
SPYDERCRANE	URW706	550 lbs @ 61 ft	80 ft w/ jib	15.7 ft - 63 ft	2.5	17,600 - 18,000	64 in	220V/D/110V/Battery	n/s	6.04	6.7
SPYDERCRANE	URW706	550 lbs @ 61 ft	80 ft w/ jib	15.7 ft - 63 ft	2.5	17,600 - 18,300	64 in	220V/D/110V/Battery	n/s	6.04	6.7
SPYDERCRANE	URW1006	630 lbs @ 72 ft	104 ft w/ jib	19 ft - 76 ft	2	29,500-30,865	79 in	220V/D/110V/Battery	n/s	10.14	11.2

## INDUSTRIAL CRANES BY CAPACITY

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Jekko	JF365	520 @ 8707"	96 ft	49.3 ft	1.5	29073 lbs	5 ft 10.8 in	D+E	125	11.5	0.126
Jekko	MPK06	364 lbs @ 7 ft	14 ft	3 to 9 ft	2.2	1563 lbs	2 ft 6 in	E	125	0.6	0.66
Bailey Cranes	Junior	700 lbs @ 11 ft	19 ft	11 ft	1.75	4300	34.5 in	Battery	75	0.88	0.97
Bailey Cranes	Brandon GE	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5500	34.5 in	Battery	75	0.88	0.97
Maeda	MC090-3	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.37	4390	30 in	D/E/Battery	85	0.9	0.995
Manitex Valla	19	880 lbs @ 10 ft	15 ft	83	2.5	4400 lbs	37 in	Battery	125	.9 t	1
SPYDERCRANE	PC094	440 lbs @ 17.37 ft	22 ft	5.675 ft - 22 ft	2.5	2100	31 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW094	440 lbs @ 16.96 ft	22 ft	5.675 ft - 22 ft	1.5	2500	23 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW095	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
SPYDERCRANE	PC094	450 lbs @ 13 ft	18 ft	5.8 ft - 18 ft	1.5	2,900	31 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW094	440 lbs @ 16.96 ft	22 ft	5.675 ft - 22 ft	1.5	2,500	23 in	220V/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW095	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,800	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
Jekko	MPK10	617 lbs @ 7.5 ft	16 ft	5 to 11 ft	2.3	2304 lbs	3 ft 1 in	E	125	1	1.1
Bailey Cranes	OMNI	500 lbs @ 14 ft	22 ft	14 ft	1.75	5800	4 ft 10 in	Battery	75	1.13	1.25
Bailey Cranes	Brandon 6	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5500	34.5 in	Battery	75	1.36	1.5
Jekko	MPK20R	309 lbs @ 16ft	24 ft	7 to 20 ft	N/A	4303 lbs	17 ft 7 in	E	125	2	2.2
JMG	MC20	550 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	2.5	4400	3in 1 ft	E	n/s	2	2.2
JMG	MC20	550 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	2.5	4400	3in 1ft	E	n/s	2	2.2
JMG	MC22	550 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	3	4500	3in 1 ft	E	n/s	2.18	2.4
JMG	MC22	550 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	3	4500	3in 1ft	E	n/s	2.18	2.4
Broderson	IC-20	1,200 lbs @ 15 ft	27 ft 9 in	6 ft /15 ft	5.5 mph	6,380 lbs	4 ft	D/Dual Fuel	75	2.27	2.5
Manitex Valla	25 EL	880 lbs @ 10 ft	15 ft	83	2.5	4400 lbs	37 in	Battery	125	2.25	2.5
SPYDERCRANE	PC295	418 lbs @ 18.8 ft	24 ft	8.3 ft - 28.4 ft	1.5	4,000	31 in	220V/110V/Battery	n/s	2.3	2.6

## INDUSTRIAL CRANES BY CAPACITY

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/ in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
JMG	MC20S	600 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	2.5	5500	3in 1 ft	E	n/s	2.5	2.75
JMG	MC25	600 lbs @ 12in 11 ft	20 ft	10ft /12in 11ft	3	5500	3in 1 ft	E	n/s	2.5	2.75
JMG	MC20S	600 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	2.5	5500	3in 1ft	E	n/s	2.5	2.75
JMG	MC25	600 lbs @ 12in 11ft	20 ft	10ft /12in 11ft	3	5500	3in 1ft	E	n/s	2.5	2.75
Manitex Valla	25 E	1100 lbs @ 10 ft	15 ft	83	2.5	5300 lbs	37 in	Battery	125	2.5	2.75
SPYDERCRANE	URW205S	460 lbs @ 24.1 ft	27 ft	8.3 ft - 24.9 ft	1.5	4,100 - 4,500	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW306	280 lbs @ 47.3 ft	52 ft	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW506	390 lbs @ 49.9	55 ft	13.1 ft - 49.9 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW205	460 lbs @ 24.1 ft	37 ft	8.3 ft - 28.4 ft	1.5	4,200 - 4,800	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW306	280 lbs @ 47.3 ft	52 ft	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW506	390 lbs @ 49.9	55 ft	13.1 ft - 49.9 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	2.6	2.9
Maeda	MC270-3	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.37	4390	30 in	D/E/Battery	85	2.7	2.95
Jekko	SPX328	220 lbs @ 34 ft	42 ft	8 to 27 ft	1.2 to 2.9	5070 lbs	2 ft 1 in	E	125	2.8	3
Maeda	MC285-2	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.36	4200	30 in	LPG/Gas	85	2.82	3.1
Maeda	MC285-3	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in-28 ft 1 in	1.37	4390	30 in	D/E/Battery	85	2.82	3.1
SPYDERCRANE	URW295	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	2.9	3.2
SPYDERCRANE	URW295	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,800	24 in	220V/D/G/LPG/110V/Battery	n/s	2.9	3.2
Maeda	MC305-3	570 lbs @ 39 ft 6 in	47 ft 0 in	12 ft 1 in-41 ft 0 in	1.74	8600	51 in	D/E	85	2.98	3.28
SPYDERCRANE	URW376	280 lbs @ 47.3 ft	58 ft w/ jib	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.93	3.3
SPYDERCRANE	URW376	280 lbs @ 47.3 ft	58 ft w/ jib	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.93	3.3
Jekko	SPX532	220 lbs @ 48 ft	57 ft	8 to 34 ft	1.7	5556 lbs	2 ft 6 in	D+E / E	125	3.2	3.5
JMG	MC32	1030 lbs @ 13in 1 ft	22 ft	11ft /13in 1ft	3	6750	3in 2 ft	E	n/s	3.18	3.5
JMG	MC32	1030 lbs @ 13in 1ft	22 ft	11ft /13in 1ft	3	6750	3in 2ft	E	n/s	3.18	3.5
Broderson	IC-35	1,850 lbs @ 19 ft	33 ft	7 ft 2in - 19 ft 2in	10 mph	7,860 lbs	5 ft	D/Dual Fuel	75	3.6	4
Maeda	MC405-3	500 lbs @ 52 ft 5 in	67 ft 11 in	15 ft 6 in-54 ft 0 in	2.05	12400	55 in	D/E	85	3.84	4.24
Manitex Valla	V40R	990 lbs @ 16 ft	24 ft	90	3.2	8,800 lbs	39 in	Battery	125	4	4.4
Broderson	IC-40	1,850 lbs @ 19 ft	33 ft	7 ft 2in - 19 ft 2in	10 mph	8,920 lbs	5 ft 4 in	D/Dual Fuel	75	4.08	4.5
SPYDERCRANE	URW547	220 lbs @ 58.5	64 ft	13.1 ft -59.1 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	4.04	4.5
SPYDERCRANE	URW547	220 lbs @ 58.5	64 ft	13.1 ft -59.1 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	4.04	4.5
JMG	MC40S	1750 lbs @ 14in 5 ft	23 ft	8ft /14in 5ft	3	10560	3in 11ft	E	n/s	4.5	4.95
JMG	MC45	1750 lbs @ 13in 11 ft	23 ft	8ft /13in 11ft	5	10500	5in 1 ft	E	n/s	4.5	4.95
JMG	MC40S	1750 lbs @ 14in 5ft	23 ft	8ft /14in 5ft	3	10560	3in 11ft	E	n/s	4.5	4.95
JMG	MC45	1750 lbs @ 13in 11ft	23 ft	8ft /13in 11ft	5	10500	5in 1ft	E	n/s	4.5	4.95
Bailey Cranes	Brandon 10	1,000 lb @ 20 ft	29 ft	20 ft	5	10500	5 ft	Battery	75	4.5	5
Jekko	MPK50	1320 lbs @ 20.5 ft	31 ft	9 to 22 ft	6.4	9790 lbs	10 ft 8 in	E	125	5	5.5
Manitex Valla	50	1760 lbs @ 16 ft	25 ft	106	5.6	12120 lbs	55 in	Battery/Diesel	125	5	5.5
Ormig	5.5TME	1660lbs@ 19ft	29.52 ft	12.46/31.16ft	3	15652	5 ft	E	n/s	5.5	6.06
JMG	MC60	2100 lbs @ 18in 1ft	28 ft	1in 8ft /18in 1ft	5	14300	5in 5 ft	E	n/s	6	6.6
JMG	MC60	2100 lbs @ 18in 1ft	28 ft	1in 8ft /18in 1ft	5	14300	5in 5ft	E	n/s	6	6.6
Maeda	CC1485-1	940 lbs @ 52 ft 10 in	72 ft 2 in	15 ft 6 in-53 ft 4 in	1.99	31750	8 ft 2 in	D	75	6	6.61
SPYDERCRANE	URW706	550 lbs @ 61 ft	80 ft w/ jib	15.7 ft - 63 ft	2.5	17,600 - 18,000	64 in	220V/D/110V/Battery	n/s	6.04	6.7
SPYDERCRANE	URW706	550 lbs @ 61 ft	80 ft w/ jib	15.7 ft - 63 ft	2.5	17,600 - 18,300	64 in	220V/D/110V/Battery	n/s	6.04	6.7
Jekko	JF235	518 @ 746"	83 ft	N/A	N/A	22622 lbs	4 ft 5 in	D+E	125	6.1	6.78
Jekko	SPX650	330 lbs @ 65 ft	77 ft	13 to 50 ft	1.8	14,107 lbs	3 ft 4 in	D+E / E	125	5	7.1
Manitex Valla	75	1980 lbs @ 17 ft	26 ft	133	5.6	13450 lbs	68 in	Battery/Diesel	125	7.5	8.25
Jekko	SPX1280	220 lbs @ 66 ft	88 ft	16 to 58 ft	1.7	20629 lbs	4 ft 8.4 in	D+E / E	125	8	8.8
Manitex Valla	V90R	2200 lbs @ 18 ft	30.8 ft	n/s	5.6	16940 lbs	55 in	Battery	125	8	8.8
Bailey Cranes	BC 18	1,950 lbs @ 30 ft	46 ft	34 ft	5	20000	6 ft 6 in	Battery/Hybrid	75	8.16	9
Broderson	IC-80-1	3,800 lbs @ 20 ft	37 ft 5 in	8 ft 2 in - 20 ft 2in	22 mph	16,200 lbs	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	IC-80-2	3,100 lbs @ 24 ft	41 ft	9 ft 5 in - 24 ft	22 mph	16,400 lbs	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	IC-80-3	2,150 lbs@ 30 ft	45 ft 8 in	11 ft 6 in - 30 ft	22 mph	16,750 lbs	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	ICe-80	2,150 lbs@ 30 ft	46 ft 8 in	11 ft 6 in - 30 ft	17 mph	16,400 lbs	6 ft 6 in	Electric	75	8.16	9
Shuttlelift	SC009	1,080 lbs @ 42 ft	48 ft	14.2/33.2 ft	19.2	16900	6 ft 6 in	D & LPG/Gas	n/s	8.1	9
JMG	MC85	3600 lbs @ 15in 8ft	26 ft	1in 8ft /15in 8ft	5	20000	5in 7 ft	E/D	n/s	8.5	9.35
JMG	MC85	3600 lbs @ 15in 8ft	26 ft	1in 8ft /15in 8ft	5	20000	5in 7ft	E/D	n/s	8.5	9.35
Broderson	IC-100-3	1,900 lbs@ 33 ft	49 ft 3 in	13 ft 3 in - 33 ft	22 mph	18,270 lbs	6 ft 6 in	D/Dual Fuel	75	9	10
Ormig	10TM	4519lbs@ 19ft	28 ft	14-31ft	8.56	22928	7 ft	D	n/s	10	11.02
Ormig	10TME	4519lbs@ 19ft	28 ft	14-31ft	6.35	22928	7 ft	E	n/s	10	11.02

## INDUSTRIAL CRANES BY CAPACITY

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/ in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
SPYDERCRANE	URW1006	630 lbs @ 72 ft	104 ft w/ jib	19 ft - 76 ft	2	29,500-30,865	79 in	220V/D/110V/Battery	n/s	10.14	11.2
Manitex Valla	V120R	4180 lbs @ 21 ft	34 ft	n/s	5.6	24,000 lbs	58 in	Battery	125	11	12
JMG	MC110	4400 lbs @ 23in 6ft	35 ft	3in 3ft/23in 6ft	5	29650	6in 5 ft	E/D	n/s	11	12.1
JMG	MC110	4400 lbs @ 23in 6ft	35 ft	3in 3ft/23in 6ft	5	29650	6in 5ft	E/D	n/s	11	12.1
Jekko	JF365	520 @ 8707"	96 ft	49.3 ft	1.5	29073 lbs	5 ft 10.8 in	D+E	125	11.5	12.67
Manitex Valla	120	3970 lbs @ 25 ft	33 ft	159	5.6	30,850	82 in	Battery/Diesel	125	12	13.2
Broderson	IC-200-2	4,200 lbs @ 36 ft	45 ft 4 in	15 ft 2 in - 36 ft 2 in	18 mph	28,500 lbs	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Broderson	IC-200-3	2,600 lbs @ 50 ft	58 ft 8 in	15 ft 6 in - 50 ft 6 in	18 mph	31,080 lbs	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Shuttlelift	SCD15	1,140 lbs @ 61.5 ft	69.5 ft	17/ 50 ft	16	25200	7 ft 10 in	D & LPG/Gas	n/s	13.6	15
Ormig	15IE	5070lbs@23ft	36ft	14-35ft	2.2	28660	6 ft	E	n/s	15	16.53
Franna	AT 15-3	33,000	55.7	59	49	35,300		D		15	17
Jekko	JF545	992 @ 9805"	100 ft	53.3 ft	1.3	32510 lbs	6 ft	D+E	125	15.5	17
Ormig	16TM	5291lbs@22ft	34ft	15-35ft	19.91	31085	7 ft 50 in	D	n/s	16	17.64
Ormig	16TME	5291lbs@22ft	34 ft	15-35ft	7.57	31746	7 ft 50 in	E	n/s	16	17.64
JMG	MC160	6200 lbs @ 24in 7ft	36 ft	3in 3ft/24in 7ft	5	41000	6in 9 ft	E	n/s	16.04	17.65
JMG	MC160	6200 lbs @ 24in 7ft	36 ft	3in 3ft/24in 7ft	5	41000	6in 9ft	E	n/s	16.04	17.65
Broderson	IC-250	3,650 lbs @ 50 ft	87 ft 11 in	15 ft 7 in - 50 ft 1 in	18 mph	37,700 lbs	7 ft 10 in	D/LPG	75	16.3	18
Manitex Valla	180	6600 lbs @ 24 ft	35 ft	176	5	41,850	86 in	Battery/Diesel	125	18	19.8
Broderson	IC-280	1,200 lbs. @ 79 ft	89 ft. 9 in.	18 ft 11 in - 64 ft 4 in	19 mph	41,430 lbs	7 ft 10 in	Diesel	75	18.14	20
Shuttlelift	SCD20	800 lbs @ 76 ft	86 ft	18.5/54.5 ft	21	36600	8 ft 1 in	D & LPG/Gas	n/s	18.1	20
Manitex Valla	V230R	7920 lbs @ 26 ft	38 ft	n/s	5	51700 lbs	78 in	Battery	125	21	23
Jekko	JF990	1796 @ 10406"	113 ft	65.6 ft	1.4	49214 lbs	7 ft	D+E	125	21.5	23.6
Franna	AT 22	48,500	45 ft 5 in	59	49	44,100		D		22	24
JMG	MC220	8200 lbs @ 25in 3ft	38 ft	3in 3ft/25in 3ft	5	50400	7in 3 ft	E	n/s	22.04	24.25
JMG	MC220	8200 lbs @ 25in 3ft	38 ft	3in 3ft/25in 3ft	5	50400	7in 3ft	E	n/s	22.04	24.25
Broderson	IC-400	1,500 lbs @ 88 ft	99 ft	22 ft 9 in - 69 ft	23 mph	55,200 lbs	8 ft 5 1/4 in	Diesel	75	22.7	25
Shuttlelift	SCD25	1,440 lbs @ 84 ft	95 ft	23/70.5 ft	19.4	45700	8 ft 1 in	D	n/s	22.7	25
Franna	MAC 25-4	55,100	60 ft 5 in	60	49	52,700		D		25	27
Manitex Valla	250	4180 lbs @ 33 ft	45 ft	191	5	53,350	90 in	Battery Diesel	125	25	27.5
Ormig	20/25TM	9259lbs@25ft	40 ft	17-40ft	17.09	39683	8 ft 20 in	D	n/s	20/25	27.56
Ormig	25TME	9259lbs@25ft	40ft	17-40ft	6.42	45194	8 ft 20 in	E	n/s	25	27.56
JMG	MC300	10100 lbs @ 27in 8ft	42 ft	3in 3ft/27in 8ft	5	59800	7in 5 ft	E	n/s	30	33
JMG	MC300	10100 lbs @ 27in 8ft	42 ft	3in 3ft/27in 8ft	5	59800	7in 5ft	E	n/s	30	33
Lift Systems	MBL033	20.800 lbs@20.5 ft	33 ft	15-30 ft	1.7	36000	6 ft0 in	D/LPG	0.85	30	33
Lift Systems	MBL033	20.800 lbs@20.5 ft	33 ft	15-30 ft	1.7	36000	6 ft0 in	D/LPG	0.85	30	33
Ormig	33TM	11023lbs@27ft	47 ft	21-45ft	15.53	61729	8 ft 20 in	D	n/s	33	36.8
Ormig	33TME	11023lbs@27ft	47 ft	21-45ft	4.39	63493	8 ft 20 in	E	n/s	33	36.8
Ormig	35IE	11023lbs@26ft	40 ft	16.5-40ft	3.9	40785	6 ft 10 in	E	n/s	35	38.58
Lift Systems	TWL040	24.100 lbs@19 ft	30.5 ft	13-29 ft	1.7	32000	7 ft 3 in	D/LPG	0.85	36	40
Lift Systems	TWL040	24.100 lbs@19 ft	30.5 ft	13-29 ft	1.7	32000	7 ft3 in	D/LPG	0.85	36	40
Franna	AT 40	88,100	65 ft	65	46	65,100		D		40	44
Manitex Valla	400	18070 lbs @ 24 ft	36 ft	223	5	70,550	92 in	Battery	125	40	44
Ormig	40IE	13227lbs@28ft	42 ft	19-43ft	4	46517	7 ft 2 in	E	n/s	40	44
Ormig	45TME	17416lbs@29ft	46ft	20-47ft	3.34	63934	9 ft	E	n/s	45	49.59
JMG	MC450	13900 lbs @ 27in 11ft	40 ft	3in 3ft/27in 11ft	5	70500	7in 6 ft	E	n/s	45.09	49.6
JMG	MC450	13900 lbs @ 27in 11ft	40 ft	3in 3ft/27in 11ft	5	70500	7in 6ft	E	n/s	45.09	49.6
JMG	MC500	14300 lbs @ 30in 5ft	45 ft	3in 3ft/30in 5ft	3	83600	7in 10ft	E	n/s	50.09	55.1
JMG	MC500	14300 lbs @ 30in 5ft	45 ft	3in 3ft/30in 5ft	3	83600	7in 10ft	E	n/s	50.09	55.1
Ormig	50/55TM	19621 lbs@29 ft	46 ft	20-47ft	16.59	63934	8 ft 20 in	D	n/s	50/55	60.63
JMG	MC600	15400 lbs @ 30in 5ft	45 ft	3in 3ft/30in 5ft	3	85800	7in 10 ft	E	n/s	60	66
JMG	MC600	15400 lbs @ 30in 5ft	45 ft	3in 3ft/30in 5ft	3	85800	7in 10ft	E	n/s	60	66
Ormig	55/60IE	19180 lbs@28 ft	42 ft	19-43ft	3.9	52910	7 ft7in	E	n/s	60	66.1
Lift Systems	MBL075	18.800 lbs@35 ft	44 ft	20-44 ft	1.7	49000	7 ft 11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30.200 lbs@22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48000	7 ft 10 in	D/LPG	0.85	68	75
Lift Systems	MBL075	18.800 lbs@35 ft	44 ft	20-44 ft	1.7	49000	7 ft11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30.200 lbs@22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48000	7 ft10 in	D/LPG	0.85	68	75
Ormig	75tm	23148 lbs@34 ft	51 ft	22-54ft	15.9	79366	9ft 9in	D	n/s	75	82.67
Lift Systems	MBL110	29.200 lbs@35 ft	44 ft	21-45 ft	1.7	70000	8 ft6 in	D/LPG	0.85	100	110



## INDUSTRIAL CRANES BY CAPACITY

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Lift Systems	TWL110	38,900 lbs@ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	MBL110	29,200 lbs@ 35 ft	44 ft	21-45 ft	1.7	70000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	TWL110	38,900 lbs@ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70000	8 ft 6 in	D/LPG	0.85	100	110
Manitex Valla	V1100R	30800 lbs @ 37 ft	55 ft	n/s	5	n/a	95 in	Battery	125	100	110
Ormig	100IE	23810 lbs@ 29 ft	44 ft	19-46ft	2,8	58423	8 ft 0.5in	E	n/s	100	110.2

## RUBBER TIRED GANTRY CRANES BY MANUFACTURER

Manufacturer	Model	Standard Inside Clear Height/ Hook Height (ft)	Standard Inside Clear Width/ Hook Height (ft)	Number of tires	Remote control capability Y/N	Steering mode	Driving speed (mph)	Capacity (US tons)
Enerpac	Travel Gantry ETL600	20	30 x 15	4	Y	Carrousel	3	67
Mi-Jack Monobeam	MB50	customizable	customizable	4	Y remote control only	All-wheel	3.5MPH	50
Mi-Jack Translift	MJ 1200R	customizable	customizable	4	Y	Two Wheel	4MPH	50
Mi-Jack Translift	MJ 1200R EH	customizable	customizable	4	Y	Two Wheel	4MPH	50
Mi-Jack Translift	MJ 1400C-RTG	customizable	customizable	Y	All-wheel	4.5MPH	45	
Mi-Jack Translift	MJ 1400P	customizable	customizable	8 or 16	Y	All-wheel	5MPH	45
Mi-Jack Travelift	MJ 30 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4-5MPH	30
Mi-Jack Travelift	MJ 40 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4-5MPH	40
Mi-Jack Travelift	MJ 50 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4MPH	50
Mi-Jack Travelift	MJ 70 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4 MPH	70
Mi-Jack Travelift	MJ 85 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4 MPH	85
Mi-Jack Travelift	MJ 100 HD	customizable	customizable	4 or 8	Y	Two Wheel, Lead wheel optional	3MPH	100
Mi-Jack Travelift	MJ150 HD	customizable	customizable	8	Y	two corner, four corner optional.	3MPH	150
Mi-Jack Travelift	MJ200HD-300HD	customizable	customizable	Y	various	various	200-300	
Mi-Jack Travelift	MJ50C	customizable	n/s	4	Y	Two Wheel, Lead wheel optional	4-5MPH	44.1 under spreader
Shuttlelift	SB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	DB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	SL 35II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		35
Shuttlelift	SB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	DB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	SL 50II	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	SB 70	25 (customizable)	30 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	SL 75II	22 (customizable)	21 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		75
Shuttlelift	SL 85II	25 (customizable)	24 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		85
Shuttlelift	DB 90	30 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		90
Shuttlelift	DB 110	30 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		110
Shuttlelift	SB 120	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		120
Shuttlelift	SB 150	40 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	SL 150II	30 (customizable)	28 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	DB 165	35 (customizable)	40 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		165
Shuttlelift	DB 200	40 (customizable)	50 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 200II	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 250II	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		250
Shuttlelift	SL 300	34 (customizable)	32 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		300
Shuttlelift	SL 500	40 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		500
Shuttlelift	SL 620	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		620
Shuttlelift	SL 700	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		700
Shuttlelift	SL 820	50 (customizable)	48 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		820
Shuttlelift	SL 25II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		25
Shuttlelift	DB 70	25 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	SL 100II	28 (customizable)	26 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	SB 100	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	SL 400	37 (customizable)	35 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		400
Shuttlelift	SL 1000	55 (customizable)	55 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		1,000
Shuttlelift	SL 1250	55 (customizable)	55 (customizable)	16	Yes	All wheel		1,250

**RUBBER TIRED GANTRY CRANES** BY CAPACITY

Manufacturer	Model	Standard Inside	Standard Inside	Number of tires	Remote control capability	Steering mode	Driving speed (mph)	Capacity (US tons)
		Clear Height/ Hook Height (ft)	Clear Width/ Hook Height (ft)		Y/N			
Shuttlelift	SL 25II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		25
Mi-Jack Travelift	MJ 30 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4-5MPH	30
Shuttlelift	SB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	DB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	SL 35II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		35
Mi-Jack Travelift	MJ 40 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4-5MPH	40
Mi-Jack Translift	MJ 1400C-RTG	customizable	customizable	16	Y	All-wheel	4.5MPH	45
Mi-Jack Translift	MJ 1400P	customizable	customizable	8 or 16	Y	All-wheel	5MPH	45
Mi-Jack Monobeam	MB50	customizable	customizable	4	Y, remote control only	All-wheel	3.5MPH	50
Mi-Jack Translift	MJ 1200R	customizable	customizable	4	Y	Two Wheel	4MPH	50
Mi-Jack Translift	MJ 1200R EH	customizable	customizable	4	Y	Two Wheel	4MPH	50
Mi-Jack Travelift	MJ 50 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4MPH	50
Shuttlelift	SB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	DB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	SL 50II	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Enerpac	Travel Gantry ETL600	20	30 x 15	4	Y	Carrousel	3	67
Mi-Jack Travelift	MJ 70 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4 MPH	70
Shuttlelift	SB 70	25 (customizable)	30 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	DB 70	25 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	SL 75II	22 (customizable)	21 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		75
Mi-Jack Travelift	MJ 85 HD	customizable	customizable	4	Y	Two Wheel, Lead wheel optional	4 MPH	85
Shuttlelift	SL 85II	25 (customizable)	24 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		85
Shuttlelift	DB 90	30 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		90
Mi-Jack Travelift	MJ 100 HD	customizable	customizable	4 or 8	Y	Two Wheel, Lead wheel optional	3MPH	100
Shuttlelift	SL 100II	28 (customizable)	26 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	SB 100	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	DB 110	30 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		110
Shuttlelift	SB 120	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		120
Mi-Jack Travelift	MJ150 HD	customizable	customizable	8	Y	two corner; four corner optional.	3MPH	150
Shuttlelift	SB 150	40 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	SL 150II	30 (customizable)	28 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	DB 165	35 (customizable)	40 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		165
Shuttlelift	DB 200	40 (customizable)	50 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 200II	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 250II	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		250
Shuttlelift	SL 300	34 (customizable)	32 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		300
Shuttlelift	SL 400	37 (customizable)	35 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		400
Shuttlelift	SL 500	40 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		500
Shuttlelift	SL 620	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		620
Shuttlelift	SL 700	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		700
Shuttlelift	SL 820	50 (customizable)	48 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		820
Shuttlelift	SL 1000	55 (customizable)	55 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		1,000
Shuttlelift	SL 1250	55 (customizable)	55 (customizable)	16	Yes	All wheel		1,250
Mi-Jack Travelift	MJ200HD-300HD	customizable	customizable	Y	various	various	200-300	
Mi-Jack Travelift	MJ50C	customizable	n/s	4	Y	Two Wheel, Lead wheel optional	4-5MPH	44.1 under spreader

## ASPEN CUSTOM TRAILERS

3914 81 Avenue  
Leduc, Alberta, Canada T9E 0C3  
(780) 980-1925  
Phil Johnston, President  
**www.aspentrailer.com**  
*Produces 25-ton tandem trailers to 300-ton mining and multi-axle steering transporters.*

## ACCESS WORLD LOGISTICS

7 Moonglade Lane  
Savannah, GA 31411  
(912) 352-4248  
Butch Howard, Sales & Marketing  
**www.AWLcorp.com**  
*Offers rigging and transport logistics services including engineering, lifting and machinery assembly and disassembly.*

## BUCKINGHAM STRUCTURAL MOVING EQUIPMENT

10 Birch Lane  
Bernville, PA 19506  
610-488-8969  
Kendal Siegrist, Sales Manager  
**www.buckinghamequipment.com**  
*Buckingham produces transport and lifting equipment including power, coaster and crab steer dollies.*

## COMETTO

Via Cuneo 20, 12011 Borgo  
San Dalmazzo, Italy  
+39 0171 26 33 00  
Matthew Schattgen, Sales  
**www.cometto.com**  
*Cometto is the worldwide specialist for the development and manufacturing of self-propelled modular transporters for payloads up to 25,000 tons and beyond.*

## DURABILT BY DURBIN

2545 South 25th Ave  
Broadview, IL 60155  
(708) 223-0258  
Thomas Durbin, President  
**www.durabiltusa.com**  
*Manufacturer of load lashing and securement systems for specialized transport cargo control and material handling products.*

## ETNYRE INTERNATIONAL

1333 S. Daysville Road  
Oregon, IL 61061  
(815) 732-2116  
Kevin Sassaman, Product Manager  
**www.etnyre.com**  
*Etnyre manufactures a full line of custom lowboy trailers from 35 tons to 100 tons in several axle configurations, and uses the latest technologies such as 3D modeling, CNC burn tables, lasers and robotic welders to build custom trailers.*

## EAGER BEAVER TRAILERS

14893 US-27  
Lake Wales, FL 33859  
(800) 257-8163

Tina Flowers, National Sales Manager  
**www.EBTrailers.com**  
*Manufactures lowbed and equipment hauling semitrailers from 6 to 100-ton capacities. Eager Beaver Trailers is a registered brand name of General Engines Company.*

## ELK RIVER MACHINE COMPANY

828 Fourth Street  
Elk River, MN 55330  
(763) 441-1581  
Paul Gill, Sales Director  
**www.ermc.com**  
*Elk River produces 2 to 9-axle Hydra-Steer trailers, jeeps and specialty trailers used to haul concrete beams and materials.*

## ENERPAC

N86W12500 Westbrook Crossing  
Menomonee Falls, WI 53051  
(262) 293-1600  
Peter Crisci, Product Line Director  
Heavy Lifting Technology  
**www.enerpac.com**  
*Enerpac produces hydraulic gantries, strand jacks, SPMTs, skidding systems and high pressure hydraulic tools and equipment.*

## ENGINEERED RIGGING

409 East Lincolnway, Suite 3  
Valparaiso, IN 46383  
(219) 712-4579  
Christopher E. Cox, President  
**www.engineeredrigging.com**  
*Engineered Rigging provides engineering services, designs and builds custom heavy lifting systems and provides equipment rentals and sales including gantries, SPMTs, sling adjusters, cube jacks, power slide systems and more. ER is an authorized Enerpac dealer.*

## ENGINEERED TRANSPORTATION INTL.

1145 Congress Parkway North  
Athens, TN 37303  
(423) 499-1300  
Jake Radish, Chief Commercial Officer  
**www.EnTransInternational.com**  
*Within its oil, gas, tank trailer, and heavy haul trailer transport divisions, Engineered Transportation International is fortified with substantial reserves of knowledge, a proficient workforce, ample resources and a pervasive global reach.*

## FAGIOLI, INC.

21310 Highway 6  
Manvel, TX 77578  
(281) 997-3434  
Edoardo Ascione, President  
**www.fagioligroup.com**  
*A leading provider for super heavy lifting, transportation and logistics markets around the world.*

## FAYMONVILLE DISTRIBUTION

Z.A.E.R. Op der Sang,  
Op der Bréimicht 16, 9779

Lentzweiler, Luxembourg  
+352 26 90 04 155  
Paul Hönen, Sales  
**www.faymonville.us**  
*Faymonville manufactures trailers for heavy-duty haulage and oversized cargo transportation. The full product range encloses telescopic and steerable trailers, double drop trailers, dual lane trailers and modular trailers.*

## FONTAINE SPECIALIZED

5398 US Highway 11  
Springville, AL 35146  
(205) 467-1826  
Greg D Smith, VP Marketing  
& Business Development  
**www.fontainespecialized.com**  
*Fontaine Specialized is focused on serving construction and specialized hauling customers requiring dependable lowbed, extendable, and hydraulic tail trailers.*

## GEM STATE MFG./TRAILMAX

3820 Skyway Street  
Caldwell, ID 83605  
(208) 454-0717  
Mike Lemrick, President/Owner  
**www.trailmax.com**  
*Gem State offers seven different series of trailers: utility, tiltbed, beavertail, power ramp, hydraulic ramp, traveling axle and flatbeds.*

## GOLDHOFFER

7401 Riviera Boulevard  
Miramar, FL 33023  
(954) 433-5617  
Gerald Rothwell, Director of Sales, North America  
**www.goldhofer.us**  
*Goldhofer is a leading global manufacturer of specialized transportation equipment in the field of general and heavy-duty road haulage and oversized cargo transportation.*

## GREENFIELD PRODUCTS

3111 West 167th Street  
Hazel Crest, IL 60429  
(708) 331-3115  
Josh Meyers, Sales Manager  
**www.greenfieldpi.com**  
*A top provider of steel crane mats, counter-weight trailers and all types of below-the-hook material handling equipment, Greenfield Products has bolstered their equipment line with the addition of the Roborigger load orientation device and a line of custom AGV's & SPMT's.*

## HMR SUPPLIES

35545 Hwy 69  
Forest City, IA 50436  
(641) 585-3630  
Chris Holland, President  
**www.hmrsupplies.com**  
*HMR Supplies designs and manufactures high-capacity heavy*

*material transport equipment. The company designs and executes plans to handle and transport large items safely and cost effectively.*

## KALYN/SIEBERT

1505 West Main Street  
Gatesville, TX 76528  
(254) 865-7235  
Jeff Conner, Director of National Sales  
**www.kalynsiebert.com**  
*A subsidiary of Heil Trailer International, produces heavy haul, wind energy, construction, towing and oilfield trailers.*

## KAMAG TRANSPORTTECHNIK

Liststrasse 3 Ulm 89079  
Germany 49 (0) 731/ 4098 - 0  
Roland Fischer, Area Manager, Sales  
**www.kamag.com**  
*Reliability in daily operations and a long service life make KAMAG an important element of modern logistical processes. In a wide range of areas such as smelting works and steel mills, shipyards and off-shore technology, transport vehicles from the company are in daily use.*

## KITCHEN'S CRANE & EQUIPMENT

7913 Dunnottar Ct.  
Chesterfield, VA 23838  
(804) 814-4844  
Eddy Kitchen, Owner  
**www.kitchensequipment.com**  
*Kitchen's is a leading source for cranes, hydraulic platform trailers, slide systems, strand jacks, hydraulic gantries, rigging lifts and jack up systems.*

## KTSDI-KESSLER

801 E Middletown Road  
North Lima, OH 44452  
(330) 783-2000  
Ken Timmings, Manager  
**www.ktsdi.com**  
*KTSDI is an ISO 9001:2015 certified company as well as the North American representative and authorized spare parts and service provider for Kessler + Co, Mobil Elektronik, Alfred Heyd and Neumeister.*

## K-LINE TRAILERS

27360 - 58th Crescent  
Langley BC V4W 3W7 Canada  
(604) 856-7899  
David Knight, President  
**www.klinetrailers.com**  
*K-Line designs and builds on and off road specialized dump bodies, lowbeds, and heavy haul trailers that serve over dimensional and specialized markets.*

## LAMPSON INTERNATIONAL

607 E. Columbia Drive  
Kennewick, WA 99336  
(509) 586-0411



William Lampson, President & CEO  
**www.lampsoncrane.com**  
*Lampson International is a single source for all heavy lift and transport needs from conventional crane rentals, to heavy lift and transport engineering, to the provision and engineering of extreme capacity lift and transport equipment.*

**LANDOLL COMPANY**  
 1900 North Street  
 Marysville, KS 66508  
 (785) 562-5381  
 Jim Ladner, Sales Manager  
**www.landoll.com**  
*Landoll provides traveling axle and detachable trailers for commercial, industrial, military and government to ground load specialized equipment.*

**LOADCRAFT INDUSTRIES**  
 P O Box 1429  
 Brady, TX 76825  
 (325) 597-2911  
 Terry McIver, President  
**www.loadcraft.com**  
*Loadcraft Industries specializes in the complete design and manufacturing of drilling and working rigs, as well as specialized transport trailers, dollies, beams and multi-axle components.*

**LOAD KING**  
 7701 Independence Ave  
 Kansas City, MO 64125  
 (816) 241-4888  
 John Lukow, Senior VP, Cranes  
**www.loadkingmfg.com**  
*As a key part of the Custom Truck One Source family of brands, Load King offers standard and custom trailers, vocational equipment, and a full line of boom trucks and truck cranes.*

**MAMMOET USA, SOUTH**  
 20525 FM 521  
 Rosharon, TX 77583  
 (281) 369-2200  
 John Halfweg, President Americas  
**www.mammoet.com**  
*Mammoet improves construction efficiency by providing solutions for lifting, transporting, installing and decommissioning large and heavy structures.*

**MSA DELIVERY**  
 4290 Hannan Road  
 Canton, MI 48188  
 734 397-7770  
 Jerry Rozum, President  
**www.msadelivery.com**  
*MSA Delivery provides transportation solutions for all specialized transportation needs within the U.S., Canada and Mexico.*

**NELSON MANUFACTURING**  
 6448 State Route 224  
 Ottawa, OH 45875

(419) 523-5321  
 Tony Niese, President  
**www.nelsontrailers.com**  
*Nelson Manufacturing specializes in the design and manufacturing of customized transport solutions for the crane, rigging, construction, heavy haul, over size and aerospace markets.*

**RIDEWELL SUSPENSIONS**  
 P.O. Box 4586  
 Springfield, MO 65808  
 (800) 641-4122  
 Darin Bridges, VP Sales & Marketing  
**www.ridewellcorp.com**  
*Ridewell Suspensions engineers and manufactures custom suspension systems for the specialized transport industry.*

**RIGGING GEAR SALES**  
 1555 IL Route 26 South  
 Dixon, IL 61021  
 (815) 288-6403  
 Benjamin Forster, General Manager  
**www.rgsinc.net**  
*Rigging Gear Sales produces hydraulic gantries, mobile pick and carry machines and is a distributor of TII trailers and transport systems.*

**ROGERS BROTHERS CORP.**  
 100 Orchard Street  
 Albion, PA 16401-1218  
 (814) 756-4121  
 Jay Kulyk, President  
**www.rogerstrailers.com**  
*Rogers Trailers produces custom and specialized trailers for hauling cranes, construction equipment and construction materials.*

**TII KAMAG**  
 Liststrasse 3 89079 Ulm, Germany  
 33 (0) 386 53 52-00  
**www.tii-group.com**  
*A part of the TII Group of Companies, TII KAMAG produces solutions for internal transport operations including swap body transporters, terminal tractors, industry transporters and customized solutions.*

**TII SCHEUERLE  
 FAHRZEUGFABRIK GMBH**  
 Otto-Rettenmaier-Str. 15 Pfedelbach  
 74629 Germany  
 49 7941 691 2999  
**www.tii-group.com**  
*A part of the TII Group of Companies, TII Scheuerle develops and produces heavy load transport solutions for on and off-road, including low-bed semi-trailers, heavy-duty modules, SPMTs, shipyard transporters and winds systems.*

**TALBERT MANUFACTURING**  
 1628 W. State Road 114  
 Rensselaer, IN 47978  
 (800) 348-5232  
 Troy Geisler, VP Sales & Marketing  
**www.talbertmfg.com**

*Talbert offers complete lines of heavy-haul trailers and specialized transportation equipment for commercial, industrial, military and government sectors.*

**TEMISKO 1983 INC.**  
 91 Ontario Street  
 Notre-Dame du Nord QC J0Z 3B0  
 Canada  
 (819) 723-2416  
**www.temisko.com**  
*Temisko produces a full line of optimized hauling solutions for the specialized hauling sector.*

**THRUWAY SPECIALIZED TRAILERS**  
 1170 Fewster Dr. Mississauga  
 ON. L4W 1A1 Canada  
 (905) 219 0080  
 Saifu Mawji, General Manager  
**www.thruwaytrailers.com**  
*ThruWay Trailers produces a variety of multi-axle flatbeds, step-decks, multi-axle Trombones (Stretch Trailers) Patented Deep Coil-Well trailers; wind turbine Blade trailers and wind-turbine tower Schnabels.*

**TRADELOSSA**  
 Cobalto #6 Colonia Industrial  
 Durango, Durango,  
 34229, Mexico  
 (713) 931-6552  
 Armando Lee,  
 Sales & Logistics Manager  
**www.tradelossa.com**  
*Tradelossa is a transport solutions specialist for large and heavy loads, rigging, logistics services, permitting, warehousing services and operations at the border between Mexico and the United States in addition to trucking operations coming from Central America, Mexico and the U.S. and vice versa.*

**TRAIL KING INDUSTRIES**  
 300 East Norway Avenue  
 Mitchell, SD 57301, (800) 843-3324  
 Mike Heschke, Dir. of International Market Development  
**www.trailking.com**  
*Trail King manufactures trailers ranging in capacities from 12,000 to 1,000,000 pounds for the construction, agriculture, transportation, waste and recycling and specialized hauling markets.*

**TRAIL-EZE TRAILERS**  
 323 Quince Street,

Mitchell, SD 57301  
 (605) 996-5571  
 Shawn Murtha,  
 Director of Sales and Marketing  
**www.trileze.com**  
*TRAIL-EZE custom designs and manufactures low boy trailers, multi axle low boy trailers, rear loading HT and slide axle trailers.*

**TRANSMASTER TRAILERS**  
 20 Wolfbridge Road,  
 Carlisle, PA 17013 888-611-3570  
 Ray Diemer, Heavy Haul Trailer Sales  
**www.transmastertrailers.com**  
*TransMaster Trailers offers specialized multi-axle steering dollies, expanding perimeters, extendables, high-capacity steering trailers, jeeps, heavy-duty step-decks, detachable gooseneck lowboys, beam systems, and much more*

**TRANSWORLD MANUFACTURING**  
 6109 Dean Martin Drive  
 Las Vegas, NV 89118  
 (702) 798-8920  
**www.transworldmanufacturing.com**  
 Crystal Dieleman, President  
*TransWorld produces boom dollies, specialized crane transport systems, counterweight trailers, jeeps and tag axles.*

**TPSE – TRANSPORT  
 PRODUCTS AND SERVICE  
 ENTERPRISES, INC.**  
 3101 Oxbow Circle  
 Cocoa, FL 32926  
 (321) 631-3802  
 Toni Sabia, President  
**www.tpseinc.com**  
*TPSE, is a certified woman owned business that offers heavy lift transporters and SPMTs from TII SCHEUERLE, TII KAMAG and material transporters from MOUVERS. TPSE also offers spare parts, accessories, service, technical support and training.*

**XL SPECIALIZED  
 TRAILERS**  
 P.O. Box 400  
 Manchester, IA 52057  
 (563) 927-4900  
 Tom Hiatt, Senior Director of Sales  
 Shane Michelson, Director of Sales  
**www.xlspecializedtrailer.com**  
*Manufacturers of specialized heavy haul trailers for the construction, commercial, agriculture, wind, oil and gas and custom trailer markets.*

## Disclaimer:

While every effort was made to assure the accuracy and comprehensiveness of this list, the ACT Sourcebook is not responsible for errors or omissions.

E-mail D. Ann Shiffler at [d.ann.shiffler@khl.com](mailto:d.ann.shiffler@khl.com) or Hannah Sundermeyer at [hannah.sundermeyer@khl.com](mailto:hannah.sundermeyer@khl.com) for an ACT Sourcebook Survey Form.

# SAVE THE DATE IN 2024!



# JBCM

## January Board & Committee Meetings

January 7 - 10  
Hacienda Del Mar Cabos  
Cabo, Mexico



# STS

## Specialized Transportation Symposium

February 20 - 22  
Westin Galleria Houston  
Houston, TX



# AC

## Annual Conference

April 15 - 19  
Omni Barton Creek  
Austin, TX

# CRW

## Crane & Rigging Workshop

September 24 - 26  
Renaissance Phoenix Glendale Hotel  
Glendale, AZ



[WWW.SCRANET.ORG](http://WWW.SCRANET.ORG)





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## ASSOCIATIONS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>American National Standards Institute Inc. (ANSI)</b>	25 West 43rd Street, New York, NY 10036	USA	(212) 642-4946	www.ansi.org	Joe Bhatia President/CEO
<b>American Rental Association</b>	1900 19th Street, Moline, IL 61265	USA	(800) 334-2177	www.ararental.org	Chris Wehrman CEO
<b>American Wind Energy Association</b>	1501 M St. NW, Suite 1000 Washington, DC 20005	USA	(202) 383-2500	www.cleanpower.org	Tom Kiernan CEO
<b>Associated Equipment Distributors</b>	600 W. 22nd Street Suite 220 Oak Brook, IL 60523	USA	(630) 574-0650	www.aednet.org	David Gordon VP of Sales
<b>Associated General Contractors</b>	2300 Wilson Blvd, Ste 400 Arlington, VA 22201	USA	(703) 548-3118	www.agc.org	Stephen Sandher CEO
<b>Associated Wire Rope Fabricators</b>	P O Box 748 Walled Lake, MI 48390	USA	(248) 994-7753	www.awrf.org	Jeff Gilbert Chief Executive
<b>Association of Crane &amp; Rigging Professionals (ACRP)</b>	28175 Haggerty Novi, MI 48377	USA	(800) 690-3921	www.acrp.net	Jeff Gilbert Executive Director
<b>Association of Equipment Manufacturers</b>	6737 West Washington Street, Milwaukee, WI 53214	USA	(414) 272-0943	www.aem.org	Dennis Slater President
<b>BC Association for Crane Safety</b>	PO Box 48883 Bentall Vancouver, BC V7X 1A8	Canada	(604) 336-4699	www.bccranesafety.ca	Fraser Cocks Executive Director
<b>Canadian Construction Association</b>	1900 - 275 Slater St. Ottawa, ON K1P 5H9	Canada	(613) 236-9455	www.cca-acc.com	Michael Atkinson President
<b>Crane Certification Association of America</b>	28175 Haggerty Novi, MI 48377	USA	(800) 447-3402	www.ccaaweb.net	Jeff Gilbert Executive Director
<b>Crane Owners Association</b>	447 Georgia Street Vallejo, CA 94590	USA	(707) 552-6040	www.craneowners.org	Michael Vlaming Executive Director
<b>Crane Rental Association of Canada</b>	P O Box 26 Regina, SK S4P 2Z5	Canada	(306) 585-2722	www.crac-aclg.ca	Claire Bélanger-Parker Executive Administrator
<b>Florida Crane Owners' Council, Inc.</b>	170 North Goldenrod Road Orlando, FL 32807	USA	(512) 633-7413	www.flcoc.com	John Wessel Managing Director
<b>Ironworker Management Progressive Action Cooperative Trust (IMPACT)</b>	1750 New York Ave. NW, 4th Floor, Washington, DC 20006	USA	(800) 545-4921	www.impact-net.org	Kevin Hilton CEO
<b>National Commission for the Certification of Crane Operators (NCCCO)</b>	2750 Prosperity Avenue, Suite 505, Fairfax, VA 22031	USA	(703) 560-2391	www.nccco.org	Thom Sicklesteele Chief Executive Officer
<b>Specialized Carriers &amp; Riggers Association (SC&amp;RA)</b>	5870 Trinity Pkwy., Suite 200, Centreville, VA 20120	USA	(703) 698-0291	www.scranet.org	Joel Dandrea Chief Executive Officer
<b>Steel Erectors Association of America</b>	Piedmont Leaf Lofts 401 E. 4th St., #204 Winston-Salem, NC 27101	USA	(336) 294-8880	www.seaa.net	Tom Underhill Executive Director

## AUCTIONS/USED CRANE SALES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Alex Lyon &amp; Son</b>	7697 Rt. 31 Bridgeport, NY 13030	USA	(315) 633-2944	www.lyonauction.com	Jack Lyon President
<b>American Auctioneers</b>	1033 W. Main St. Centre, AL 35960	USA	(256) 927-5263	www.american-auctioneers.com	Keith Baldwin President
<b>Bar None Auction</b>	2440 Gold River Road, Suite 200, Rancho Cordova, CA 95670	USA	(866) 372-1700	www.barnoneauction.com	Brian Wahlster General Manager
<b>Berryhill Auctioneers</b>	3901 Dendron Drive Flower Mound, TX 75028	USA	(972) 874-1222	www.berryhillauctioneers.com	Ray Berryhill Owner
<b>Bunch Bros Auctioneers</b>	P O Box 175 Wingo, KY 42088	USA	(270) 376-2992	www.bunchbrothers.com	Steve Bunch
<b>Crane Network</b>	400 E. Illinois Street, Suite B Lemont, IL 60439	USA	(214) 612-7626	www.cranenetwork.com	Ron Selby Chief Operating Officer
<b>Darell Dunkle Auctioneers</b>	P O Box 959, Harrison, MI 48625	USA	(800) 433-6670	www.dunkleauctioneers.com	Darell Dunkle Owner
<b>Deanco Auction</b>	1042 Holland Avenue, Philadelphia, MS 39350	USA	(601) 656-9768	www.deancoauction.com	Donnie W. Dean Owner/President/ Auctioneer
<b>GoIndustry DoveBid</b>	1900 O'Farrell, Ste 325 San Mateo, CA 94403	USA	(800) 665-1042	www.go-dove.com	Thomas Burton Executive Vice President
<b>DSA Don Smock Auction Company</b>	6531 S State Road 13 Pendleton, IN 46064	USA	(765) 778-9277	www.dsaauctions.com	Donald Smock CEO

<b>Henderson Auctions</b>	13340 Florida Blvd Livingston, LA 70754	USA	(225) 686-2252	www.hendersonauctions.com	Jeffrey Henderson President/CEO
<b>Hilpipe Auctions</b>	2862 Wagner Road Waterloo, IA 50703	USA	(319) 235-6007	www.hilpipe.com	Craig Hilpipe President
<b>Hunyady Auction Services</b>	1440 Cowpath Road Hatfield, PA 19440	USA	(215) 361-9099	www.hunyady.com	Mike Hunyady President
<b>I.R.A.Y. Auction</b>	11935 Hwy 95 NE Foley, MN 56329	USA	(320) 968-7230	www.iraymn.com	Ray Henry Owner
<b>J J Kane Auctioneers</b>	1000 Lenola Road Maple Shade, NJ 8052	USA	(855) 462-5263	www.jjkane.com	Bob Kane Operations
<b>J M Wood Auction Company</b>	3475 Ashley Road Montgomery, AL 36108	USA	(334) 264-3265	www.jmwood.com	Brenda Wood President
<b>Lloyd Meekins &amp; Sons</b>	4070 NC Hwy 211 East Lumberton, NC 28358	USA	(910) 738-1389	www.meekinsauktion.com	
<b>Jeff Martin Auctioneers</b>	2236 Hwy 49 Brooklyn, MS 39425	USA	(601) 450-6200	www.jeffmartinauctioneers.com	Jeff Martin Owner
<b>Martin Auction Services</b>	9515 Texas Church Road Clinton, IL 61727	USA	(217) 935-3245	www.martinauction.com	Rob Nord Owner
<b>Musser Bros Auctioneers</b>	3035 Rickenbacker Drive Pasco, WA 99301	USA	(509) 416-6060	www.mbauction.com	Scott Musser Vice President
<b>Myron Bowling Auctioneers</b>	3901 Kraus Lane Hamilton, OH 45014	USA	(513) 738-3311	www.myronbowling.com	Greg Hengehold Managing Partner
<b>Pro Team Auction Company</b>	1715 Garden Village Dr, Ste A, White Pine, TN 37890	USA	(865) 674-7002	www.proteamauction.com	Alice Webb Marketing Director
<b>Purple Wave Auction</b>	825 Levee Drive Manhattan, KS 66502	USA	(785) 537-7653	www.purplewave.com	Aaron McKee Founder
<b>Ritchie Bros. Auctioneers</b>	9500 Glenlyon Parkway Burnaby, BC V5J 0C6	Canada	(778) 331-5500	www.rbauktions.com	Ann Fandozzi CEO
<b>Sullivan Auctioneers</b>	1066 E US Hwy 136 Hamilton, IL 62341-0111	USA	(217) 847-2160	www.sullivanauktioneers.com	Dan Sullivan Owner
<b>Thompson Auctioneers</b>	3519 State Route 235 Fairborn, OH 45325	USA	(937) 426-8446	www.thompsonauktioneers.com	Steve Thompson Owner
<b>Vocon Auctions</b>	4747 NE 14th Street Des Moines, IA 50313	USA	(866) 218-6266	www.govocon.com	Kelly Housby and Kevin Housby Partners
<b>West Auctions</b>	P O Box 278 Woodland, CA 95776	USA	(530) 661-0490	www.westauction.com	Donna Bradshaw President
<b>Yoder &amp; Frey Auctioneers</b>	1670 Commerce Holland, OH 43528	USA	(419) 865-3990	www.yoderandfrey.com	V. Peter Clark President

## CONTROL DEVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Adeunis NA</b>	65 Pondfield Rd., Suite 14 Bronxville, NY 10708	USA	(914) 337-2167	www.vokkero.com	Frank Fischer Director of Marketing/ Communications
<b>Cattron Group International</b>	58 West Shenango Sharpsville, PA 16150	USA	(724) 962-2630	www.cattron.com	Mandy Bailey Marketing Assistant
<b>Cervis Inc.</b>	140 Thorn Hill Road Warrendale, PA 15086	USA	(724) 741-9000	www.cervisinc.com	Kevin Hadley Sales Manager
<b>Control Chief Wireless Solutions</b>	200 Williams Street Bradford, PA 16701	USA	(814) 362-6811	www.controlchief.com	Allison Ambrose Marketing
<b>Custom Controls Inc.</b>	#106 30468 Great Northern Ave, Abbotsford, BC V2T 6H4	Canada	(604) 854-3000	www.customcontrolsinc.com	Jeff Creamer Sales Manager
<b>Eaton Wireless</b>	74-1833 Coast Meridian Rd Port Coquitlam, BC V3C 6G5	Canada	(604) 944-9247	www.eaton.com	Nigel Evans Product Manager
<b>Flodraulics</b>	3539 N County Road 700 W, Greenfield, IN 46140	USA	(317) 890-3700	www.flodraulics.com	Tyler Ellis Marketing Manager
<b>HBC-radiomatic</b>	1017 Petersburg Road Hebron, KY 41048	USA	(800) 410-4562	www.hbc-usa.com	Jeff Allan CEO
<b>Hetronic USA</b>	4300 Highline Blvd Building A Oklahoma City, OK 73108	USA	(405) 946-3574	www.hetronic.com	Tom Devonshire National Sales Manager
<b>Intercomp</b>	3839 County Road 116 Medina, MN 55340	USA	(763) 476-2531	www.intercompcompany.com	Mike Tetzlaff Industrial Sales
<b>JR Merritt Controls</b>	55 Sperry Avenue Stratford, CT 06615	USA	(203) 381-0100	www.jrmerritt.com	Doug Mackay Sales

## CONTROL DEVICES continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Kar-Tech</b>	111 Enterprise Road Delafield, WI 53018	USA	(262) 646-9444 x234	www.kar-tech.com	John Karbassi Vice President, Operations
<b>Laird Technologies</b>	3481 Rider Trail South Earth City, MO 63045	USA	(636) 898-6000 x1186215	www.lairdtech.com	Jannette Avila Communications and Marketing Manager
<b>Loadwise International</b>	50 Woolmer Way Bordon, Hampshire GU35 9QF	UK	+44 (0)1420 476500	www.loadwise.co.uk	Ken Grant General Manager
<b>Magnetek</b>	N49 W 13650I Campbell Drive, Menomonee Falls, WI 53051	USA	(262) 783-3500	www.columbusmckinnon.com	Lynn Bostrom Marketing
<b>McKee Communications</b>	6381 A Rose Lane Carpinteria, CA 93013	USA	(800) 321-4138	www.mckeeusa.com	Peter McKee President
<b>Microtronics</b>	2270 Highway 54 Iola, KS 66749	USA	(620) 365-8264	www.micro-tronics.com	Steve Cunningham Director of Sales/ Marketing
<b>Mobile Control Systems</b>	1229 Commonwealth Marietta, GA 30064	USA	(678) 581-9613	www.mobilecontrolsystems.com	Bob Kompar President
<b>NBB Controls</b>	1572 East Parham Road Richmond, VA 23228	USA	(804) 262-4846	www.nbbcontrols.com	Frank Capetta Vice President
<b>OEM Controls</b>	10 Controls Drive Shelton, CT 06484	USA	(203) 929-8431	www.oemcontrols.com	Ken Fried Sales and Marketing
<b>Orlaco Products B.V. North America</b>	33 Confederate Avenue Jasper, GA 30147	USA	(706) 301-9227	www.orlaco.com	Peter Dove Sr. Account Manager
<b>Robinson Engineering Company</b>	1914 Silver Street Garland, TX 75042	USA	(972) 272-2001	www.craneboss.com	Jerry Schuman Sales and Marketing Manager
<b>Scanreco</b>	4900 Parkway Drive, Suite 190, Mason, OH 45040	USA	(855) 658-0732	www.scanreco.com	Jason Looman President
<b>Trimble Lifting Solutions</b>	32 West Thebarton Road Thebarton South Australia 5031	Australia	+01161882383537	www.heavyindustry. trimble.com	Dawn CirkI General Manager
<b>Wampfler</b>	8091 Production Drive Florence, KY 41042	USA	(859) 342-8300 x219	www.wampfler.com	Rod Griffith Director of Marketing

## CRANE MANUFACTURERS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Altec</b>	210 Inverness Center Drive Birmingham, AL 35242	USA	(205) 991-7733	www.altec.com	Lee Styslinger Chairman/CEO
<b>Amco Veba</b>	Gian Paolo Aschero Bolingbrook, IL 60440	USA	(630) 326-6900	www.fischercrane.com	Lee O'Hara
<b>American &amp; Ohio Locomotive Crane</b>	811 Hopley Avenue Bucyrus, OH 44820	USA	(419) 562-6010	www.aolcrane.com	Craig Goodenough Sales Manager
<b>Auto Crane Company</b>	4707 N Mingo Road Tulsa, OK 74117	USA	(918) 879-8522	www.autocrane.com	John Celoni President/CEO
<b>Bailey Cranes</b>	8111 W. Bradley Road Milwaukee, WI 53223	USA	(414) 446-8412	www.baileycranes.com	Jeff Bailey President
<b>Bigge Crane and Rigging</b>	10700 Bigge Ave. San Leandro, CA 94577	USA	(510) 638-8100	www.bigge.com	Joseph Nelms Vice President
<b>Broderon Manufacturing</b>	14741 W. 106th Street Lenexa, KS 66215	USA	(913) 888-0606	www.bmccranes.com	George Schildhouse Inside Sales & Marketing Manager
<b>Cargotec</b>	12233 Williams Road 00180 Helsinki	Finland	+358 20 777 4000	www.cargotec.com	Mika Vehviläinen President
<b>CCSI/Cormach Cranes</b>	61 Augusta Ct. Charles Town, WV 25414	USA	(888) 229-3184	www.ccsi-cranes.com	Steve Carlson Sales & Marketing
<b>CIFA USA</b>	1515 County Road 1 Tiffin, OH 44883	USA	(419) 558-9891	www.cifa.com	Walter Vimercati President
<b>Comansa</b>	11608 Downs Road Pineville, NC 28134	USA	(704) 588-7729	www.northamerica. comansa.com	Joseph Patton Sales Manager
<b>Effer North America</b>	307 Munroe Falles Avenue Cuyahoga Falls, OH 44221	USA	(330) 916-6461	www.effer.com	Timothy Smith President
<b>Elliott Equipment Company</b>	4427 South 76th Circle Omaha, NE 68127	USA	(402) 592-4500	www.elliottequip.com	Jim Glazer President



<b>Enerpac</b>	N86W12500 Westbrook Crossing Menomonee Falls, WI 53051	USA	(262) 293-1684	www.enerpac.com	Peter Crisci Commercial Manager Heavy Lifting Technology
<b>EZ Rig Crane</b>	1500 Palma Dr. 2nd Floor. Ventura, CA 93003	USA	(800) 643-4387	www.ezrigcrane.com	Ray Neria Sales Manager
<b>Fascan Intenational</b>	4517 North Point Blvd. Baltimore, MD 21219	USA	(800) 632-7226	www.fascan.com	Bernie Faloney President/CEO
<b>Favelle Favco</b>	26360 FM 106 Harlingen, TX 78550	USA	(956) 428-7488	www.favellefavco.com	Michael Khoo President
<b>Fischer Crane</b>	585 E South Frontage Road Bolingbrook, IL 60440	USA	(630) 739-6900	www.fischercrane.com	Lee O'Hara President
<b>FM Gru</b>	6330 148th Street Surrey, BC V3S 3C4	Canada	(604) 599-4200	www.fmgru.it	
<b>Global Crane/Zoomlion</b>	14702 Jersey Shore Drive, Houston, TX 77040	USA	(832) 460-3939	www.globalcranes.com	
<b>Giuffre Bros. Cranes</b>	6635 South 13th Street Milwaukee, WI 53221	USA	(414) 764-9200	www.giuffre.com	Todd Proctor General Manager
<b>Hoist Litruck Manufacturing</b>	6499 W. 65th Street Bedford Park, IL 60638	USA	(800) 367-5600	www.hoistlift.com	Marty Flaska President
<b>Intensus Engineering</b>	3691 Route 9 Cold Spring, NY 10516	USA	(845) 265-6000	www.intensus.com	Juan Carlos Salcedo
<b>XCMG</b>					
<b>Iowa Mold Tooling</b>	500 Hwy 18 W Garner, IA 50438	USA	(641) 923-3711	www.imt.com	Tim Worman Bus. Dev. Manager
<b>J&amp;R Engineering</b>	538 Oakland Avenue Mukwonago, WI 53149	USA	(262) 363-9660	www.jrengco.com	John McMahon V.P. Sales & Service
<b>Jekko USA</b>	4517 North Point Blvd. Baltimore, MD 21219	USA	(410) 344-5011	www.jekkousa.com	Rich Caudill Product Manager
<b>Jost</b>	1170 Hayes Grand Haven, MI 49417	USA	(800) 253-5105	www.jostinternational.com	Scott Vandermolen Sales
<b>Jost Cranes</b>	Herzogplatz 30 85604 Zorneding	Germany	+49 8106 9995580	www.jost-cranes.com	Alexander Jost Managing Director
<b>Kobelco Construction Machinery USA</b>	22370 Merchants Way Katy, TX 77449	USA	(281) 888-8430	www.kcmu-cranes.com	Jack Fendrick COO
<b>Koenig Cranes North America</b>	2190 A- Carpenter Street Abbotsford, BC V2T 4X2	Canada	(877) 852-2192	www.koenigcranes.com	John Majernik Specialist
<b>Lampson International</b>	607 E. Columbia Drive Kennewick, WA 99336	USA	(509) 586-0411	www.lampsoncrane.com	William Lampson President & CEO
<b>Liebherr Cranes</b>	4100 Chestnut Avenue Newport News, VA 23607	USA	(757) 933 2185	www.liebherr.com	Gerd Booch Area Sales Manager
<b>Liebherr Canada</b>	1015 Sutton Drive Burlington, ON L7L 5Z8	Canada	(800) 387-3922	www.liebherr.com	Tim Petersen Product Manager
<b>Liebherr Cranes USA</b>	4100 Chestnut Avenue Newport News, VA 23607	USA	(757) 245-5251	www.liebherr.com	Tim Gerhardt Managing Director
<b>Mobile &amp; Crawler Cranes Division</b>					
<b>Liebherr USA, Co. MCCtec Division</b>	7075 Bennington Street Houston, TX 77028	USA	(713) 636-4050	www.liebherr.com	Tobias Haemmerle Director
<b>Liebherr Tower Crane Division</b>	4100 Chestnut Avenue Newport News, VA 23607	USA	(757) 245-5251	www.liebherr.com	Christophe Brandenburg Sales Manager
<b>Lift Systems</b>	1505 - 7th Street East Moline, IL 61244	USA	(309) 764-9842	www.lift-systems.com	Bruce Forster President
<b>Lift Systems Canada</b>	35 Longworth Ln. Woodstock, ON N4V1G6	Canada	(519) 539-0213	www.lift-systems.com	Darryl Wharram President
<b>Liftech Consultants</b>	344 20th Street, Suite 360 Oakland, CA 94612	USA	(510) 832-5606	www.liftech.net	Teresa Ferguson Marketing
<b>Link-Belt Construction Equipment</b>	2651 Palumbo Drive Lexington, KY 40509	USA	(859) 263-5200	www.linkbelt.com	Melvin Porter President
<b>Maeda America</b>	22130 Merchants Way Katy, TX 77449	USA	(713) 715-1500	www.maedausa.com	
<b>Mammoet Americas</b>	20525 FM 521 Rosharon, TX 77583	USA	(281) 369-2200	www.mammoet.com	John Halfweg Managing Director
<b>Mammoet Canada East</b>	2 Bluewater Road Suite 246, B4B 1G7 Bedford, Nova Scotia	Canada	(902) 450-0550	www.mammoet.com	
<b>Mammoet Canada West</b>	12920 - 33 Street NE T6S 1H6 Edmonton, Alberta	Canada	(780) 449-0552	www.mammoet.com	
<b>Manitex International</b>	9725 Industrial Drive Bridgeview, IL 60455	USA	(708) 237-2079	www.manitex.com	Michael Coffey CEO

## CRANE MANUFACTURERS continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>The Manitowoc Company</b> (Grove, National Crane, Potain)	11270 W Park Pl Ste 1000, Milwaukee, WI 53224	USA	(414) 760-4600	www.manitowoc.com	Dave Hull GM North America Mobiles
<b>Marine Travelift International</b>	12 Stratfield Park Waterloooville, Hants PO7 7XN	UK	44 (0) 2392 230 811	www.marinettravelift.com	Erich Pfeifer President and CEO
<b>Mi-Jack Products</b>	3111 W. 167th St. Hazel Crest, IL 60429	USA	(708) 596-5200	www.mi-jack.com	Mike Lanigan, Jr. Sales Manager
<b>New Dafang Heavy Industry S&amp;T</b>	401 E 34th Street N28C New York, NY 10016	USA	(212) 845-1100		
<b>North American Lifting Equipment (Effer)</b>	307 Munroe Falles Avenue Cuyahoga Falls, OH 44221	USA	(330) 929-3303	www.efferusa.com	Timothy Smith President
<b>ORMIG</b>	Piazzale Ormig, Regione Carlovini 12/A Ovada, AL 15076	Italy	39 0143 80051	www.ormig.com	Gian Paolo Aschero
<b>Palfinger</b>	7942 Dorchester Rd. Niagara Falls, ON L2G 7W7	Canada	(905) 374-3363	www.palfinger.com	Tim Arkilander VP Sales & Business Development
<b>PM Group S.P.A</b>	Via G. Verdi 22	Italy	39 059 936811	www.pm-group.eu	Stefano Ghesini Vice President
<b>QMC Hydraulic Cranes</b>	18071 Mt. Washington St Fountain Valley, CA 92708	USA	(800) 331-7959	www.qmccranes.com	Rex McAfee Manager
<b>Riggers Manufacturing Company</b>	1555 IL Route 26 South Dixon, IL 61021	USA	(815) 288-7626	www.riggers.com	Bruce Forster President
<b>Rigging Gear Sales</b>	1555 IL Route 26 South Dixon, IL 61021	USA	(815) 288-6403	www.rgsinc.net	Bruce Forster President
<b>Sany America</b>	318 Cooper Circle South Peachtree City, GA 30269	USA	(678) 251-2810	www.sanyamerica.com	Xiang Wenbo President
<b>Sarens USA</b>	2812 Avenue S Dickinson, TX 77539	USA	(832) 536-3669	www.sarens.com	Lee Rowe Regional Director North America
<b>Shuttlelift</b>	49 E Yew Street Sturgeon Bay, WI 54235-1976	USA	(920) 743-8650	www.shuttlelift.com	Kurt Minten Director
<b>Spydercrane Sales</b>	5326 W. Mohave Street Phoenix, AZ 85043	USA	(623) 215-1000	www.spydercrane.com	
<b>Stellar Industries</b>	PO Box 169 Garner, IA 50438	USA	(641) 923-3741	www.stellarindustries.com	David Zrostilk President
<b>Tadano America Corporation</b>	4242 W. Greens Road Houston, TX 77066	USA	(281) 869-0030	www.tadanoamericas.com	Sven Ebinger Vice President, Marketing
<b>Tadano America</b>	1705 Columbia Avenue, Suite 200 Franklin, TN 37065	USA	(615) 794-4556	www.mantiscranes.com	Kozo Yoshida COO
<b>Terex Cranes</b>	9528 West Interstate 40 Service Road Oklahoma City, OK 73128	USA	(877) MY-TEREX	www.terex.com/cranes/en	Chris Johnson Director, North American Sales
<b>Towerwork</b>	7 Old Field Road New York, NY 11733	USA	(516) 303-3004	www.towerwork.net	
<b>Valla (A Manitex Company)</b>	9725 Industrial Drive Bridgeview, IL 60455	USA	(708) 237-2076	www.valla-cranes.co.uk	Matthew Priest North American Distribution Manager
<b>Wilbert Tower Cranes</b>	Lohrgraben 2 55444 Stromberg Waldlaubersheim	Germany	+49 6707 66680	www.wilbert.de	Guenter Kronewitter Sales Director
<b>Wolffkran</b>	45 Main St., Suite 712 Brooklyn, NY 11201	USA	(718) 418-9650	www.wolffkran.com	Michael Herget President
<b>XCMG</b>	Industry Area No. 1 Xuzhou Economic Jangsu 221004	China	86 516 8773 871	www.xcmg.com	Rubens Azevedo Representative
<b>Zoomlion</b>	No. 361 South Ynpen Road Changsha, Hunan P.R. 410013	China	0086-731-88928069	www.zoomlion.com	
<b>Zoomlion Heavy Industry NA</b>	14215 Two Mile Road Yorkville, WI 53126	USA	(262) 835-1828	www.zoomlion-na.com	Nicky Zhang Sales Manager, North America

## CRANE MATS, PADS & CRIBBING

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>AlturnaMATS</b>	701 E Spring St, Mailbox #9 Titusville, PA 16354	USA	(800) 438-9336	www.alturnamats.com	Jack Roser President
<b>American Mat &amp; Timber</b>	6422 McGrew Houston, TX 77087	USA	(800) 671-0694	www.amtmat.com	Mike Robbins Owner
<b>Beasley Forest Products</b>	P O Box 788 Hazlehurst, GA 31539	USA	(912) 375-5174	www.beasleyforestproducts.com	Rabun Beasley Owner
<b>Better Header</b>	10 Dunton Avenue Deer Park, NY 11729	USA	(631) 242-1962	www.betterheader.com	Mark Foscolo Principal
<b>Bigfoot Construction Equipment</b>	1111 Broadway Court Woodstock, IL 60098	USA	(888) 743-7320	www.outriggerpads.com	Jeff Steiner Owner
<b>Bridgewell Resources</b>	10200 SW Greenburg Road Tigard, OR 97223	USA	(503) 872-3404	www.bridgewellresources.com	Vince Walters General Manager
<b>Carolina Mat</b>	P O Box 339 Plymouth, NC 27962	USA	(252) 793-4045	www.carolinamat.com	Ronald Harrison Owner
<b>Composite Advantage</b>	401 Kiser Street Dayton, OH 45404-1639	USA	(937) 723-9031	www.creativecompositesgroup.com	Scott Reeve President
<b>CraneWorks</b>	7795 East Little York Road Houston, TX 77016	USA	(281) 219-7779	www.crane-works.com	Keith Ayers CEO
<b>DICA</b>	4105 129th St. Urbondale, IA 50323	USA	(712) 794-3103	www.dicausa.com	Kevin Koberg Marketing Director
<b>Fuqua Sawmill</b>	1761 NW 34th Ave. Ocala, FL 34475	USA	(352) 629-4713	www.cranematsflorida.com	Larry Fuqua Owner
<b>Industrial Matting LLC</b>	7327 SW Barnes Road #802, Portland, OR	USA	(888) 543-6287	www.industrialmatting.com	Jeremy Thelin President
<b>Lifton's</b>	1037 Highway 64 New Richmond, WI 54017	USA	(866) 439-7208	www.liftonsinc.com	Bob Lifton CEO
<b>Lohrberg Lumber</b>	5662 L Road Waterloo, IA 62298	USA	(618) 542-8024		Thor Lohrberg President
<b>Macroplastics</b>	2250 Huntington Drive Fairfield, CA 94533	USA	(707) 437-1200	www.macroplastics.com	Warren MacDonald CEO & President
<b>New South Equipment Mats</b>	281 Old Jackson Rd, Ste 10 Madison, MS 39110	USA	(866) 922-6287	www.newsouthmat.com	Barb Davis Marketing Director
<b>Nylacast</b>	770 Maple Lebanon, PA 17046	USA	(717) 270-5600	www.nylacast.com	Tanver Ali Sales & Marketing Director
<b>Paul Davis</b>	144 Sawmill Road Amite, LA 70422	USA	(985) 748-7980	www.pauldavisinc.com	Zachary Davis Salesperson
<b>Prime Tech</b>	1210 Warsaw Road, Suite 1200 Roswell, GA 30076	USA	(770) 594-8608	www.primetechpads.com	Antje Price President
<b>Quality Mat Company</b>	6550 Tram Road Beaumont, TX 77713	USA	(800) 227-8159	www.qmat.com	Joe Penland Jr. Vice President
<b>Rhino Cribbing Company</b>	1290 Edgewood Drive Pittsburgh, PA 15120	USA	(800) 974-4669	www.rhinocrib.com	Keith Brody Owner
<b>Rigger Core/Rutland Plywood</b>	One Ripley Road Rutland, VT 05701	USA	(802) 747-4000	www.rutply.com	Jack Barrett Owner
<b>Ritter Forest Products</b>	P O Box 1265 Nederland, TX 77627	USA	(800) 426-9570	www.ritterforest.com	Jessica Ritter-Holmes Sales
<b>Sauber Manufacturing</b>	10 North Sauber Road Virgil, IL 60151	USA	(630) 365-6600	www.saubermfg.com	Mike Blaser Sales Manager
<b>Signature Systems Group</b>	50 East 42nd Street, 14th Floor New York, NY 10017	USA	(212) 953-1116	www.signature-systems.com	Debra Wong Director of Marketing
<b>South Eastern Timber Corporation</b>	P O Box 9289 Coral Springs, FL 33075	USA	(954) 752-3800	www.crane-mats.com	Diane Murray Vice President
<b>Stab Line</b>	4255 Hogan Montreal, QC H2H 2N2	Canada	(514) 521-8552	www.stabline.ca	Pierre-Michels Gendron Sales
<b>Sterling Lumber Company</b>	501 E. 151 Street Phoenix, IL 60426	USA	(708) 388-2223	www.lionlumber.com	Carson Sterling Owner
<b>The Mat Rental Company</b>	15237 County Road 20 Jemison, AL 35085	USA	(205) 646-0316	www.matrentalco.com	Janice Harris General Manager
<b>Turtle Plastics</b>	7400 Industrial Parkway Lorain, OH 44053	USA	(800) 756-6635	www.turtleplastics.com	Jennifer Naelitz, Executive Assistant
<b>Viking Mat Company</b>	7615 Smetana Lane Eden Prairie, MN 55344	USA	(800) 733-3801	www.vikingmat.com	Nate Bergene Sales Manager



## CRANE MATS, PADS & CRIBBING continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>World Forest Group</b>	2100 West Loop South Suite 900 Houston, TX 77027	USA	(722) 473-0328	www.world-forest.com	Jeffrey Atkin CEO
<b>WS Hampshire</b>	365 Keyes Ave Hampshire, IL 60140	USA	(847) 453-8280	www.wshampshire.com	Kevin Pope Regional Sales Manager
<b>YakAccess</b>	2438 Hwy 98 East Columbus, MS 39429	USA	(844) 925-2377	www.yakaccess.com	Frank Bardonaro CEO

## ENGINEERING SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>2DM Associates</b>	9235 Katy Freeway Suite 350, Houston, TX 77024	USA	(713) 461-3500	www.2dm.us	David Duerr, P.E. President
<b>Becht Engineering Company</b>	22 Church Street Liberty Corner, NJ 7938	USA	(908) 394-1260	www.becht.com	Charles Becht President
<b>Chant Engineering</b>	59 Industyral Drive New Britain, PA 18901	USA	(215) 230-4260	www.chantengineering.com	Phil Chant President
<b>Dearborn Companies</b>	7471 W 93rd Street Bridgeview, IL 60455	USA	(708) 430-7600	www.dearbornco.com	Michael T. Walsh President
<b>Haag Engineering</b>	625 Industrial Blvd Sugarland, TX 774789	USA	(281) 313-9700	www.haaggglobal.com	
<b>Howard Shapiro &amp; Associates</b>	303 Merrick Road Suite 400 Lynbrook, NY 11563	USA	(516) 791-2600	www.hisassoc.com	Howard Shapiro, P.E.
<b>Landmark Engineering</b>	2489 Rice Street, Roseville, MN 55113	USA	(651) 482-9750	www.landmarkengineering services.com	Ronald M. Kohner President
<b>Rigging Associates</b>	2144 5th Avenue W Seattle, WA 98149	USA	(206) 817-4939		Michael Lyons Owner
<b>Ruby + Associates</b>	3044 Northwestern Highway, Farmington Hills, MI 48334	USA	(248) 865-8855	www.rubyusa.com	Tricia Huneke President/CEO
<b>Stroh Engineering</b>	102 Vanderbilt Avenue Babylon, NY 11704	USA	(631) 669-7531	www.stroengineering.com	Peter Stroh President
<b>Universal Engineering Services</b>	7013 6th Street North Oakdale, MN 55128	USA	(615) 714-0552	www.ues.net	Frank Monteiro President

## ESCORT/PILOT CAR & BUCKET TRUCK SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>All Area Escort Service</b>	P O Box 745 Eastman, GA 31023	USA	(478) 374-1981		John Upshaw Owner
<b>Barney's Pilot Car Equipment</b>	2233 NE 244th Avenue, # 4 Wood Village, OR 97060	USA	(503) 665-4444	www.barneypilotcar.com	
<b>Cheyenne's Pilot Cars</b>	P.O. Box 122 Brookeville, MD 20833	USA	(301) 774-9061	www.cheyennespilotcars.com	Jennifer Jeffries & Katherine Phipps Co-owners
<b>Comdata Network</b>	5301 Maryland Way Brentwood, TN 37027	USA	(615) 376-6822	www.comdata.com	Gladys Work Sales
<b>Diamond Plus Specialized</b>	1 William Street S Clifford, Ontario NOG 1M0	Canada	(877) 327-4567	www.diamondplusspecialized.com	Ryann Dodd Operations Manager
<b>Duncan Escort Service</b>	P. O. Box 786 Rosedale, VA 24280	USA	(276) 970-2960		R.R. Duncan Owner
<b>High, Wide &amp; Heavy Oversize Escorts</b>	312 Arthur Kill Road Staten Island, NY 10308	USA	(347) 236-9995	www.highwidenheavy.us	John Incontrera President
<b>Interstate Flag Car</b>	1358 Greenbag Road Morgantown, WV 26508	USA	(304) 296-8111		Herold Berthy, Jr., President
<b>Jim's Pilot Car Services</b>	3619 W Smith Ferry Road Muskogee, OK 74401	USA	(918) 682-9636	www.jimpilotcar.com	Jimmy Lee Owner
<b>Kenco Bucket Trucks</b>	P.O. Box 478 Channelview, TX 77530	USA	(281) 459-3100	www.highloads.com	Kenny Mungle Owner
<b>Landstar Carrier Group</b>	13410 Sutton Park Drive, Jacksonville, FL 32224-5270	USA	(800) 872-9400	www.landstar.com	Michael Cashner Vice President
<b>Linda's Truck Escorting Service</b>	7321 Ringertown Road Export, PA 15632	USA	(724) 468-5019		Linda L. Kuhn President
<b>Morrell Oversize</b>	10752 171st Ave NW Elk River, MN 55330	USA	(763) 441-2011	morrelloversize.com	Terry Morrell Owner

<b>National Pilot Car Safety Institute</b>	2233 NE 244th Ave., Suite E-4, Wood Village OR 97060	USA	(503) 328-8520	www.npcsi.net	Steven Barnes Director
<b>New York Truck Escort &amp; Permits, Inc.</b>	792 Frankford Road West Babylon, NY 11704	USA	(631) 669-3742	www.newyorktruckescorts.com	Maureen Mandich President
<b>NKS Piloting</b>	11699 N. 340 Road	USA	(918) 218-5218		Nadia Sokolowski Business Owner
<b>Nova Permits &amp; Pilot Cars</b>	2800 Ave. St-Jean-Baptist, Ste 235, Quebec City, PQ G2E 6J5	Canada	(418) 527-7775	www.novapermits.com	Louis Juneau President
<b>ODS North America</b>	7575 Trans Canada Hwy., Suite 500, St. Laurent, PQ H4T 1V6	Canada	(877) 635-7164	www.odsna.com	Nick Ruscito-Caissy Director
<b>Pilotcarz4u</b>	P O Box 864 Williston, SC 29853	USA	(803) 266-5149	www.pilotcarz4u.com	Kay Greene-Smith Owner
<b>Pyramid Escort Service</b>	6321 Branderham Dr Memphis, TN 38134	USA	(901) 508-1806		Scott Sartin Vice President
<b>Redneck Enterprises</b>	P.O. Box 734 Ignacio, CO 81137-0734	USA	(970) 884-2369		Dale W. Baird Owner
<b>Route America</b>	P O Box 1409 Frankfort, KY 40602	USA	(866) 577-6883 x222	www.routeamerica.com	Jim Simpson President
<b>Sapphire Rose Pilot Car</b>	P.O. Box 115 Converse, TX 78109	USA	(210) 661-6441	www.sapphirerosepilotcar.com	Vickie Simmons President
<b>State Line Pilot Car</b>	4052 Stoddard Road Canandaigua, NY 14424	USA	(585) 394-9364	www.statelinepilotcar.com	Freddie Albrecht Owner
<b>Statewide-Nationwide Bucket Truck Escorts</b>	1411 W. 34th Street Houston, TX 77018-6211	USA	(713) 476-9101	www.buckettruckescorts.com	Billy D. Ralls President/CEO
<b>Sunshine Flag Car Service</b>	P.O. Box 262 Hershey, PA 17033	USA	(717) 534-1213		Thomas Alexander President
<b>Sweet 'P' Express - Escort Service</b>	4038 Route 20 Esperance, NY 12066	USA	(518) 527-6524		Pauline Hrycenko Owner
<b>TrailBlazer Pilot Car Services</b>	P O Box 17972 San Antonio, TX 78217	USA	(210) 822-7501	www.trailblazerpilotcar.com	Jake & Pat Kimmel Owners
<b>Triton Transport</b>	20331 Duncan Way Langley, BC V3A 7N3	Canada	604-530-5124	www.tritontransport.com	Julie Burgess Communications Mgr.
<b>WCS Permits</b>	150 E. Arrow Highway San Dimas, CA 91773	USA	(888) 737-6483	www.wcspermits.com	Wesley Mollno President/Owner
<b>Wheeling Equipment Company</b>	4407 Opelousas Street Lake Charles, LA 70615	USA	(800) 555-1212	www.wheelingequipment.com	Terry Graham President

## FALL PROTECTION

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Bairstow Lifting Products</b>	1785 Ellsworth Industrial Dr. Atlanta, GA 30318	USA	(800) 241-8990	www.bairstow.com	Robert Bairstow, Jr. President
<b>Buckingham Manufacturing</b>	P O Box 1690 / 11 Travis Avenue, Binghamton, NY 13904	USA	(607) 773-2400	www.buckinghammfg.com	James Pennefeather Vice President/ Sales & Marketing
<b>DBI/SALA</b>	3833 Sala Way Red Wing, MN 55066	USA	(800) 328-6146	www.capitalsafety.com	James Preacher Regional Sales Director
<b>Elk River</b>	PO Box 1770 Cullman, AL 35056	USA	(256) 739-5959	www.elkriver.com	Paul Doepe General Manager
<b>European Technology Center NA</b>	930 East Drayton Ferndale, MI 48220	USA	(248) 217-1945	www.etcna.net	Robert Walther Managing Director
<b>Fall-Tech</b>	1306 S. Alameda St. Compton, CA 90221	USA	(323) 752-0066	www.falltech.com	Kelly May Marketing Manager Managing Director
<b>FrenchCreek Fall Safety</b>	100 N. 13th Street Franklin, PA 16323	USA	(877) 228-9327	www.frenchcreek production.com	Stefan Marcella Marketing Coordinator
<b>Guardian Fall Protection</b>	26513 79th Ave South Kent, WA 98032	USA	(800) 466-6385	www.guardianfall.com	Jasson Farrier Vice President, Sales
<b>Honeywell Safety Products</b>	900 Douglas Pike Smithfield, RI	USA	(800) 873-5242	www.sps.honeywell.com	
<b>Latchways Fall Protection</b>	Hopton Park, Devizes, Wilshire SN10 2JP	UK	1.14414E+13	www.latchways.com	Duncan Mathieson Sales
<b>MSA North America</b>	P O Box 427 Pittsburgh, PA 15230	USA	(724) 776-8721	www.msasafety.com	Robert Apel Product Line Manager Fall Protection

FALL PROTECTION *continued*

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>RIT Safety Solutions</b>	1900 Enterprise Pkwy, Ste H, Twinsburg, OH 44087	USA	(800) 254-2990	www.ritsafetysolutions.com	Omar Jordan President
<b>Samsel Supply Company</b>	1285 Old River Road Cleveland, OH 44113	USA	(800) 892-8012	www.samselsupply.com	Kathleen S. Petrick President
<b>Standfast</b>	953 Chestnut St. Suite 303 Chicago, IL 60642	USA	(877) 850-8726	www.sftram.com	Ted O'Brien President
<b>Tech Safety Lines</b>	3204 Skylane Dr, Ste D Carrollton, TX 75006	USA	(214) 987-4680	www.techsafetylines.com	Brent Wise COO
<b>Tractel</b>	51 Morgan Drive Norwood, MA 02062	USA	(800) 421-0246	www.tractel.com	John Basalyga VP & General Manager
<b>Tractel, a division of Griphoist</b>	1615 Warden Avenue Scarborough, ON M1R 2T3	Canada	(416) 298-8822 x247	www.tractel.com/us	Nicole Branidis Sales and Marketing
<b>Transportation Safety Apparel</b>	14B Cardinal Street Hilton Head, SC 29926	USA	(843) 686-4046	www.tsasafety.com	Rick Norton Large Account Specialist
<b>Winsafe Corp.</b>	One Valleywood Drive, Unit 1, Markham, ON L3R 5L9	Canada	(905) 474-9340	www.winsafe.com	Rick McKinlay Sales & Marketing Manager
<b>Woods Logging &amp; Industrial Supply</b>	702 Industrial Way Longview, WA 98632	USA	(360) 577-8030	www.woodsindustrialsupply.com	Brett Doyle Sales Manager

## FINANCIAL SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Alliance Funding Group</b>	3745 West Chapman Avenue, Suite 200, Orange, CA 92868	USA	(800) 978-8817	www.afg.com	Shawn Donahue Vice President of Sales
<b>Altec Capital Services</b>	33 Inverness Center Parkway Suite 200, Birmingham, AL 35242	USA	(888) 408-8148	www.altec.com/altec-capital/	Shana Foshee Sales & Marketing
<b>CIT Group</b>	One CIT Drive Livingston, NJ 07039	USA	(973) 740-5000	www.cit.com	Vincent Belcastro Managing Director/ Group Head
<b>Commercial Credit Group</b>	525 N Tryon St, Charlotte, NC	USA	(704) 731-0031	www.commercialcreditgroup.com	Julie Murphy VP Marketing
<b>DLL Group Canada</b>	3450 Superior Court, Unit 1 Oakville, Ontario, L6L 0C4	Canada	(905) 465-4960	www.dllgroup.com	G. Peter Horan President & CEO
<b>Deutsche Leasing USA</b>	190 S. LaSalle St., Suite 2150, Chicago, IL 60603	USA	(312) 678-4265	www.deutsche-leasing.com	Rainer Voelker Head of Vendor Sales
<b>First Financial Equipment Leasing</b>	750 City Drive Suite 300 Orange, CA 92868	USA	(714) 646-1619	www.ffequipmentleasing.com	Jeffrey Whitcomb Vice President, Construction Lead
<b>FMI Corporation</b>	5171 Glenwood Avenue Raleigh, NC 27612	USA	(919) 785-9236	www.fmicorp.com	Tom Smith Director of Marketing
<b>GE Capital</b>	201 Main Ave. Norwalk, CT	USA	(203) 229-5717	www.gecapital.com	Ned Reynolds Director
<b>Harry Fry &amp; Associates</b>	291 Main Street West Newbury, MA 01985	USA	(978) 308-1000	www.harryfry.com	Harry Fry President
<b>Heartland Equipment Finance</b>	445 West Oklahoma Avenue Milwaukee, WI 53207	USA	(414) 747-7256	www.heartlandloans.net	Scott Blair President
<b>Industrial IIIIE</b>	17,314 SH 249, Suite 315 Houston, TX 77064	USA	(281) 894-8000	www.iii-inc.com	Patrick Flinn Managing Director
<b>Intek Leasing</b>	152 Eagle Rock Ave Roseland, NJ 07068	USA	(973) 403-7788	www.intekleasing.com	Paul Garfunkel Leasing Specialist
<b>Manitowoc Finance</b>	1565 Buchanan Trail East Shady Grove, PA 17256	USA	(717) 597-8121	www.manitowoc.com/support/ manitowoc-finance	
<b>Orange Commercial Credit</b>	10121 SE Sunnyside Road, # 300, Clackamas, OR 97015	USA	(888) 266-0211	www.occfactor.com	Tina Cawthorn Account Representative
<b>PCE</b>	200 E. New England Ave Winter Park, FL 32789	USA	(407) 621-2100	www.pcecompanies.com	Michael Rosendahl Investment Banker
<b>People's Capital and Leasing</b>	2135 City Gate Lane, Suite 300, Naperville, IL 60563	USA	(630) 780-1021	www.peoples.com	



<b>SG Equipment Finance USA</b>	480 Washington Blvd., 24th Floor, Jersey, City, NJ 07310	USA	(201) 839-1125	www.sgef.us	Tom Vasilakos Director of Industrial Sales
<b>Siemens Financial Services</b>	301 Lindenwood Drive, Suite 215, Malvern, PA 19355	USA	(866) 249-4496	www.siemens.com/finance	Scott Morrish Account Executive
<b>Simmons Bank</b>	2050 Hall Johnson Rd. Grapevine, TX 76051	USA	(817) 916-6220	www.simmonsbank.com	Craig Caldwell SVP/Managing Director
<b>SL Financial Services</b>	251 Riverside Avenue Westport, CT 6880	USA	(203) 227-5225	www.slfinancial.com	Nils Boenicke Senior Vice President of Marketing
<b>Terex Financial Services</b>	200 Nyala Farm Rd Westport, CT 6880	USA	(503) 245-3232	www.terex.com/en/ products-services/ equipment-financing/overview	Josh Curtis National Product Manager
<b>Trinity Vendor Finance</b>	475 Sansome St., 19th Floor, San Francisco, CA 94111	USA	(800) 841-4433	www.trinityvf.com	Alan Adelson Senior Engineer
<b>Wells Fargo Equipment Finance</b>	2700 South Price Road Chandler, AZ 85286	USA	(480) 724-3499	www.wellsfargo.com	

## FREIGHT FORWARDING/LOGISTICS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>1A Intermodal</b>	1460 NW 107th Ave Miami, FL 33172	USA	(305) 629-6266	www.1aintermodal.com	Rick Gonzalez CEO
<b>3Plus Logistics</b>	20250 S. Alameda St. Rancho Dominguez, CA, 90221	USA	(310) 667-5167	www.e3pl.com	John Kim Executive Vice President
<b>Access World Logistics Corporation</b>	7 Moonglade Lane Savannah, GA 31411	USA	(912) 352-4248	www.awlcorp.com	Butch Howard Sales & Marketing
<b>American Cargoservice</b>	7886 Convoy Court San Diego, CA 92111	USA	(858) 565-4125	www.acssan.com	Ellen Laramie Vice President
<b>American Heavy Moving &amp; Rigging</b>	1391 E. Phillips Blvd Pamona, CA 91766	USA	(909) 469-2827	www.americanheavymoving.com	Cody Sutton CFO
<b>ATS Specialized</b>	725 Opportunity Drive St. Cloud, MN 56301	USA	(320) 255-7400	www.atsinc.com	Troy Heyne Director of Nat'l & Corporate Accounts
<b>Basil Equipment</b>	31312 Via Colinas, Ste 109 West Lake Village, CA 91362	USA	(818) 991-9694	www.basilequipment.com	Bob Basil President
<b>Bellville Rodair International</b>	7155 Old Katy Rd., #103 Houston, TX 77024	USA	(713) 921-5544	www.bellvillerodair.com	Aubrey Waugh Branch Manager
<b>Bennett International Transport</b>	1001 Industrial Parkway McDonough, GA 30253	USA	(770) 957-1866	www.bennettig.com	Charles Phillips President
<b>C.H. Robinson Project Logistics</b>	102, 6715 - 8 Street N.E. Calgary, AB T2E 7H7	Canada	(403) 295-1505	www.chrprojectlogistics.com	Paul Pols President
<b>C.L. Services</b>	P O Box 91955 Atlanta, GA 30364	USA	(678) 686-0933	www.clservicesinc.com	Jeffrey Lantz President
<b>Convoy Logistics Providers</b>	482 South Service Road East, Suite 117, Oakville, ON L6J 2X6	Canada	(416) 621-1519	www.convoylogistics.ca	Dona Asciak Fletcher C.E.O
<b>GT Worldwide Logistics</b>	306 East Main Street Carnegie, PA 15106	USA	(866) 966-4999	www.gtlogisticsllc.com	Richard S. Francis, President
<b>Landstar</b>	13410 Sutton Park Drive South, Jacksonville, FL 32224	USA	(877) 287-9495	www.landstar.com	Jim Gattoni President/CEO
<b>Logistics Group International</b>	1426 North Post Oak Road Houston, TX 77055	USA	(713) 957-4812	www.lgiinc.com	Stephen Day President/CEO
<b>McDonough Marine Service</b>	1750 Clearview Pkwy Metairie, LA 70001-2470	USA	(504) 780-8100	www.mcdonoughmarine.com	Eric Anderson Sales Manager
<b>Morrell Oversize</b>	10752 171st Ave. NW Elk River, MN 55330-6323	USA	(763) 441-2011	www.morrelloversize.com	Renee Morrell President
<b>NAL Worldwide / Syncreon</b>	1200 Greenbriar Drive Addison, IL 60101	USA	(630) 261-3184	www.syncreon.com	Mary Shawl Strategic Sourcing

## FREIGHT FORWARDING/LOGISTICS continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>PartnerShip</b>	29077 Clemens Road Westlake, OH 44145	USA	(800) 599-2902	www.partnership.com/ 04SCRA	Program Manager
<b>Pioneer Heavy Haul</b>	262 Silberthorn St. Welland, ON, L3B 5N4	Canada	(905) 732-9895	www.pioneerheavyhaul.com	Colton Jones Operations
<b>Q-Line Trucking</b>	2425 Matheson Blvd. E, 8th Floor Mississauga, ON L4W 5K4	Canada	(877) 478-9995	www.qlinetrucking.com	Todd Moore Operations Manager
<b>Racing Cargo USA</b>	22251 Mines Road Laredo, TX 78045	USA	(877) 827-7813	www.racingcargo.com	Edwardo Haros, Director Partner
<b>Red Arrow Logistics</b>	22605 SE 56th Street, Suite 270, Issaquah, WA 98029	USA	(425) 747-7914	www.redarrowlogistics.com	Liz Lasater CEO
<b>Roadrunner Freight</b>	1139 Franklin Ave Fox Rapids, MN 56379	USA	(320) 656-8848 x17	www.rrts.com	Dave Demuth President
<b>The Fogel Company</b>	4431 California St. San Francisco, CA 94118	USA	(415) 422-0081	www.fogelco.com	Rob Fogel President
<b>Transportation Logistics Systems</b>	2510 East 85th Street Kansas City, MO 64132	USA	(816) 931-9479	www.translogsys.com	Melody Warren President and CEO
<b>UNI International</b>	100 Corey Avenue St. Petersburg, FL 33706	USA	(727) 360-2844	www.uniinternational.com	Joseph Schulte President

## INSURANCE/RISK MANAGEMENT

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Allied Insurance Brokers</b>	4 Gateway Center, 444 Liberty Ave., Suite 400, Pittsburgh, PA 15212	USA	(800) 569-9427	www.alliedinsbrokers.com	Tres Whitlock President
<b>Association Benefit Resources</b>	6550 South Millrock Drive, Suite 300, Salt Lake City, UT 84121	USA	(801) 937-6700	www.scrhealthplan.com	David Runnells Program Director
<b>Assurance Agency</b>	1750 E. Golf Road Schaumburg, IL 60173	USA	(847) 797-5700	www.assuranceagency.com	Lindsey Malone Marketing
<b>Baldwin &amp; Lyons</b>	1099 N. Meridian Street Indianapolis, IN 46204	USA	(800) 644-5501	www.protectiveinsurance.com	Tonya Simms Director
<b>Brennan &amp; Stuart Inc (BSI)</b>	222 Bucklin St LaSalle, IL 61301-3457	USA	(630) 209-3144	www.brennanstuart.com	Chris Kozlowski Sales Executive
<b>Construction Insurance Agency</b>	11290 Balls Ford Road Manassas, VA 20100	USA	(703) 257-7540	www.const-ins.com	George Pocock President
<b>ECBM</b>	300 Conshohocken State Rd., Suite 405, West Conshohocken, PA 19428	USA	888 313-3226	www.ecbm.com	Chris Ianovalle Vice President
<b>EPG Insurance</b>	PO Box 171199 Memphis, TN 38187	USA	(407) 788-6657	www.epgins.com	Dale Hendrix Vice President
<b>Great American Group</b>	9 Parkway North, Ste. 300, Deerfield, IL 60015	USA	(847) 943-2094	www.brileyfin.com	Connie Stevens Marketing Manager
<b>Hays Companies</b>	One South Wacker Drive, Suite 3350, Chicago, IL 60606-4639	USA	(312) 254-3722	www.hayscompanies.com	
<b>Insurance Innovators</b>	130 S Easton Road Glenside, PA 19038	USA	(215) 885-7300	www.iiigroup.com	Rich Marburg COO
<b>McGriff</b>	One Premier Plaza, Suite 300, 5605 Glenridge Drive, Atlanta, GA 30342	USA	(800) 476-2541	www.mcgriff.com	Mary Kay Caldwell Chief Operating Officer
<b>Meadowbrook Insurance Group</b>	26255 American Dr Southfield, MI 48034	USA	(248) 204-8145	www.meadowbrookagency.com	Carol Zieck Vice President
<b>National Interstate Insurance</b>	3250 Interstate Drive Richfield, OH 44286	USA	(330) 659-8900	www.nationalinterstate.com	Tony Mercurio President & CEO
<b>NBIS NationsBuilders Insurance Services</b>	2859 Paces Ferry Road, Suite 800, Atlanta, GA 30339	USA	(770) 257-1777	www.nbis.com	Bill Tepe President
<b>Neace Lukens</b>	645 E. Missouri Ave., Suite 290, Phoenix, AZ 85012	USA	(480) 308-4717	www.assuredpartners.com	Judy Sivy Senior Account Executive

<b>Norman Spencer Agency</b>	800 East Main Street, Suite A, Lansdale, PA 19446	USA	(215) 809-2160	www.norman-spencer.com	Megan Rose Crane Operators Program
<b>Security Insurance Services</b>	P O Box 510925 New Berlin, WI 53151	USA	(262) 785-9490	www.securityins.net	Lori Averbeck Vice President
<b>Sentry Insurance</b>	1800 North Point Drive, Stevens Point, WI 54481	USA	(715) 346-6333	www.sentry.com	Bill Ferro Director of Sales/ Dealer Operations
<b>South Group Insurance Services</b>	812 Hardy Street Hattiesburg, MS 39402	USA	(601) 545-1643	www.southgroup.net	Gates Goza Agent
<b>Texans Insurance Group</b>	5050 Quorum Drive, Ste 500, Dallas, TX 75254	USA	(972) 991-6677	www.texaninsurance.com	Larry Kufel Marketing
<b>The Horton Group</b>	645 E Missouri Avenue, Ste 290, Phoenix, AZ 85012	USA	(480) 308-4717	www.thehortongroup.com	Bill Horton Owner
<b>USI Insurance Services, LLC</b>	201 Alhambra Circle, Coral Gable, FL 33134	USA	(305) 669-6000	www.usi.biz	Jeffrey Haynes Agent
<b>Vela Insurance Services</b>	311 South Wacker Dr., Suite 3600, Chicago, IL 60606	USA	(312) 725-7691	www.vela-ins.com	David Jordan President
<b>Zurich</b>	7045 College Blvd. Overland Park, KS 66211	USA	(800) 821-7803	www.zurichna.com	Robyn Ziegler

## MARINE SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Lake Michigan Carferry</b>	P.O. Box 708 Ludington, MI 49431	USA	(231) 843-1004	www.ssbadger.com	Pat McCarthy Vice President
<b>McDonough Marine Service</b>	1750 Clearview Pkwy., Suite 201 Metairie, LA 70001	USA	(504) 780-8100	www.mcdonoughmarine.com	Eric Anderson Sales Manager

## OEM COMPONENTS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Allied Power Products</b>	6590 SW Fallbrook Place Beaverton, OR 97008	USA	(503) 626-0654	www.alliedpower.com	Matt Haywood Marketing
<b>Avon Bearing</b>	1500 Nagle Road Avon, OH 44011	USA	(440) 871-2500	www.kaydonbearings.com	Ron Shaw Remanufacturing Manager
<b>Braden Carco Gearmatic Paccar Winch Division</b>	PO Box 547 Broken Arrow, OK 74013	USA	(918) 251-8511	www.paccarwinch.com	Jim Braden Vice President
<b>Bremser North America</b>	1640 Shanahan Drive South Elgin, IL 60177	USA	(847) 289-3460	www.bremserl.com	Mike Konrad Sales/Marketing Manager
<b>Bridgestone/ Firestone Off Road Tire</b>	535 Marriott Drive Suite 800 Nashville, TN 37214	USA	(800) 905-2367	www.bfor.com	
<b>Carol Crane Rigging and Lifting Technologies</b>	P.O. Box 5605 Pasadena, TX 77508	USA	(713) 475-7181	www.ccrllt.com	David Martinez, Jr.
<b>Century Tire</b>	5355 E 39th Avenue Denver, CO 80207	USA	(303) 455-3302	www.centurytireinc.com	Mark Biere President
<b>Continental Tire North America</b>	1800 Continental Blvd. Charlotte, NC 28273	USA	(704) 583-8825	www.continentaltire.com	Cliff Armstrong, Head of ContiTrade the Americas
<b>Cummins Off Highway</b>	500 Jackson Street Columbus, IN 47202	USA	(812) 377-5000	www.cummins.com	Steve Sanders Off-highway Marketing/ Communications Manager
<b>Flash Technology</b>	332 Nichol Mill Lane Franklin, TN 37067	USA	(615) 503-2000	www.flashtechnology.com	Wade Collins Director of Business Development
<b>Flite Line USA</b>	12090 Miramar Pkwy Suite 105 Miramar, FL 33025	USA	(954) 433-5617	www.flitelineusa.com	John Biaggi President
<b>Garrod Hydraulics</b>	1050 Locust Point Road York, PA 17406	USA	(717) 767-6429	www.garrod.com	Brian Hollerbush



## OEM COMPONENTS continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Hendrickson</b>	500 Park Blvd., Suite 1010 Itasca, IL 60143	USA	(630) 773-9111	www.hendrickson-intl.com	Rence Oliphant Senior Director of North American Sales
<b>Hercules SLR</b>	520 Windmill Road Dartmouth, NS B3B 1B3	Canada	(902) 482-3125	www.herculesslr.com	Chris Giannou Marketing
<b>Hydra-Slide</b>	5617 4th Line, Rockwood, Ontario, N0B 2K0	Canada	(519) 496-4008	www.hydra-slide.com	Janine Smith Vice President
<b>Hydraforce Hydraulics</b>	500 Barclay Blvd. Lincolnshire, IL 60069	USA	(847) 793-2300	www.hydraforce.com	David Price Marketing Mgr.
<b>JARP Industries</b>	1111 3rd. St. S.E. Waverly, IA 50677	USA	(715) 359-4241	www.jarpind.com	Les Homeister Regional Sales Manager
<b>Kaydon Corp Bearings</b>	2860 McCracken Street Muskeon, MI 49441	USA	(800) 514-3066 x378	www.kaydon.com	Brian Walters Sales and Marketing - Engineered Products
<b>Kinematics Mfg</b>	2221 W Melinda Lane Phoenix, AZ 85027	USA	(623) 780-8944 x121	www.kinematicsmfg.com	David Pope President
<b>KTSDI</b>	801 E Middletown Road North Lima, OH 44452	USA	(330) 783-2000	www.ktsdi.com	Ken Timmings Manager
<b>Loadwise International Ltd.</b>	50, Woolmer Way Bordon, Hampshire GU35 9QF	UK	+44 (0)1420 476500	www.loadwise.co.uk	Ken Grant General Manager
<b>MICO</b>	1911 Lee Blvd North Mankato, MN 56003	USA	(507) 625-6426	www.mico.com	Dona Rehome Manager
<b>MTU Solutions</b>	39525 MacKenzie Dr. Novi, MI 48377	USA	(248) 560-8186	www.mtu-online.com	Philip Clark Senior Sales Manager
<b>Palmer Johnson Power Systems</b>	1835 Haynes Drive Sun Prairie, WI 53590	USA	(800) 341-4334	www.pjpower.com	Brad Borchers Product Support Engineer
<b>Parker Hannifin</b>	5035 Parkland Blvd Cleveland, OH 44124-4141	USA	(216) 896-3000	www.parker.com	Jeff Weber Manager
<b>Prinoth Ltd.</b>	1001 J-A Bombardier Street Granby, QC J2J 1E9	Canada	(819) 421-3099	www.prinoth.com	Doug Little Director of Sales
<b>RBC Bearings</b>	102 Willenbrook Road Oxford, CT 06478	USA	(203) 267-7001	www.rbcbearings.com	Dan Hill, Director of Marketing
<b>Rotek Incorporated</b>	1400 South Chillicothe Road Aurora, OH 44202	USA	(330) 995-7271	www.rotek-inc.com	Laura Hanley Market Research
<b>Simard Suspensions</b>	1064, boul. Mgr-De Laval Baie-Saint-Paul, Quebec G3Z 2W9	Canada	(418) 435-5347	www.simardsuspensions.com	Georges Cloutier, Assistant Sales Manager
<b>Superior Tire &amp; Rubber Corporation</b>	PO Box 308, 1818 Penna Ave West Warren, PA 16365	USA	(814) 723-2370 x116	www.superiortire.com	Betsy Foley Administrator
<b>TSP (Transport Systems And Products, Inc.)</b>	3101 Oxbow Circle Cocoa, FL 32936	USA	(321) 631-3802	www.tpseinc.com	Michael LaScala, Vice President Sales and Marketing
<b>Universal Industrial Products</b>	900 E Hamilton Ave Ste 100 Campbell, CA 95008	USA	(408) 996-2958	www.ui-pi.com	Fred Craig U.S. Operations Manager
<b>Watson &amp; Chalin Manufacturing</b>	725 E University Dr McKinney, TX 75070	USA	(972) 547-6020	www.watsonsuspensions.com	Keith Rhodes Director of Sales/ Marketing
<b>Winches Inc.</b>	5070 Ashley Court Houston, TX 77041	USA	(877) 361-8543	www.winchesinc.com	Matt Mundis Marketing

## OPERATOR ASSIST DEVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Adeunis NA</b>	65 Pondfield Rd, Suite 14 Bronxville, NY 10708	USA	(914) 337-2167	www.vokkero.com	Frank Fischer Director, Marketing and Communications
<b>Allied Safety Systems</b>	5224 W State Rd Sanford, FL 32771	USA	(407) 321-0722	www.sigalarminc.com	Lance Burney President
<b>Basil Equipment</b>	31312 Via Colinas Ste 109, West Lake Village, CA 91362	USA	(818) 991-9694	www.basilcranes.com	Mike Abrams Director of Operations
<b>Cattron Group International</b>	58 West Shenango Sharpsville, PA 16150	USA	(724) 962-2630	www.cattron.com	Mandy Bailey Marketing Assistant
<b>Cervis</b>	140 Thorn Hill Road Warrendale, PA 15086	USA	(724) 741-9000	www.cervisinc.com	Kevin Hadley Sales Manager
<b>Control Chief Corporation</b>	200 Williams Street Bradford, PA 16701	USA	(814) 362-6811	www.controlchief.com	Allison Ambrose Marketing and Graphics Coordinator
<b>Crane Warning Systems</b>	4443 Holden Street Lakeland, FL 33811	USA	(863) 619-5585	www.cranewarning.com	Amber Soukalla Executive Administrator
<b>Cranesmart Systems</b>	4908 97 St. NW Edmonton, AB T6E 5S1	Canada	(780) 437-2986	www.cranesmart.com	Dean Raboud Graphic Designer
<b>Custom Crane Solutions</b>	P O Box 581 Grove City, OH 43123-0581	USA	(614) 610-4324	www.ccranesolutions.com	Darrin Caldwell Custom Crane Solutions
<b>Eartec/PortAPhone</b>	P O Box 560 Narragansett, RI 02882	USA	(401) 789-8700	www.eartec.com	Leigh O'Connor Marketing
<b>HBC-radiomatic</b>	1017 Petersburg Road Hebron, KY	USA	(800) 410-4562	www.hbc-usa.com	Jeff Allan CEO
<b>Hetronic USA</b>	4300 Highline Blvd Bldg. A, Oklahoma City, OK 73108	USA	(405) 946-3574	www.hetronic.com	Tom Devonshire National Sales Manager
<b>Holloway Houston</b>	5833 Armour Drive Houston, TX 77020	USA	(713) 674-5631	www.hhilifting.com	Ezequiel Ortuno Marketing Director
<b>Hydro Electronics Devices (HED)</b>	2120 Constitution Avenue Hartford, WI 53027	USA	(262) 670-5155	www.hedonline.com	Chris Kolbe Vice President of Sales and Marketing
<b>Industrial Magnetics</b>	P O Box 80 Boyne City, MI 49712	USA	(231) 582-3100	www.magnetics.com	Peter Friedrich Strategic Accounts Manager
<b>Intech Video Systems</b>	23301 Vista Grande Dr. Laguna Hills, CA, 92653	USA	(800) 468-3254	www.intecvideo.com	Donald E. Nama II President
<b>Intercomp</b>	3839 County Road 116 Minneapolis, MN 55340	USA	(763) 476-2531	www.intercompcompany.com	Mike Tetzlaff Industrial Sales
<b>Liftex Corporation</b>	48 D Vincent Cr Warminster, PA 18974	USA	(800) 478-4651	www.liftex.com	Mark Kowalick COO
<b>Loadwise International Ltd.</b>	50, Woolmer Way Bordon, Hampshire GU35 9QF	UK	+44 (0)1420 476500	www.loadwise.co.uk	Ken Grant General Manager
<b>Loadwise</b>	18362 Gothard St Huntington Beach, CA 92648-1227	USA	(714) 841-5662	www.loadwise.com	Jim Bennett Owner
<b>Magnetek Material Handling</b>	175 Wall Street Glendale Heights, IL 60139-1985	USA	(800) 288-8178	www.columbusmckinnon.com	Mike Fedorchak, Inside Sales
<b>Magtrol</b>	70 Gardenville Pkwy Buffalo, MN 14224	USA	(716) 668-5555	www.magtrol.com	Jennifer Wilkins Marketing
<b>Markload Systems</b>	1118 N Main St Pearland, TX 77581	USA	(281) 485-8600	www.markload.com	Mike Irwin President
<b>Measurement Systems International</b>	14240 Interurban Ave So. Seattle, WA 98168	USA	(206) 433-0199	www.mscales.com	Tim Carroll Marketing Manager
<b>MTS Sensors</b>	3001 Sheldon Drive Cary, NC 27513	USA	(919) 677-2315	www.mts.com	Julie Malinofski, Marketing and Communications
<b>North West Crane LTD, (NWC)</b>	7015 Sparrow Drive Leduc, AB T9E 7L1	Canada	(780) 980-2227	www.northwestcrane.com	Don Kurjata Vice President
<b>OptiCrane</b>	916 West Broadway Vancouver, BC V5Z 1K7	Canada	(604) 813-8392	www.opticrane.com	Paul Roussel Manager
<b>Professional Service &amp; Repair Inc. (PSR Inc)</b>	P O Box 6506 Columbus, GA 31907	USA	(706) 561-8500 x26	www.psrinc.biz	Jeff Johnson Sales and Marketing

## OPERATOR ASSIST DEVICES continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>RaycoWylie Systems</b>	2440 Dalton Avenue Quebec City, Qc G1P 3X1	Canada	(888) 252-1957	www.raycowylie.com	Manon Huard U.S. Sales Manager
<b>Scale and Control</b>	33100 US-290 Suite B Hockley, TX 77447	USA	(713) 352-3071	www.scaleandcontrol.com	David H. Smith President
<b>Sigalarm</b>	4150 St. Johns Parkway Sanford, FL 32771	USA	(407) 321-0722	www.sigalarminc.com	Lance Burney President
<b>SIKO Products</b>	2155 Bishop Cir. E. Dexter, MI 48130	USA	(734) 426-3476 ext 212	www.sikoproducts.com	Maurizio Masullo President
<b>Straightpoint</b>	1221 Avenida Acaso Suite E Camarillo, CA 93012	USA	(805) 246-1462	www.straightpoint.com	Jeff Miller General Manager
<b>Tractel, a division of Griphoist</b>	1615 Warden Ave Toronto, ON M1R 2T3	Canada	(800) 465-4738 x241	www.tractel.com/us	Steve Gallagher Marketing Manager
<b>TWG</b>	P O Box 1130 Jenks, OK 74037-1130	USA	(918) 298-8300	www.dovertwg.com	Mike Paul Marketing Manager
<b>Trimble Inc.</b>	935 Stewart Drive Sunnyvale, CA 94085	USA	(281) 664-1330	www.trimble.com	
<b>Water Weights</b>	5139 Brook Street, Ste E, Montclair, CA 91763	USA	(909) 626-8316	www.imesinc.com	Jim Jota Manager
<b>WIKA Mobile Control</b>	1540 Orchard Drive Chambersburg, PA 17201	USA	(717) 217-2200	www.wika-mcs.com	Gary Peck General Manager

## PERMITTING SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>AXYS Permits</b>	467 Waterbury Court Gahanna, OH 43230	USA	(614) 471-9400	www.axyspermits.com	Valerie Daniel Sales
<b>Comdata Network</b>	5301 Maryland Way Brentwood, TN 37027	USA	(615) 376-6822	www.comdata.com	Gladys Work Sales
<b>Hartill Heavy Haul</b>	P.O. Box 762 Arbuckle, CA 95912	USA	(530) 476-3820	www.hartillheavyhaul.com	Todd Hartill Vice President
<b>High, Wide &amp; Heavy Oversize Escorts</b>	312 Arthur Kill Rd Staten Island, NY 10308	USA	(347) 236-9995	www.highwidenheavy.us	John Incontrera President
<b>J.J. Keller Permit Service</b>	3003 Breezewood Lane Neenah, WI 54956	USA	(800) 231-5266	www.kellerpermits.com	Kaitlin Cheramy
<b>Mercury Permits</b>	2006 Highland Avenue Las Vegas, NV 89102	USA	(888) 239-7773	www.mercurypermits.net	Steve Thomas Partner
<b>Morrell Oversize</b>	10752 171st Ave NW Elk River, MN 55330	USA	(763) 441-2011	www.morrelloversize.com	Terry Morrell
<b>National Truck Services Group</b>	P.O. Box 56666 Phoenix, AZ 85079	USA	(602) 944-5999	www.gontsg.com	Kathy Herter
<b>New York Truck Escort &amp; Permits</b>	P.O. Box 1814 West Babylon, NY 11704	USA	(631) 669-3742	www.newyorktruckescorts.com	Maureen Mandich President
<b>Nova Permits &amp; Pilot Cars</b>	2800 Ave, St-Jean-Baptist, Ste 235 Quebec City, PQ F2E 6J5	Canada	(418) 527-7775	www.novapermits.com	Louis Juneau President
<b>Permit America</b>	116 Collision Center Drive, Ste. B, Frankfort, KY 40601	USA	(866) 573-7648	www.permitamerica.com	Mary Simpson President
<b>Route America</b>	P O Box 1409 Frankfort, KY 40602	USA	(866) 577-6883 x222	www.routeamerica.com	Jim Simpson President
<b>Sky Guard</b>	2506 Lakeland Drive Suite 403 Flowood, MS 39232	USA	(516) 492-0603	www.skyguard.com	Anthony Del Guercio
<b>State Permits</b>	7049 Mears Gate NW North Canton, OH 44720	USA	(800) 331-4805	www.statepermits.com	Anthony Deliz Vice President
<b>Transmit America</b>	14655 California Street Omaha, NE 68154	USA	(402) 493-6156	www.tmanetwork.com	Rick Waymire President
<b>Transport Permits Ltd.</b>	3825 West 9th Street Waterloo, IA 50702	USA	(319) 235-9033	www.tptrucking.com	John and Flo Schall Owners
<b>WCS Permits</b>	150 E. Arrow Highway San Dimas, CA 91773	USA	(888) 737-6483	www.wcspermits.com	Wesley Molino President
<b>West Chester Permit</b>	P O Box 62293 Cincinnati, OH 45262	USA	(800) 734-3544	www.wcpermit.com	Scott Boehm Vice President, Sales



## PRODUCT SUPPORT/REPAIR

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Bode Technical Services Inc.</b>	234 Columbine Suite 200 Denver, CO 80206	USA	(855) 263-3832	www.bodetechnical.com	Walter Bode President
<b>BPT Components &amp; Parts Inc</b>	P O Box 4100 Sudbury, ON P3A 5Y9	Canada	(705) 524-8400	www.bpt.on.ca	Tim Edwards Vice President
<b>Certified Boom Repair Service</b>	1902 N. 38th Street Tampa, FL 33605	USA	(813) 247-1963	www.certifiedboomrepair.com	Tyler Smith VP Business Development
<b>Contractors Service Company</b>	PO Box 2991 Eugene, OR 97402	USA	(541) 556-0517	www.cscparts.com	Ted Brown
<b>Doc Bailey Construction Equipment</b>	9131 San Leandro St #110 Oakland, CA 94603	USA	(510) 638-6243	www.888docbailey.com	Doc Bailey President/CEO
<b>Domson Engineering &amp; Inspection</b>	190 Wilkinson Road Brampton, ON L6T 4W3	Canada	(905) 789-1326	www.domson.ca	Dennis Domeichini
<b>F &amp; M Mafco</b>	P O Box 11013 Cincinnati, OH 45211-	USA	(513) 367-2151	www.fmmafco.com	Susan Stegman
<b>Flite Line USA</b>	12090 Miramar Pkwy Suite 105 Miramar, FL 33025	USA	(954) 433-5617	www.flitelineusa.com	John Biaggi President
<b>Garrod Hydraulics Inc.</b>	1050 Locust Point Rd. York, PA 17406	USA	(717) 767-6429	www.garrod.com	Brian Hollerbush Sales
<b>Honnen Equipment</b>	5055 E. 72nd Avenue Commerce City, CO 80022	USA	(303) 287-7506	www.honnen.com	Mark Honnen President
<b>KTSDI-Kessler</b>	801 E Middletown Road North Lima, OH 44452	USA	(330) 783-2000	www.ktsdi.com	Ken Timmings Manager
<b>Nord-Lock Inc.</b>	1000 Greg Street Carnegie, PA 15106	USA	(412) 279-1149	www.nord-lock.com	Jason Milburn Marketing
<b>Pro Mac Mfg.</b>	2940 Jacob Road Duncan, BC V9L 6W4	Canada	(250) 746-5181	www.promac.bc.ca	Shelley Woodman
<b>Professional Service &amp; Repair</b>	P O Box 6506 Columbus, GA 31907	USA	(706) 561-8500	www.psrinc.biz	Jeff Johnson Sales
<b>PVE Cranes &amp; Services</b>	P O Box 12529 Jacksonville, FL 32209	USA	(904) 765-6686	www.pveusa.com	Tom Wuerdeman Vice President
<b>Pyramid Parts</b>	9501 Allen Drive Cleveland, OH 44125-4603	USA	(216) 642-9600	www.pyramid-parts.com	Adam Whittaker Product Manager
<b>R Baker &amp; Son</b>	190 Boundary Road Marlboro, NJ 07746	USA	(732) 222-3553	www.rbaker.com	Art Sferlazzo Director of Business Development
<b>Rotor Electric</b>	1385 Main Street North Vancouver, BC V7J 1C4	Canada	(604) 985-7024	www.rotorelevators.com	
<b>Servicios De Carga Salerno (SCS) Miami</b>	#PTX T0222, P O Box 527948, Miami, FL 33152-7948	USA	(507) 231-6866	www.salernocranes.com	Omar Salerno Gonzalez President
<b>TVH</b>	16355 S. Lone Elm Rd. Olathe, KS 66062	USA	(913) 829-1000	www.tvh.com	Eric Briesse Director
<b>W. L. CraneRepair Inc.</b>	5206 N. Main St. Baytown, TX 77521	USA	(281) 839-6950	www.wlcranesales.com	Wayne Long Owner
<b>WHECO Corporation</b>	2989 Kingsgate Way Richland, WA 99354-5311	USA	(800) 937-4772	www.wheco.com	Dave Wood President

## RIGGER TRUCKS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Custom Mobile Equipment</b>	439 E High Street Baldwin City, KS 66006	USA	(785) 594-7474	www.versa-lift.com	Gary Dick President/Owner
<b>Doral Equipment Rental</b>	427 E Stewart Street Milwaukee, WI 53207	USA	(414) 530-0059	www.doralequipmentrental.com	Rob Keelan Vice President
<b>Dyer Equipment</b>	25975 Hwy. 14 Ault, CO 80610	USA	(970) 454-3784	www.heavyhaultrailers.net	Roy V Dyer Owner
<b>HMS Lift</b>	11 Highlander St. St. George, ON NOE 1N0	Canada	(519) 448-1055	www.hmslift.ca	Eric Lavigne Manager
<b>Hydraulic Skidding Systems</b>	12 Highlander Street St. George, ON NOE 1N0	Canada	(519) 448-3919	www.hydraulic skiddingsystems.com	Richard Bisch President/Owner
<b>Lakeshore Industrial</b>	4514 Browns Drive Two Rivers, WI 54241	USA	(920) 793-2680	www.lakeshorefind.com	Cherri Haskell Office Manager
<b>Lift Systems</b>	1505 7th Street East Moline, IL 61244	USA	(309) 764-9842	www.lift-systems.com	Bruce Forster President
<b>Orion Forklift Trucks</b>	45 Shepherd Road Oakville, ON L6K 2G6	Canada	(905) 844-4164	www.orionlifts.com	Spencer Hawkes



<b>Bairstow Lifting Products Co.</b>	1785 Ellsworth Industrial Drive, Atlanta, GA 30318	USA	(404) 351-2600	www.bairstow.com	Robert Bairstow, Jr. President
<b>Baydar &amp; Associates Inc.</b>	60 Walter Havill Drive, Suite 802, Halifax NS B3N 0A9	Canada	(902) 445-2535	www.baydar.ca	Jennifer Vaughan Office Manager
<b>Bilco Wire Rope</b>	1285 Central Ave., Hillside, NJ 07205	USA	(908) 351-7800	www.bilcogroup.com	Barry Lemberg Founder
<b>Bishop Lifting Products, Inc.</b>	125 McCarty Drive, Houston, TX 77029	USA	(713) 674-2266	www.lifting.com	Chris Land Sales Representative
<b>Black Bear Corp.</b>	7688 Carnegie Ave., Fontana, CA 92336	USA	(909) 390-0380	www.blackbearusa.com	Hans Ge Marketing Manager
<b>Boise Rigging Supply</b>	6750 W. Victory Road, Boise, ID 83715	USA	(208) 342-8919	www.boiserigging.com	Scott Black President
<b>Bridon American Corp.</b>	280 New Commerce Blvd, Wilkes-Barre, PA 18706	USA	(570) 822-3349	www.bridonamerican.com	Joseph Budde Sales Director
<b>Brown &amp; Perkins, Inc.</b>	P.O. Box 412, Cranbury, NJ 08152	USA	(609) 655-1150	www.brownandperkins.com	Bill Comly Sales
<b>Cable Cisco</b>	7718 Northport Drive, West Sacramento, CA 95691	USA	(916) 371-6781	www.carpentergigging.com	Bernie Martin President
<b>Cable Moore, Inc.</b>	P.O. Box 4067, Oakland, CA 94614	USA	(510) 436-8000	www.cablemoore.com	Greg Moore Owner
<b>Cableco</b>	9816 Arlee Avenue, Santa Fe Springs, CA 90670	USA	(562) 942-8076	www.cabelcorrigging.com	Greg Bailey Sales
<b>Cableworks, Inc.</b>	58 Highland Drive, P.O. Box 651, Putnam, CT 06260	USA	(860) 928-0475	www.alpindustries.com	John Rauh President
<b>The Caldwell Group</b>	4080 Logistic Parkway, Rockford, IL 61109	USA	(815) 229-5667	www.caldwellinc.com	Darrin Noe Director of Sales
<b>Cargo Control USA</b>	P.O. Box 2806, Sanford, NC 27331	USA	(919) 775-5059	www.cargocontrolusa.com	Denise Godfrey Vice President of Sales
<b>CAROL Crane Rigging &amp; Lifting Technology</b>	P.O. Box 5605, Pasadena, TX 77508	USA	(713) 475-7181	www.ccrilt.com	Kerry Collings Marketing
<b>Carpenter Group</b>	222 Napoleon St., San Francisco, CA 94124	USA	(415) 285-1954	www.carpentergroup.com	Bernie Martin
<b>Cascade Rigging Inc.</b>	9887 SE Mather Road, Clackamas, OR 97015	USA	(503) 722-7500	www.cascaderigginginc.com	Bob Cushman President
<b>CECA LLC</b>	158 Bails Road, Ripley, MS 38663	USA	(662) 316-3722	www.cecaforge.com	Luke Staten CECA Representative
<b>Certex Inc</b>	1110 Lockwood St, Houston, TX 77020	USA	(713) 674-3000	www.certex.com	Chris Black CEO
<b>Certified Slings, Inc.</b>	P.O. Box 180127, Casselberry, FL 32718	USA	(407) 331-6677	www.certifiedslings.com	Dennis Worswick President
<b>Certified Wire Rope &amp; Testing Inc.</b>	1106 4th St., Nisku, Alberta, T9E 8J2	Canada	(780) 955-9395	www.certifiedwirerope.com	Bonnie Carter Vice President of Customer Service
<b>Chicago Hardware &amp; Fixture</b>	9100 Parklane Ave., Franklin Park, IL 60131	USA	(847) 455-6609	www.chicagohardware.com	Jay Richmond National Sales Manager
<b>Cleveland City Forge</b>	46950 State Route 18 West, Wellington, OH 44090	USA	(440) 647-5400	www.clevelandcityforge.com	Shelly Fairchild Division Marketing Manager
<b>Coffing Hoists</b>	2020 Country Club Road, Wadesboro, NC 28170	USA	(704) 694-2156	www.columbusmckinnon.com	Tom Trost Director of Sales- Western U.S.
<b>Columbus McKinnon</b>	205 Crosspoint Parkway, Getzville, NY 14068	USA	(716) 689-5400	www.columbusmckinnon.com	Tom Trust Director of Sales- Western U.S.
<b>Commercial Group Lifting Products</b>	12801 Universal Drive, Taylor, MI 48180	USA	(734) 947-4000	www.cglift.com	Gar Knight President
<b>Continental Chain</b>	7011 Girard Road, Edmonton, Alberta T6B 2C4	Canada	(780) 437-2701	www.continentalchain.com	Ian McClurg President
<b>Contractors &amp; Industrial Supply</b>	P.O. Box 40391, Nashville, TN 37204	USA	(615) 256-8658	www.cisrigging.com	Eric Schiller COO
<b>Coordinated Wire Rope &amp; Rigging</b>	1707 East Anaheim St., Wilmington, CA 90744	USA	(310) 834-8535	www.coordinatedcompanies.com	Bo Kentner Operations Manager
<b>Coordinated Wire Rope of Hawaii, Inc. dba CWR Hawaii</b>	120 Mokauea St., Suite F, Honolulu, HI 96819	USA	(808) 843-2020	www.cwrhawaii.com	David Tavares Manager



## RIGGING GEAR/HARDWARE & WIRE ROPE continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Cortland Company</b>	10633 West Airport Blvd, Suite 300 Stafford, TX 77477	USA	(832) 833-8000	www.cortlandcompany.com	Easton Schlender Technical Sales
<b>Crosby Canada</b>	145 Heart Lake Road, Brampton, ON L6W 3K3	Canada	(905) 451-9261	www.crosby.ca	Colin Basinger National Sales Manager
<b>DCL Mooring &amp; Rigging</b>	4400 North Galvez Street, New Orleans, LA 70117	USA	(504) 944-3366	www.dcl-usa.com	Cody Schnuriger Vice President, Sales and Marketing
<b>Dakota Riggers &amp; Tool Supply</b>	704 East Benson Road, Sioux Falls, SD 57104	USA	(605) 335-0041	www.dakotariggers.com	Ben Kuhns Sales
<b>Delta Rigging &amp; Tools</b>	21525 North Hwy. 288B Angleton, TX 77515	USA	(281) 595-4940	www.deltarigging.com	Anthony Piwonka Vice President, Sales
<b>Denver Wire Rope &amp; Supply</b>	4100 Dahlia St., Denver, CO 80216	USA	(303) 377-5166	www.denverwirerope.com	Edmund Gubanich CEO
<b>Desert Energy Equipment</b>	P.O. Box 13290, Odessa, TX 79768	USA	(432) 381-3321	www.desertenergy.com	Brett Batham President
<b>Detroit Hoist &amp; Crane</b>	6650 Sterling Drive N., Sterling Heights, MI 48312	USA	(800) 521-9126	www.detroithoist.com	Charles Melder Sales Executive
<b>Discount Wire &amp; Sling</b>	4836 N.E. 11th Ave., Ft. Lauderdale, FL 33334	USA	(954) 772-7173	www.discountwireandsling.com	William Davis Owner
<b>Diversified Lifting Systems</b>	4702 Distribution Drive, Tampa, FL 33605	USA	(800) 752-1214	www.diversifiedlifting.com	Billy Crowe President
<b>Doleco USA</b>	290 Pratt St. Meriden, CT 06450	USA	(203) 440-1940	www.doleco-usa.com	Ralph Albato President
<b>Dominion Steel Specialties</b>	5301 Polk St., Building 18, Houston, TX 77023	USA	(713) 678-8141	www.dominionsteel.com	Andy Comeaux General Manager
<b>Durabilt by Durbin</b>	2545 S. 25th Ave. Broadview, IL 60155	USA	(636) 463-1272	www.durabiltusa.com	Martin Kicki Operations
<b>E. M. Blue's Sons</b>	P.O. Box 9521, Houston, TX, 77261	USA	(713) 926-6007	www.emblues.com	Carl Smith President
<b>Ed's Wire Rope &amp; Rigging</b>	11039 I St., Omaha, NE 68137	USA	(402) 614-8811	www.edswirerope.com	Ed Jackson Owner
<b>Elite Sales</b>	9445 S.W. 40th St., Miami, FL 33165	USA	(305) 262-3105	www.elitesalesinc.com	Randy Gonzalez President
<b>Elko Wire Rope &amp; Mining Supply</b>	4280 E. Idaho St., Elko, NV 89801	USA	(775) 777-3824	www.elkowirerope.com	Neely Hammond Manager
<b>Eriez Magnetics</b>	2200 Asbury Road, Erie, PA 16506	USA	(814) 835-6000	www.eriez.com	Dan Zimmerman Director of Business Development
<b>ESCO Corporation</b>	P.O. Box 10123, Portland, OR 97210	USA	(503) 778-6768	www.escocorp.com	Kirk Yoresen Global Product Manager
<b>F &amp; M Mafco/QC21 Lifting Products</b>	9149 Dry Fork Road, Harrison, OH 45030	USA	(513) 367-2151	www.qc21slings.com	Mark Freel Product Specialist
<b>F.D. Lake Company</b>	P.O. Box 8831 3313 Lousma Drive SE, Grand Rapids, MI 49518	USA	(616) 241-5639	www.fdlake.com	Michael Posey General Manager
<b>Feeney Inc.</b>	2603 Union Street, Oakland, CA 94607	USA	(800) 888-2418	www.feeneyinc.com	Katrina Ralston President
<b>First Sling Technology</b>	1125 West Hwy 152, Suite 113, Mustang, OK 73064	USA	(877) 453-4778	www.firstsling.com	Linda Summars President & Owner
<b>Franklin Offshore Americas</b>	1325 South Creek Dr., Suite 300, Houston, TX 77084	USA	(281) 578-3828	www.franklin.com.sg	Marilyn Munoz Assistant Sales Manager
<b>French Creek Production</b>	626 13th St., Franklin, PA 16323	USA	(814) 437-1808	www.frenchcreekproduction.com	Jason Wible President
<b>Fresno Wire Rope &amp; Rigging</b>	2360 S. East Ave. Fresno, CA 93721	USA	(559) 268-8885	www.fresnowirerope.com	Edward Mytych Manager
<b>Gosan USA</b>	1926 Spearing St. Jacksonville, FL 32201	USA	(904) 350-9191	www.gosanusa.com	Rocio Santin President
<b>Groupe Industriel DL</b>	675 Boulevard Lionel-Boulet, Varenes QC J3X 1P7	Canada	(450) 652-5553	www.groupedl.ca	Natalie St-Amant Vice President of Business Development
<b>Gunnebo Johnson Corp.</b>	1240 N. Harvard Tulsa, OK 74115	USA	(918) 832-8933	www.gunnebojohnson.com	Kris Cleveland Senior Vice President

<b>Hanes Supply Inc.</b>	55 James E. Casey Drive, Buffalo, NY 14205	USA	(716) 826-2636	www.hanessupply.com	John Kane Director of Marketing
<b>Hercules SLR</b>	520 Windmill Road, Dartmouth, NS B3B 1B3	Canada	(902) 482-3125	www.herculesslr.com	Chris Giannou President
<b>Hercules Wire Rope &amp; Sling</b>	P.O. Box 1769, Houma, LA 70363	USA	(985) 876-5511	www.herculeswirerope.com	James LeBlanc Manager
<b>Hessville Cable &amp; Sling</b>	1601 Cline Ave., Gary, IN 46406	USA	(800) 779-8466	www.hessvillecable.com	Ken Randall Owner
<b>Holland RFID</b>	1340 Burlington, North Kansas City, MO 64116	USA	(816) 268-5749	www.holland1916.com	Sanders Roth Director
<b>Holloway Wire Rope</b>	14620 E. Pine St., Tulsa, OK 74116	USA	(918) 582-1807	www.hollowaywirerope.com	Curt Tuggie Owner
<b>Horizon Cable Service</b>	45 North Cooley Drive, Oklahoma City, OK 73127	USA	(405) 789-7125	www.horizoncableinc.com	Bruce Miller Owner
<b>HWP Rigging</b>	1017 Olive Street, Suite 1000 C St. Louis, MO 63101	USA	(314) 436-9019	www.hwprigging.com	
<b>Ideal Wire Rope</b>	13101 S. Alameda St., Compton, CA 90222	USA	(310) 604-1853	www.idealwirerope.com	Bill Adams Technical Sales
<b>Indusco Wire Rope &amp; Supplies</b>	1200 W. Hamburg St., Baltimore, MD 21230	USA	(800) 727-0665	www.induscowire.com	Gayle Protzko VP - General Manager
<b>Industrial Rigging &amp; Supply</b>	1-25 McLaren Ave., Cambridge, ON N1R 8K9	Canada	(519) 624-9697	www.industrialrigging.ca	Greg Kockrow Plant Manager
<b>Industrial Splicing &amp; Sling</b>	1842 North 109 East Ave., Tulsa, OK 74116	USA	(918) 835-4452	www.industrialsplicing.com	Mike Parham Sales Manager
<b>Industries Lam-E Inc.</b>	1050 Boul. Charest Quest, Quebec, QB G1N 0A3	Canada	(418) 652-9759	www.lam-e.com	Martin Auclair
<b>Intercon Enterprises</b>	1125 Fir Ave., Blaine, WA 98230	USA	(800) 665-6655	www.intercononline.com	A. J. Schenk Vice President of Sales
<b>J.C. Renfro &amp; Sons</b>	1926 Spearing St., Jacksonville, FL 32201	USA	(904) 356-4181	www.jcrenfroe.com	Joe Pless Marketing Manager
<b>J. Henry Holland</b>	5931 Thurston Ave., Virginia Beach, VA 23455	USA	(757) 460-3300	www.jhenryholland.com	Larry Lusk VP - General Manager
<b>Jergens, Inc.</b>	15700 S. Waterloo Road, Cleveland, OH 44110	USA	(877) 486-1454	www.jergensinc.com	Bob Kucinic National Sales Manager
<b>John A. Batchelor Company</b>	5922 Triumph St., Commerce, CA 90040	USA	(323) 262-4125	www.batchelorinc.com	John A. Batchelor, Jr. Owner
<b>John Sakash Company</b>	800 Walnut St., Elmhurst, IL 60126	USA	(630) 833-3940	www.johnsakash.com	Bill Sakash President
<b>Jordan Wire Rope</b>	2400 W. 56th, Odessa, TX 79764	USA	(432) 366-6040		Andy Smith
<b>Jtagz</b>	P.O. Box 1084, Yeppoon, QLD 4703	Australia	+61 (1) 49302806	www.jtagz.com	Lauren Keen
<b>Kennedy Wire Rope &amp; Sling</b>	4202 Dividend Drive, San Antonio, TX 78219	USA	(210) 527-0555	www.kwrs.com	Frank Garcia Branch Manager
<b>Kentuckiana Wire Rope &amp; Sling Co.</b>	3335 Industrial Parkway, Jeffersonville, IN 47130	USA	(812) 282-3667	www.kwrinc.com	John Fireovid Operations Manager
<b>Knight Equipment</b>	P.O. Box 93, 717 N. 15th St., Bowling Green, MO 63334	USA	(573) 324-3212	www.knighteq.com	Ray Knight Owner
<b>Kulkoni</b>	502 Garden Oaks Blvd. Houston, TX 77018	USA	(713) 691-1234	www.kulkoni.com	Michael Rothermund Vice President of Sales
<b>KWS.</b>	P.O. Box 470487, Tulsa, OK 74147	USA	(539) 367-2274	www.kwschain.com	Elizabeth Roberts VP Operations
<b>Laclede Chain Manufacturing</b>	1549 Fenpark Drive, Fenton, MO 63026	USA	(636) 680-2320	www.lacledechain.com	Greg Luerkens
<b>Lamco Slings &amp; Rigging I.</b>	4960 41st Street Court, Moline, IL 61265	USA	(309) 764-7400	www.lamcoinc.com	William Lambrecht Owner
<b>Landmann Wire Rope Products</b>	6500 Goodyear Road, Benicia, CA 94510	USA	(707) 748-1700	www.landmannwire.com	Rick Colvin President
<b>Lift-All Company</b>	1909 McFarland Dr. Landisville, PA 17538	USA	(800) 909-1964	www.lift-all.com	
<b>Liftex Corporation</b>	780 Falcon Circle, Suite 105 Warminster, PA 18974	USA	(215) 957-9180	www.liftex.com	Stephen Keller National Sales Manager
<b>Lifting &amp; Rigging Specialty Sales, Inc.</b>	2100 West Drive, Greensburg, PA 15601	USA	(724) 552-0083	www.thechainman.com	Harry Coulter Owner
<b>Lift-It Manufacturing Company</b>	1603 W. 2nd St., Pomona, CA 91766	USA	(909) 469-2252	www.lift-it.com	Mike Gelskey CEO

## RIGGING GEAR/HARDWARE & WIRE ROPE *continued*

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>LiftPRO International</b>	5959 Seville Road, Duluth, MN 55811	USA	(218) 729-9211	www.liftpro.com	Fred Ambli Owner
<b>Linton Rigging Gear Supplies</b>	6819 Hwy 311, Sellersburg, IN 47172	USA	(812) 246-3515	www.lrgsupplies.com	Ray Linton Owner
<b>LGH</b>	9925 S. Industrial Drive, Bridgeview, IL 60455	USA	(708) 598-4727	www.rentlgh.com	Patrick Clark National Rental Support
<b>Lone Star Rigging</b>	4175 W. Cardinal Drive, Beaumont, TX 77705	USA	(409) 842-2263	www.lonestarrigging.com	Chris Richardson Owner
<b>LUBE-A-BOOM</b>	8151 River Bay Drive East, Indianapolis, IN 46240	USA	(317) 501-1104	www.lubeaboom.com	Jo Roberts VP of Operations
<b>Magna Lifting Products</b>	P.O. Box 2290, Blaine, WA 98231	USA	(360) 392-0432	www.magnalifting.com	Philip Gardner President
<b>Manchester Sling Company</b>	5600 Surrey Square, Houston, TX 77017	USA	(800) 392-5510	www.manchestersling.com	Matt Barlow Sales Manager
<b>Marcal Rope &amp; Rigging</b>	P.O. Box 477, 1862 E. Broadway, Alton, IL 62002	USA	(618) 462-0172	www.marcalrigging	Tom Miller President
<b>Marine &amp; Industrial Supply</b>	150 Virginia St., Mobile, AL 36652	USA	(251) 438-4617	www.marineandindustrial.com	Leroy Benton, III President
<b>Marine Rigging</b>	552 Beauregard St., Mobile, AL 36603	USA	(251) 432-1212	www.marinerigging.com	Kinley Bell President
<b>Mazzella Lifting Technologies</b>	21000 Aerospace Pkwy, Cleveland, OH 44142	USA	(440) 239-7000	www.mazzellalifting.com	Bill Franz
<b>Memphis Chain &amp; Cable Services LLC</b>	581 Pear Ave., Memphis, TN 38107	USA	(901) 524-1100		Steve McAlpin Owner
<b>Metro Wire Rope Corporation</b>	553 Lehigh Ave., Union, NJ 07083	USA	(908) 964-3690	www.metrowirerope.com	Jack Gibbons President
<b>Miami Cordage/Florida Wire &amp; Rigging Works</b>	2475 Northwest 38th St., Miami, FL 33142	USA	(305) 636-3000	www.miamicordage.com	Fran Hoffman Marketing Director
<b>Mid America Industries</b>	7701 St. Clair Ave., East St. Louis, IL 62203	USA	(618) 398-5221		Greg Brown Manager
<b>Midco Sling &amp; Cable</b>	9101 West John Carpenter Fwy, Dallas, TX 75247	USA	(214) 688-0444	www.midcosling.com	Doug Dry Owner
<b>Midwest Rigging Supply</b>	2900 Airpark Drive Owensboro, KY 42301	USA	(270) 663-1331	www.mwrigging.com	
<b>Mile High Rigging, Inc.</b>	6400 C. Stapleton Drive S., Denver, CO 80216	USA	(303) 322-3277	www.milehighrigging.com	Steve Cook Owner
<b>Mill Valley Splicing, Inc.</b>	P.O. Box 615, Belchertown, MA 01007	USA	(413) 323-6307	www.millvalleysplicing.com	James Boyko President
<b>Miller Products</b>	100A Sturbridge Road, Charlton, MA 01507	USA	(508) 248-3941	www.millerproducts.net	Paul Jankovic
<b>Millfield Enterprises Mfg. Ltd/ Wirelock</b>	16 Shelley Road Newburn Ind. Estate, Newcastle-Upon-Tyne, NE15 9RT	UK	+44 191 2648541	www.millfield-group.co.uk	John Dodd Technical Support
<b>Modulift UK</b>	11 New Fields Business Park, UK Stinsford Road, Poole, Dorset BH17 0NF		+44 1202 621511	www.modulift.com	Sarah Spivey Managing Director
<b>Moore Sales</b>	2539 Data Drive, Louisville, KY 40299	USA	(502) 491-6868	www.mooresalesinc.net	Steve Moore Owner
<b>Muncy Industries</b>	P.O. Box 205, Muncy, PA 17756	USA	(570) 649-5188	www.muncyindustries.com	Ophelia Fetter
<b>Murdock Webbing Company</b>	27 Foundry St., Central Falls, RI 02863	USA	(800) 375-2052	www.murdockweb.com	Ray Clarke Vice President of Sales
<b>Napco &amp; Associates</b>	P.O. Box 826, Winona, MN 55987	USA	(507) 452-5424		Steve Napieralski Owner
<b>National Industrial Supply</b>	1201 Rochester Road, Troy, MI 48083	USA	(248) 588-1828	www.nischain.com	Mary Brett Rigging Equipment Inspection Expert
<b>Nelson Wire Rope Corp.</b>	3051 Penn Avenue, Hatfield, PA 19440	USA	(215) 721-9333	www.nelsonwirerope.com	Richard Nelson President
<b>New England Crane</b>	2 Cedar St., Lewiston, ME 04240	USA	(888) 450-0477	www.newenglandcrane.com	Scott Harding Vice President
<b>New Haven Moving Equipment Co.</b>	13571 Vaughn St., San Fernando, CA 91340	USA	(213) 749-8181	www.newhaven-usa.com	Larry Levine Managing Principal



<b>Newco Manufacturing</b>	13531 Wyandotte St., Kansas City, MO 64145	USA	(816) 942-2860	www.newcomfg.com	Erica Ryles General Manager
<b>Newell Davis Co. Inc.</b>	2962 N. Kerr Ave., Wilmington, NC 28405	USA	(910) 762-3500	www.newelldavis.com	Teresa McGee President & CEO
<b>Norex Manufacturing Co. Ltd.</b>	P.O. Box 2951, Sumas, WA 98295	USA	(604) 888-2100		Norbert Schottko President
<b>Northern Metalic Sales (FSJ) Ltd</b>	10407 Alaska Road, Fort St. John, BC V1J 1B1	Canada	(250) 785-6655	www.northernmetalicsfsj.com	Bruce Mitchell General Manager
<b>Oceanside Equipment Ltd</b>	30 Akerly Blvd., Dartmouth, NS B3B 1N1	Canada	(902) 468-4844		Greg Maloney President
<b>Olsen Chain &amp; Cable</b>	P.O. Box 970, Cokato, MN 55321	USA	(320) 286-2187	www.olsenchain.com	Dave Camp Vice President
<b>Omaha Slings</b>	4406 South 89th St., Omaha, NE 68127	USA	(402) 331-0911	www.omahaslings.com	Daniel Papst President
<b>Pacific Cargo Control</b>	18200 S.W. Teton Ave., Tualatin, OR 97062	USA	(800) 821-8431	www.pacificcargo.com	Ken Webb Corporate Sales
<b>Pacific Industrial Supply</b>	1231 S Director St., Seattle, WA 98108	USA	(206) 682-2100	www.pacificindustrial.com	Lee Frazier Owner
<b>Pacific West Wire Rope</b>	6417 Bandini Blvd., City of Commerce, CA 90040	USA	(323) 724-7724	www.pacwestwirerope.com	Dale Kreinkamp CEO
<b>Pacific-Gulf Wire Rope, Inc.</b>	1504 Engineers Road, Belle Chasse, LA 70037	USA	(504) 341-0066	www.pacificgulfwirerope.com	Keith Plaisance President & Owner
<b>Paducah Rigging</b>	4150 Cairo Road, Paducah, KY 42001	USA	(270) 443-3863	www.paducahrigging.com	Alex Edwards President
<b>Page Wire Rope &amp; Slings, Inc.</b>	101 Gallier St., Lafayette, LA 70506	USA	(337) 234-0353	www.pagewirerope.com	Don Page President
<b>Peerless Industrial Group</b>	P.O. Box 5349, 1416 E Sanborn St., Winona, MN 55987	USA	(800) 533-8056	www.peerlesschain.com	Christy Kutchma
<b>Pewag</b>	600 W Crossroads Pkwy., Bolingbrook, IL 60440	USA	(800) 526-3924	www.pewagchain.com	Mike Uhrenbacher President
<b>Pfeifer Wire Rope</b>	600 Industry Drive, Hampton, VA 23661	USA	(757) 825-2544	www.pfeifer.us.com	Michael Pels Key Account Manager
<b>Phoenix Wire Rope &amp; Rigging</b>	700 Cedar Bay Road, Jacksonville, FL 32218	USA	(904) 367-1842	www.phoenixrope.net	Mark Thomas President
<b>Precision Installations &amp; Services</b>	30660 8 Mile Road, Farmington, MI 48336	USA	(248) 478-6353	www.precisionriggers.com	Thomas Earle Owner
<b>Premier Wire Rope</b>	5048 Timber Creek Drive, Houston, TX 77017	USA	(713) 979-5300	www.premierwirerope.com	Steve Brewer Vice President of Sales & Marketing
<b>Python America/ASC</b>	1406 W 175th St., East Hazel Crest, IL 60429	USA	(708) 647-4900	www.ascindustries.com	Tony Fastuca Vice President
<b>Rasmussen Equipment</b>	8727 5th Avenue S., Seattle, WA 98108	USA	(206) 762-3700	www.rasmussenco.com	Dave Duffy Rigging Manager/ Outside Sales
<b>Redaelli Wire Ropes</b>	Via A Volta 16, Cologno M.se, Milano 20093	Italy	(864) 414-9348	www.redaelli.com	Paolo Venturini Area Sales Manager
<b>Reel-O-Matic, Inc</b>	6408 S. Eastern Ave., Oklahoma City, OK 73149	USA	(405) 672-0000	www.reelomatic.com	Don Moreau
<b>Ribbon Webbing Corp.</b>	4711 W. Division St., Chicago, IL 60651	USA	(773) 287-1221	www.ribbonwebbing.com	Daniel Perkins Sales
<b>Richerson and Associates</b>	P.O. Box 8540, Mandeville, LA 70433	USA	(985) 867-1415	www.richersonrep.com	Oscar Richerson Owner
<b>Rigging &amp; Tools</b>	2031 Lee Ave., Bismark, ND 58504	USA	(701) 224-1122	www.riggingandtools.com	Brad Olsen Owner
<b>Rockford Rigging ,Inc.</b>	5401 Main Sail Drive, Roscoe, IL 61073	USA	(815) 877-0007	www.rockfordrigging.com	John Malcottem President
<b>Rocky Mountain Wire Rope &amp; Rigging</b>	2421 S. 2570 West, Salt Lake City, UT 84119	USA	(801) 972-4972	www.rmwr.co	Rob Sutphin General Manager
<b>Roughrider Rigging, Ltd.</b>	118 Faithful Crescent, Saskatoon, SK S7K 8H8	Canada	(306) 651-1834	www.saturnind.com	Gerry Wiederhold
<b>Rouster Wire Rope &amp; Rigging</b>	102 Ridge St., Mabscott, WV 25871	USA	(304) 252-6031	www.rousterwrr.com	Chuck Farmer
<b>RUD</b>	P.O. Box 367, Hiawatha, IA 52233	USA	(319) 294-0001	www.rud.com	Katie Eliason

RIGGING GEAR/HARDWARE & WIRE ROPE *continued*

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Safe 'N Secure USA</b>	2673 Freewood Drive, Dallas, TX 75220	USA	(214) 358-4565	www.safensecureusa.com	Ken Webb Sales & Marketing
<b>Safety Clamps</b>	233 Santa Barbara Ave., Jacksonville, FL 32254	USA	(800) 456-2809	www.safetyclamps.com	Scott Griffin Owner
<b>Safety Sling Company</b>	909 Fulton Street, Pittsburgh, PA 15233	USA	(412) 231-6684	www.safetysling.com	Tom Talkowski Vice President
<b>Sam Winer Motors</b>	3417 E. Waterloo Road, Akron, OH 44312	USA	(330) 628-4881	www.samwinermotors.com	Sid Zetzer Finance Executive
<b>Samsel Supply Co.</b>	1285 Old River Road, Cleveland, OH 44113	USA	(800) 892-8012	www.samselsupply.com	Kathy Petrick President
<b>Samson Rope Technologies</b>	2090 Thornton Street, Ferndale, WA 98248	USA	(360) 384-4669	www.samsonrope.com	Michelle Jarvis Marketing Strategy Manager-Industrial
<b>Saturn Industries Ltd.</b>	37 Sylvan Way, Winnipeg, Manitoba R2R 1V9	Canada	(204) 633-1529	www.saturnind.com	John Lang
<b>Sea-Fit</b>	4745 River Road, Jefferson, LA 70121	USA	(504) 736-9477	www.sea-fit.com	Tyrus Smith Marketing Manager
<b>Sea-Land Distributors</b>	4745 River Road, Jefferson, LA 70121	USA	(504) 736-9477	www.sea-landdistributors.com	Michael Hall Owner & President
<b>SG Consulting</b>	3709 Clearwater Lane, Brookhaven, PA 19015	USA	(610) 876-3445	www.sg-consultants.com	Steven Guydos President
<b>Sharrow Lifting Products</b>	301 Country Road E2 West, New Brighton, MN 55112	USA	(651) 489-1341	www.ccsharrow.com	Bob Downs President
<b>Sheave Source</b>	P.O. Box 100368, 4264 Underwood Industrial Drive, Birmingham, AL 35210	USA	(205) 956-7005	www.sheavesource.com	Pat Cowart Owner
<b>Sheaves Inc.I</b>	195 Leonard Drive, Groton, CT 06340	USA	(866) 344-6774	www.esheaves.com	Stew Walton Owner
<b>Silver State Wire Rope &amp; Rigging</b>	8740 S. Jones Blvd., Las Vegas, NV 89139	USA	(702) 597-2010	www.sswr.net	Pete Rogers President
<b>Sling Tech</b>	124 Brock St., Barrie, ON L4N 2M2	Canada	(705) 719-4899	www.slingtech.com	Mandy Rij Sales & Marketing Manager
<b>Sling-Choker Manufacturing Ltd.</b>	605 Rennie Street, Hamilton, ON L8H 3P8	Canada	(905) 545-5025	www.slingchoker.com	John Walsh Export Manager
<b>Slingmax Rigging Solutions</b>	205 Bridgewater Road Aston, PA 19014	USA	(610) 485-8500	www.slingmax.com	Dan Ross Marketing Manager
<b>Solutio LLC</b>	14819 S.W. Frwy, Suite 301-325, Sugar Land, TX 77478	USA	(281) 773-5001		Jay Zgarba
<b>Source Atlantic Hydraulics, Rigging and Rubber</b>	P.O. Box 967, 331 Chelsey Drive, New Brunswick E2L 4E4	Canada	(506) 648-2620	www.sourceatlantic.ca	Peter Wilson
<b>Southeast Rigging, Inc.</b>	1645 Jessie St., Jacksonville, FL 32206	USA	(904) 355-3423	www.southeastrig.com	Dan Giannattasio President
<b>Southern Weaving Co.</b>	P.O. Box 487, Greenville, SC 29602	USA	(864) 240-9325	www.southernweaving.com	Susan Crow-Granger
<b>Southern Wire Corp.</b>	8045 Metro Road, Olive Branch, MS 38654	USA	(662) 893-4644	www.southernwire.com	Andrew Hall Vice President and General Manager
<b>Southwest Ocean Services</b>	5721 Harvey Wilson Drive, Houston, TX 77020	USA	(713) 671-9101	www.swos.net	Conrad Reynolds Sales Manager
<b>SpanSet, Inc.</b>	3125 Industrial Drive, Sanford, NC 27332	USA	(501) 658-9665	www.spanset-usa.com	Todd Sharp
<b>Suncor Stainless</b>	70 Armstrong Road, Plymouth, MA 02360	USA	(508) 732-9191	www.suncorstainless.com	Loye Young
<b>Superlift Wire Ropes USA, LLC</b>	836 Registry Terrace, Kennesaw, GA 30152	USA	(678) 575-5182		Terry Miller
<b>Tandemloc, Inc.</b>	824 Hwy 101, Havelock, NC 28532	USA	(800) 258-7324	www.tandemloc.com	John DiMartino President
<b>Tennessee Sling Center</b>	3501 Clio Ave., Chattanooga, TN 37407	USA	(423) 634-9005	www.tennesseeslingcenter.com	Terry Roderick General Manager
<b>TEUFELBERGER Holding AG</b>	Vogelweiderstrasse 50, 4600 Wels	Austria	+43 7242 615-0	www.teufelberger.com	DI Stefan Punchner Product Manager
<b>The Crosby Group</b>	2801 Dawson Road Tulsa, OK 74110	USA	(800) 772-1500	www.thecrosbygroup.com	Ron Vanderslice Marketing Director

<b>The Indusco Group</b>	1200 West Hamburg St., Baltimore, MA 21230	USA	(800) 727-0665	www.induscogroup.com	Keith Dennis General Manager
<b>The Rigging Box, Inc.</b>	8480 Terminal Road, Lorton, VA 22079	USA	(703) 339-7575	www.theriggingbox.com	Selina Conrad President & Manager
<b>The Ulven Companies/Skookum</b>	P.O. Box 280, Hubbard, OR 97032	USA	(503) 651-3175	www.ulvencompanies.com	Brent Nasset
<b>Timco, Inc.</b>	2 Greentown Road, Buchanan, NY 10511	USA	(905) 691-7102	www.timco-eng.com	Dave Dunn Sales Manager
<b>Tractel Inc., Div of Griphoist</b>	1615 Warden Ave., Toronto, ON M1R 2T3	Canada	(800) 465-4738	www.tractelnorthamerica.com	Steve Gallagher Marketing Manager
<b>Trinity Sling Authority, Inc.</b>	2201 E. Loop 820 North, Fort Worth, TX 76118	USA	(817) 589-2404	www.trinitysling.com	Bruce Harten Owner
<b>Tri-State Wire Rope &amp; Supply</b>	2425 West Bridger Road, Salt Lake City, UT 84104	USA	(801) 954-0300	www.tristatewirerope.com	Mike Lister President
<b>Tulsa Chain Inc.</b>	12820 S. Memorial Drive, Unit 126, Bixby, OK 74008	USA	(918) 392-2829	www.tulsachain.com	Mike Robertson President
<b>Ultra-Safe, Inc.</b>	2339 N. 34th Drive, Phoenix, AZ 85009	USA	(602) 484-7713	www.ultrasafeusa.com	Marty Sharp President
<b>Unalloy / IWRC</b>	737 Oval Court, Burlington, ON L7L 6A9	Canada	(905) 790-3112	www.unalloy-iwrc.com	Paul Groeneveld General Manager
<b>Union Sling Company</b>	P.O. Box 565301, Dallas, TX 75356	USA	(800) 999-6207	www.unionsling.com	Stella Emerson HR Executive
<b>Unirope</b>	3070 Universal Drive, Mississauga, ON L4X 2CB	Canada	(905) 624-5131	www.unirope.com	Knut Buschmann President
<b>Unitex Group USA</b>	P.O. Box 455, 104 Hurrican Creek Road, Piedmont, SC 29673	USA	(864) 846-8690	www.unitexusa.com	Dan Posa
<b>USHA Martin Americas, Inc.</b>	701 Plastics Ave., Houston, TX 77020	USA	(713) 676-1800	www.ushamartin.com	Sunil Sadani Vice President of Commercial
<b>Van Beest USA LLC</b>	P.O. Box 96529, 1357 Sheffielde Blvd., Houston, TX 77015	USA	(713) 674-5753	www.vanbeest.nl	Chris Keffer
<b>Verope USA</b>	11018 Pleasantville Drive, Houston, TX 77029	USA	(832) 831-0132	www.verope.com	Chase Richter Sales Manager
<b>Visco Inc.</b>	P.O. Box 67127, Lincoln, NE 68506	USA	(402) 489-6492	www.viscoinc.com	Larry Isaacson Owner
<b>Voto Manufacturers Sales Company</b>	P.O. Box 1299, 500 N. Third St., Steubenville, OH 43952	USA	(740) 282-3621	www.votosales.com	Janie Mayle President
<b>Washington Wire Rope</b>	8411 Irvington Blvd., Houston, TX 77022	USA	(800) 332-2376	www.wwirerope.com	Robert Tenorio Sales
<b>WESCO Industries</b>	Unit 1, 9663 - 199 A St., Langley, BC V1M 2X7	Canada	(604) 881-3000	www.wescovan.com	Kaz Arai President
<b>West Coast Wire Rope &amp; Rigging Inc.</b>	2900 N.W. 29th Ave., Portland, OR 97210	USA	(800) 275-0482	www.wcwr.com	Steve Hughes
<b>West Equipment Co., Inc.</b>	1545 E. Broadway, Toledo, OH 43605	USA	(419) 698-1601	www.thewestequipment.com	Bernard Erdmann President
<b>Western Sling &amp; Supply Co.</b>	P.O. Box 208, Sedalia, CO 80135	USA	(303) 688-0978	www.westernsling.com	Stan Truitt President
<b>Wireco</b>	2400 W 75th St. Prairie Village, KS 66208	USA	(816) 270-4700	www.wireco.com	Blake Chandler SVP, Global Channel Management
<b>Wire Rope Industries</b>	5501 Trans-Canada Hwy., Pointe-Claire, QC H9R 1B7	Canada	(514) 426-6647	www.wirerope.com	Vladimir Miladinovic Manager of Business Intelligence
<b>Wire Rope Technology</b>	Grunenthaler, 40a, 52072 Aachen	Germany	+49 241 173147	www.ropetechnology.com	Roland Verreet Owner
<b>Wirerope Works, Inc.</b>	100 Maynard St., Williamsport, PA 17701	USA	(570) 327-4206	www.wvrope.com	Bill Austin Marketing Director
<b>Wisconsin Lifting Specialists, Inc.</b>	P.O. Box 1621, 2033 W. St. Paul Ave., Milwaukee, WI 53201	USA	(414) 342-7475	www.masterrigging.com	Dave Cappell Owner
<b>Worldwide Enterprises, Inc.</b>	70 Commercial Way, East Providence, RI 02914	USA	(888) 297-3900	www.wvwirerope.com	Jack Petrone Owner
<b>Yale Cordage</b>	77 Industrial Park Road Saco, ME 04072	USA	(207) 282-3396	www.yalecordage.com	Bill Putnam President



RIGGING GEAR/HARDWARE & WIRE ROPE *continued*

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Yarbrough Cable Service</b>	P.O. Box 70184, 950 Stage Ave., Memphis, TN 38107	USA	(800) 395-5438	www.yarcable.com	Frederick Daniel Merrill
<b>Yoke Inc.</b>	12850 E. Florence Ave., Sante Fe Springs, CA 90670	USA	(562) 903-1409	www.yoke.net	Lily Gu

## SAFETY EQUIPMENT AND PRODUCTS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Allied Safety Systems</b>	5224 W State Rd Sanford, FL 32771	USA	(407) 321-0722	www.signalarminc.com	Lance Burney Owner
<b>CM Labs</b>	645 Wellington Street Montreal, Quebec, H3C 1T2	Canada	(514) 287-1166	www.cm-labs.com	Lisa Barbieri VP Marketing & Product Management
<b>Custom Crane Solutions</b>	P O Box 581 Grove City, OH 43123-0581	USA	(614) 610-4324	www.ccranesolutions.com	Darrin Caldwell Consultant
<b>Dr. Shrink, Inc.</b>	315 Washington St Manistee, MI 49660	USA	(231) 723-2685	www.dr-shrink.com	Michael Stenberg President
<b>Eartec Co.</b>	145 Dean Knauss Drive Narragansett, RI 02882	USA	(401) 782-4966	www.eartec.com	Leigh O'Connor Marketing Manager
<b>Etiflex Corp</b>	2500 E Hallandale Beach Boulevard Hallandale Beach, FL 33309	USA	(305) 824-9078	www.etiflex.com	Alicia Margulis Vice President
<b>GoLight Inc.</b>	37146 Old Highway 17 Culbertson, NE 69024-8226	USA	(308) 278-3131	www.golight.com	Jeff Shaddock Industrial Service Manager
<b>Infochip Systems Inc.</b>	#203, 1122- 3rd Ave South, Lethbridge, AB T1J 0J6	Canada	(877) 747-2448	www.infochip.com	Tom Bamford Owner
<b>Insulatus Inc.</b>	708 Marks Road, Ste B Valley City, OH 44280	USA	(216) 925-5387	www.insulatus.com	Jonathan Mitchell Sales Manager
<b>Keytroller</b>	3907 W. Martin Luther King Blvd, Tampa, FL 33614	USA	(813) 877-4500	www.keytroller.com	Terry Wickman
<b>Lynn Safety</b>	367 Civic Dr, Ste 8 Pleasant Hill, CA 94523	USA	(925) 609-7646	www.lynnssafety.com	Nancy Hadley Marketing Director
<b>Moore Sales Inc.</b>	2539 Data Drive Louisville, KY 40299	USA	(502) 491-6868	www.mooreSalesinc.net	Steve Moore Owner
<b>MTS Sensors</b>	3001 Sheldon Drive Cary, NC 27513	USA	(919) 677-2315	www.mtssensors.com	Brian Cox Marketing Manager
<b>National Truck Services Group</b>	1622 N Black Canyon Hwy Phoenix, AZ 85009	USA	(602) 944-5999	www.gontsg.com	Nicole Wendt Senior Account Manager
<b>Orlaco Products B.V. North America</b>	33 Confederate Avenue Jasper, GA 30147	USA	(706) 301-9227	www.orlaco.com	Peter Dove Account Manager
<b>Pacific Systems Solutions</b>	330 Uluniv St, Ste C Kailua, HI 96734	USA	(804) 869-2140	www.hookcam.com	David Catanzaro CEO
<b>Safety Resources Unlimited, Inc.</b>	4800 S.W. 20th Street Oklahoma City, OK 73128	USA	(405) 681-0407	www.sruinc.org	Jennifer Sale President
<b>Sigalarm</b>	4150 St. John's Parkway Suite 1002 Sanford, FL 32711	USA	(407) 321-0722	www.sigalarminc.com	Lance Burney President
<b>SMIE</b>	151-217 Voie H Impasse des Bruyères, 06370 Mouans-Sartoux	France	+33 182770070	www.smie.com	Jean-Charles Delplace CEO
<b>Tech Safety Lines</b>	3204 Skylane Dr, Ste D Carrollton, TX 75006	USA	(214) 987-4680	www.techsafetylines.com	Brent Wise COO
<b>Tecsis GmbH</b>	Carl-Legien-Strasse 40 Offenbach am Main, 63073	Germany	49-69-5806-9480	www.tecsis.de	Matthias Winkel Sales
<b>The Center for Construction Research and Training</b>	8484 Georgia Ave. Suite 1000 Silver Spring, MD 20910	USA	(301) 495-8523	www.cpwr.com	Mary Watters Director of Communications
<b>The Equipment Lock Co.</b>	P O Box 4308 Winchester, VA 22604	USA	(540) 722-1011	www.equipmentlock.com	Janene Ferris Marketing Manager
<b>Transportation Safety Apparel</b>	148 Cardinal Street Hilton Head, SC 29926 Specialist	USA	(843) 686-4046	www.tsasafety.com	Rick Norton Large Account
<b>Unimar</b>	3195 Vickery North Syracuse, NY 13212	USA	(315) 579-3777	www.unimar.com	Thad Fink President

## SOFTWARE - LIFT PLANNING/FLEET MANAGEMENT

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>A1A Software</b>	1577 S. 8th St. Fernandina Beach, FL 32034	USA	(904) 430-0355	www.A1ASoftware.com	Tawnia Weiss President
<b>Alert Management Systems</b>	617 N 17th St., Suite 250, Colorado Springs, CO 80904	USA	(719) 634-7755	www.alert-ims.com	Kara Longmire President/CEO
<b>AnyDATA Corp</b>	5 Oldfield Irvin, CA 92618	USA	(949) 900-6040	www.anydata.com	Anne Simons
<b>Avontus Software Corp.</b>	2150 Shattuck Ave, Suite 750 Berkeley, CA 94704	USA	(800) 848-1860	www.avontus.com	Ali Hajighafouri Global Sales Director
<b>Cervis, Inc.</b>	170 Thorn Hill Road Warrendale, PA 15086	USA	(724) 741-9000	www.cervisinc.com	Norman Burch Business Development Manager
<b>CIE-Tech Inc.</b>	5990 Auteuil Avenue Brossard, QC J4Z 1N2	Canada	(450) 923-1458	www.loadxpert.com	Cedric Guerrier Sales & Marketing
<b>Computer Ease</b>	6460 Harrison Ave, Ste 200 Cincinnati, OH 45247	USA	(800) 544-2530	www.construction-software.com	Amy Fox Vice President
<b>Critigen</b>	6161 S Syracuse Way Greenwood Village, CO 80111	USA	(303) 7060990	www.critigen.com	Ken Hill Sales
<b>Distributor Computer Systems</b>	623 Fellowship Road Mt Laurel, NJ 08054	USA	(856) 813-1750	www.dcs-success.com	Brian Campbell Director of Marketing
<b>EvokedSet Limited</b>	Davidson House, Forbury Square, Reading, Berkshire RG1 3EU	UK	+44 (0) 844 870 8025	www.evokedset.com	Nicky Denovan (Davis) Director
<b>Fleet Cost &amp; Care</b>	865 S Fort Street Detroit, MI 48217	USA	(800) 281-9445	www.fleetcostcare.com	Jeff Curran President
<b>Fleet Management Solutions Inc.</b>	3426 Empresa Dr, Ste 100, San Luis Obispo, CA 93401	USA	(805) 787-0508	www.fmsgps.com	Mike Jarvinen VP Marketing
<b>Genisys Software Inc.</b>	8601 73rd Ave N - Suite 21, Brooklyn Park, MN 55428	USA	(763) 391-6133	www.genisys.com	Ray Bonestroo President
<b>Haag Engineering Co.</b>	625 Industrial Blvd. Sugar Land, TX 77478-2819	USA	(281) 313-9700	www.haagengineering.com	Dustin Childress Assistant Vice President
<b>Hook Cam / Pacific Solutions</b>	330 Uluniv St, Ste C Kailua, HI 96734	USA	(804) 869-2140	www.hookcam.com	Emily B. Hayne Marketing Manager
<b>InfoChip Systems Inc.</b>	111 Northwood Circle Wetaskiwin, AB T9A 3L4	Canada	(877) 747-2448	www.infochip.com	Chris Gelowitz President
<b>LiftPlanner Software</b>	105 Geneva Blvd Burnsville, MN 55306	USA	(952) 435-6126	www.liftplanner.com	Jim Meehan Owner
<b>McLeod Software</b>	2550 Acton Road Birmingham, AL 35243	USA	(877) 362-5363	www.McLeodSoftware.com	Rick Halbrooks Vice President of Sales
<b>N4 Systems Inc.</b>	111 Queen Street East, Suite 240, Toronto, ON M5C 1S6	Canada	(647) 477-6975	www.n4systems.com	Somen Mondal Vice President of Sales & Marketing
<b>Netarus</b>	4855 Brookside Ct. Unit B Norfolk, VA 23502	USA	(757) 819-4600	www.hoistcam.com	Chris Machut Chief Technology Officer
<b>Orion Software</b>	6000 Cote-des-Neiges, Suite 240, Montreal, Quebec H3S 1Z8	Canada	(514) 484-9661	www.orion-soft.com	Andre Gilbert President
<b>PeopleNet</b>	4400 Baker Road Minnetonka, MN 55343	USA	(888) 346-3486	www.peoplenetonline.com	Brian McLaughlin President
<b>Point of Rental Software</b>	1901 N State Hwy 360, Ste 340, Grand Prairie, TX 75050	USA	1-(800)-944-7368	www.point-of-rental.com	Greg Bennett Vice President of Sales
<b>ProMiles Software</b>	P O Box 398 Bridge City, TX 77611	USA	(409) 697-2587	www.promiles.com	Tony Stroncheck President, Sales & Marketing
<b>Qualcomm</b>	5775 Morehouse Dr. San Diego, CA 92121	USA	(858) 587-1121	www.qualcomm.com	Emily Kilpatrick Director of Public Relations

SOFTWARE - LIFT PLANNING/FLEET MANAGEMENT *continued*

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Rental Result Group</b>	Unit B4, Lowfields Close Elland West, Yorkshire HX5 9DX	UK	+1 (480) 777 7130	www.rentalresult.com	Julie Masters Marketing Manager
<b>RMI Corporation</b>	40 Darling Drive Avon, CT 06001	USA	(800) 252-5011	www.rmiusa.com	Stephanie Fritz Sales and Marketing Executive
<b>Senarc Systems, LLC - Visual Dispatch</b>	979 Doral Dr., Suite 1419, Bartlett, IL 60103	USA	(877) 736-2722	www.senarc.com	Chris Kinser President
<b>SENSIM Inc.</b>	5990 Ave Auteuil	Canada	(450) 923-1458	www.loadxpert.com	Vilas Sankar Business Development
<b>Sky Guard</b>	2506 Lakeland Dr, Suite 403, Flowood, MS 39232	USA	(516) 492-0603	http://www.skyguard.com	Anthony Del Guercio National Sales
<b>SmartEquip Inc.</b>	83 East Ave Ste 101 Norwalk, CT 06851	USA	(203) 604-1311	www.smartequip.com	Phil Silver Vice President, Sales & Marketing
<b>Solutions By Computer</b>	191 Chestnut Street Springfield, MA 01103	USA	(413) 737-0499	www.solutionsbycomputer.com	Jack Shea Founder
<b>Tekla</b>	1075 Big Shanty Rd NW, Suite 175, Kennesaw, GA 30144	USA	(770) 426-5105	www.tekla.com	Mary Chiaffredo Marketing Manager
<b>Telogis</b>	20 Enterprise, Ste 100 Aliso Viejo, CA 92656	USA	(949) 389 5500	www.telogis.com	Tina Shilling Marketing Director
<b>Texada Software</b>	7B-291 Woodlawn Rd W Guelph, ON N1H 7L6	Canada	(519) 836-7073	www.texadasoftware.com	Brian Spilak CEO
<b>The JobClock</b>	27001 Agoura Rd, Suite 280, Calabasas, CA 91301	USA	(888) 788-8463	www.exaktime.com	John O'hara President
<b>The Karma Group</b>	118 S. Adams St. Green Bay, WI 54313	USA	(920) 432-6685	www.attainkarma.com	Ellen Beardsley-Wildeman Media Director
<b>Timmons Group</b>	117 S. 14th Street, Suite 303, Richmond, VA 23219	USA	(804) 521-1065	www.timmonsgis.com	Lowell Ballard Principal, Director of Geospatial Solutions
<b>WennSoft</b>	5355 S. Moorland Street New Berlin, WI 53151-1187	USA	(262) 821-4100	www.wennsoft.com	Kim Behrens, Senior Marketing Manager
<b>Visual Dispatch</b>	979 Doral Drive Bartlett, IL 60103	USA	(877) 736-2722	www.senarc.com	Chris Kinser President
<b>Wet Collect</b>	1001 Boulders Parkway, Suite 300, Richmond, VA 2322	USA	(804) 200-6438	www.wetcollect.com	Chris Dodson President
<b>WrightPlan Incorporated</b>	30 Dupont St. East, Ste 204, Waterloo, ON N2J 2G9	Canada	(519) 489-2320	www.wrightplan.com	Michael Cox CEO
<b>Wynne Systems Inc.</b>	2603 Main Street, Suite 710, Irvine, CA 92614	USA	(949) 224-6300	www.wynnesystems.com	John Bureau Director of Sales & Marketing

## SPECIALIZED RIGGING/LIFTING MANUFACTURERS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>American Heavy Moving &amp; Rigging</b>	11532 East End Avenue Chino, CA 91710	USA	(909) 590-5662	www.americanheavymoving.com	Kirk Martin Vice President
<b>Bardex Corporation</b>	6300 Lindmar Drive Goleta, CA 93117	USA	(805) 964-7747	www.bardex.com	Max Whitley Sales
<b>Bigge Crane &amp; Rigging</b>	10700 Bigge Avenue San Leandro, CA 94577	USA	(510) 638-8100	www.bigge.com	Weston Settlemier President
<b>Buckingham Structural Moving Equipment</b>	10 Birch Lane Bernville, PA 19506	USA	(610) 488-8969	www.buckinghamequipment.com	Kendal Siegrist Sales Manager
<b>Columbus McKinnon Corp.</b>	205 Crosspoint Pkwy Getzville, NY 14068	USA	(716) 689-5400	www.cmworks.com	Tom Trost Director of Sales-Rigging
<b>Cometto S.p.A.</b>	Via Cuneo, 20 Borgo San Dalmazzo (CN) 12011, Italy	Italy	+39 0171 263300	www.cometto.com	Alberto Di Stefano Sales Manager
<b>Edwards Moving &amp; Rigging, Inc.</b>	200 Everett Hall Road Shelbyville, KY 40065	USA	(502) 633-1961	www.edwardsmoving.com	John Vaughan Senior Vice President



<b>Enerpac</b>	N86 W12500 Westbrook Crossing, Menomonee Falls, WI 53051	USA	(262) 293-1684	www.enerpac.com	Peter Crisci Product Line Director Heavy Lifting Technology
<b>Engineered Rigging</b>	300 Industrial Blvd Russellville, AR 72802	USA	(219) 712-4579	www.engineeredrigging.com	Christopher Cox President
<b>Engineered Heavy Services</b>	4116-34th Avenue NE, # B, Everett, WA 98205	USA	(425) 259-0213	www.genps.net	Greg Nordholm Owner
<b>EzRig Crane</b>	1500 Palma Dr. 2nd Floor, Ventura, CA 93003	USA	(805) 643-4387	www.ezrigcrane.com	Andy Collins
<b>Fagioli Inc.</b>	21310 Highway 6 Manvel, TX 77578	USA	(281) 997-3434	www.fagioli.com	Edoardo Ascione President
<b>Faymonville Distribution</b>	Duarrefstrooss 8, L-9990 Weiswampach	Luxembourg	352 26 90 04 155	www.faymonville.com	Paul Hönen Sales Manager
<b>GKS Lifting &amp; Moving Solutions</b>	300 East Auburn Avenue Springfield, OH 45505	USA	(937) 324-8867	www.gksweb.com	Andrew Wal Operations Manager
<b>Goldhofer Inc.</b>	7401 Riviera Boulevard Miramar, FL, 33023	USA	(954) 668-2380	www.goldhofer.us	Gerald Rothwell Director of Sales, North America
<b>Greenfield Products LLC</b>	3111 West 167th Street Hazel Crest, IL 60429	USA	(708) 331-3115	www.greenfieldpi.com	Josh Meyers Sales Manager
<b>Guay, Inc.</b>	1160 Bouvier St Quebec City, QC	Canada	(418) 628-8460	www.gruesguay.com	Jean-Marc Baronet President
<b>Hilman Rollers</b>	12 Timber Lane Marlboro, NJ 07746	USA	(732) 462-6277	www.hilmanrollers.com	Jeff Hill Director of Marketing
<b>Holland Moving &amp; Rigging Supplies</b>	35545 Hwy 69 Forest City, IA 50436	USA	(641) 585-3630	www.hmrssupplies.com	Chris Holland President
<b>Hydra-Slide Ltd.</b>	84 Royal Road Guelph, ON N1H 1G3	Canada	(519) 900-1450	www.hydra-slide.com	Janine Smith Vice President
<b>Hydraulic Skidding Systems Industrial Inc.</b>	12 Highlander Street St. George, Brant, ON N0E 1N0	Canada	(519) 448-3919	www.hydraulicsskidding systems.com	Richard Bisch President/Owner
<b>Industrial Magnetics, Inc.</b>	1385 M-75 South Boyne City, MI 49712	USA	(231) 582-3100	www.magnetics.com	Dennis O'Leary President
<b>Industrie Cometto S.P.A.</b>	12011 Borgo S. Dalmazzo Cuneo, Via Cuneo, 20	Italy	+39 0171 263300	www.cometto.com	Giovanni Monti Sales Director
<b>J&amp;R Engineering Co. Inc.</b>	538 Oakland Avenue Mukwonago, WI 53149	USA	(262) 363-9660	www.jrengco.com	John McMahon VP Sales & Service
<b>Kitchen's Crane &amp; Equipment</b>	7913 Dunnottar Ct. Chesterfield, VA 23838	USA	(804) 814-4844	www.kitchensequipment.com	Eddy Kitchen Director
<b>Lampson International</b>	607 E. Columbia Drive Kennewick, WA 99336	USA	(509) 586-0411	www.lampsoncrane.com	William Lampson President & CEO
<b>Liftking Manufacturing Corporation</b>	7135 Islington Ave Woodbridge, ON L4L1V9	Canada	(905) 265-3965	www.liftking.com	Jeff Cockerton General Manager
<b>Lift Systems, Inc.</b>	P O Box 906 Moline, IL 61266	USA	(309) 764-9842	www.lift-systems.com	Brian Wagner VP Sales and Marketing
<b>Logistic Dynamics, Inc.</b>	155 Pineview Drive Amherst, NY 14228	USA	(541) 306-6732	www.ldispecialized.com	JB Baker General Manager
<b>MAGNA Lifting Products, Inc.</b>	P O Box 2290 Blaine, WA 28931	USA	(360) 392-0432	www.magnalifting.com	Philip Gardner President
<b>Mammoet Americas Holding Inc.</b>	20525 FM 521 Rosharon, TX 77583	USA	(281) 369-2200	www.mammoet.com	John Halfweeg President, Americas
<b>Mid-Atlantic Lift</b>	309 Roxbury Industrial Court Charles City, VA 23030	USA	(804) 387-9373	www.midatlanticlift.com	Travis Hall Manager
<b>Mi-Jack Products</b>	3111 W 167th Street Hazel Crest, IL 60429	USA	(708) 596-5200	www.mi-jack.com	Mike Lanigan, Jr. Sales Manager Director
<b>Modulift UK Ltd</b>	11 New Fields Business Park Stinsford Rd, Poole BH17 0NF	UK	(0) 1202 621511	www.modulift.com	Malcolm Peacock Business Development Manager
<b>Power Pusher</b>	546-2895 Derry Road East Mississauga, ON L4T 1A6	Canada	(905) 764-6942	www.pushorpull.com	Slim Baksh VP Sales and Marketing
<b>Riggers Manufacturing Company</b>	PO Box 506 Dixon, IL 61021	USA	(815) 288-7626	www.riggers.com	Bruce Forster President
<b>Rigging Gear Sales</b>	1555 IL Route 26 South Dixon, IL 61021	USA	(815) 288-6403	www.rgsinc.net	Benjamin Forster General Manager
<b>Sarens USA</b>	2812 Avenue S Dickinson, TX 77539	USA	(832) 536-3669	www.sarens.com	Mike Hussey Regional Director NA

## SPECIALIZED RIGGING/LIFTING MANUFACTURERS continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Shuttlelift</b>	49 E. Yew Street Sturgeon Bay, WI 54235	USA	(920) 743-1522	www.shuttlelift.com	Kurt Minten Sales Director
<b>TransWorld Manufacturing</b>	6109 Dean Martin Drive Las Vegas, NV 89118	USA	(702) 798-8920	www.twm-usa.com	Crystal Dieleman, President
<b>Water Weights Inc.</b>	470 Satellite Blvd NE Suwanee, GA 30024	USA	(678) 730-4180	www.waterweightsinc.com	Jim Jota Marketing Manager

## TRAINING CERTIFICATION & INSPECTION SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>A1A Software</b>	1577 S. 8th St. Fernandina Beach, FL 32034	USA	(904) 430-0355	www.a1asoftware.com/training	Tawnia Weiss President
<b>ACRA Enterprises</b>	5950 Red Arrow Hwy Stevensville, MI 49127	USA	(269) 429-6240	www.acratech.com	Jerry Klinke Owner
<b>All Crane Training USA Inc.</b>	9131 San Leandro Street #110, Oakland, CA 94603	USA	(510) 638-6243	http://actuinc.com	Stephanie Carmignani Owner
<b>All Test &amp; Inspection</b>	9998 Goodhue St N E Blaine, MN 55449	USA	(763) 780-2312	www.alltest.com	Scott Winters Vice President
<b>AmCrane</b>	2544 Stoneview Road Orlando, FL 32806	USA	(407) 709-3268	www.amcranes.com	Burt Thorpe Training Manager
<b>America Crane Training Services Inc.</b>	PO Box 740177 Orange City, FL 32774	USA	(386) 843-9726	www.americacranetraining.com	Bonna Hastings President
<b>American Crane Training &amp; Consulting</b>	PO Box 760 Claremont, CA 91711	USA	(805) 314-4121	www.americancranetraining.com	Greg Peters Owner
<b>American International Crane Bureau – AICB</b>	12514 Woody Road Pearland, TX 77581	USA	(281) 871-1863	www.cranebureau.com	Justin Meade Operations & Development Manager
<b>American Test Center</b>	2773 Prairie Drive River Falls, WI 54022-0408	USA	(800) 451-9087	www.atctest.com	Dennis Ireland President
<b>Apprenticeship &amp; Skill Improvement Program</b>	19800 W South Arsenal Rd Wilmington, IL 60481	USA	(815) 722-3201	www.asiplocal150.org	James M. Sweeney Chairman
<b>Arxcis Inc.</b>	PO Box 689 Kingston, WA 98346	USA	(360) 297-3693	www.arxcis.com	Myron Lee Co Founder
<b>Associated Training Services</b>	7190 Elder Lane Sun Prairie, WI 53590	USA	(608) 354-0765	www.operator-school.com	John Klabacka President
<b>Atlantic Crane Inspections Service</b>	P O Box 747 Bensalem, PA 19020	USA	(215) 639-2579	www.atlanticcrane.com	Bill Hottenstein President
<b>Barth Crane Inspections LLC</b>	P O Box 1493 Goose Creek, SC 29445	USA	(843) 871-8877	www.craneoperator.com	Tom Barth Owner
<b>BC Association for Crane Safety</b>	P O Box 48883 Bentall 595 Burrard Street Vancouver, BC V7X 1A8	Canada	(604) 336-4699	www.bcacs.ca	Fraser Cocks Executive Director
<b>California Crane School</b>	111 Bank Street #254 Grass Valley, CA 95945	USA	(888) 967-7277	www.californiacraneschool.com	Kayla Hennessey Director of Operations
<b>Cairo Marine Service</b>	P.O. Box 620 Jackson, MO 63755	USA	(573) 243-6772	www.cairomarineservice.com	Bruce Marrs President
<b>CH C&amp;R Consultants</b>	277 Brazos Way Caldwell, TX 77836	USA	(979) 272-0478	www.chcrane.com	Derek Henson Owner
<b>CM Crane &amp; Training Services</b>	688 Lakewood Drive	USA	(619) 502-1383	www.cmcrane.net	Burke Craghead President
<b>Columbus McKinnon Training</b>	140 John James Audubon Amherst, NY 14228	USA	(716) 689-5400	www.cmworks.com/training	
<b>Construction Safety Experts</b>	7032 Copperleaf Place Cary, NC 27579	USA	(919) 632-3068	www.safety-xperts.com	Terry Young CEO
<b>Crane Certification Services</b>	8076 Richard Road Broadview Heights, OH	USA	(216) 789-6562	www.cranecert.com	George Wancata Owner
<b>Crane Exam</b>	221 S. 35th Street Phoenix, AZ 85009	USA	(602) 541-0364	www.craneexam.com	Ronnie Gray Senior Technical Trainer
<b>Crane Industry Services, LLC</b>	165 Edge Road Suite 109 Villa Rica, GA 30180	USA	(770) 783-9292	www.centeredonsafety.com	Ray Rice Business Development Manager
<b>Crane Inspection &amp; Certification Bureau (CICB)</b>	11112 Boggy Creek Rd Orlando, FL 32824	USA	(800) 327-1386	www.cicb.com	Billy Cook Director of Sales
<b>Crane Inspection Services</b>	P O Box 461, Fairhope, AL 36533	USA	(251) 928-6262	www.craninspection.com	Flynn Pritchett President
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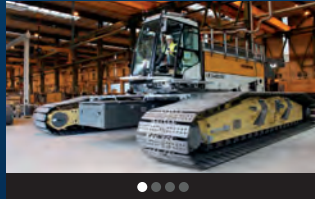
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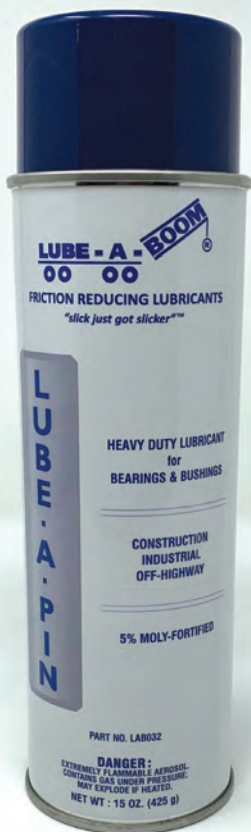


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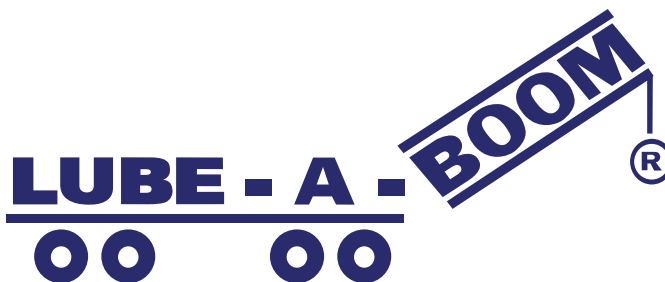


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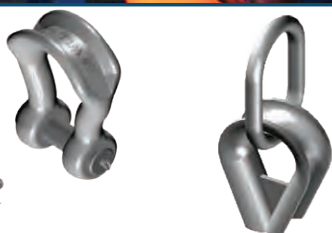


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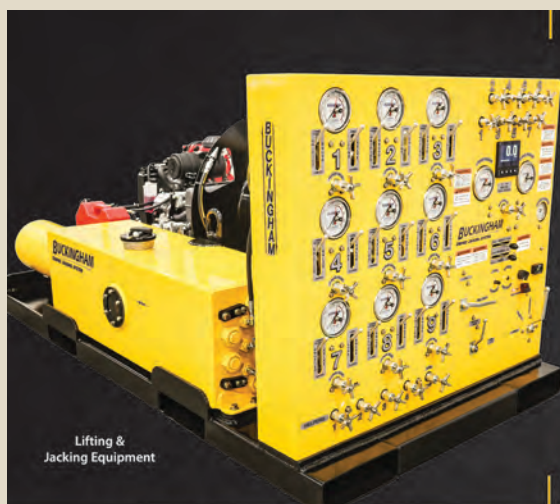
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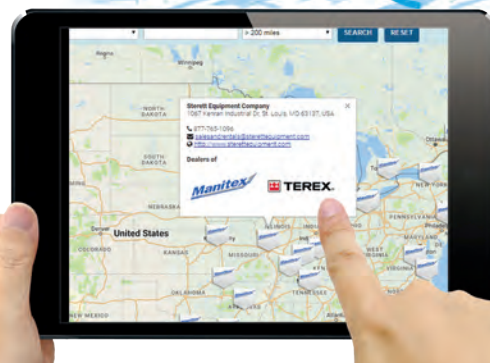
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