

Benchmark on 7 axles.

AC 450-7



DEMAG[®]
TADANO GROUP

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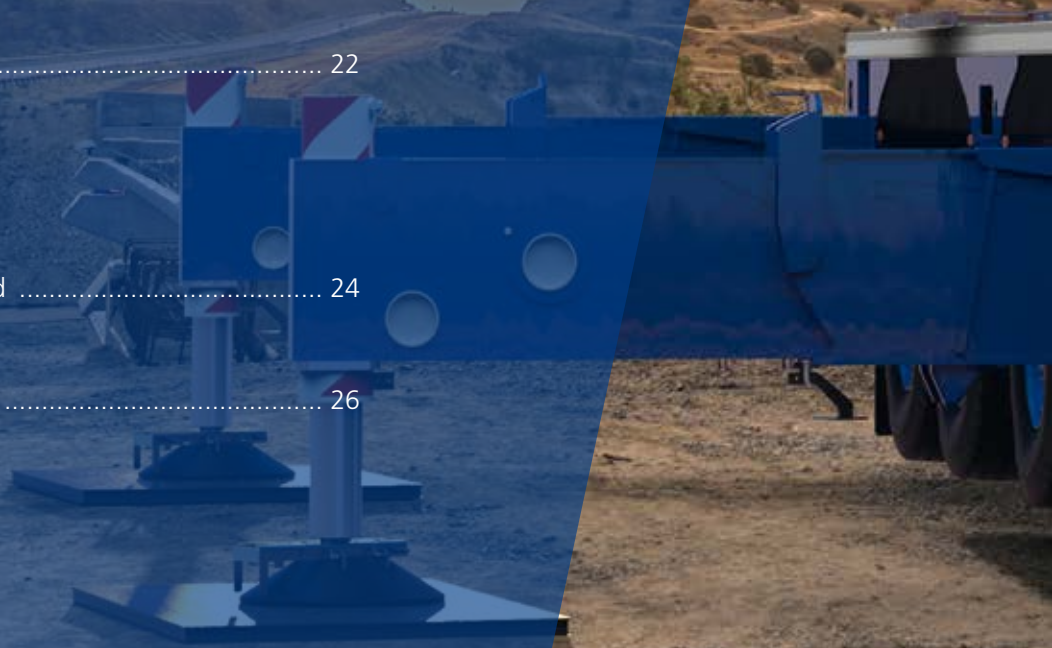




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When today's crane tomorrow's standard Demag is at work

It is as compact as a six-axle crane, and yet is as powerful as some eight-axle cranes – the new Demag AC 450-7 is in a class of its own.

It is the first in a new family of highly efficient cranes built on a legacy of Demag craftsmanship.



The new benchmark in numbers:

- | | | |
|----------------------------|--|-----------------------------------|
| → Capacity class:
450 t | → Luffing jib:
81 m | → Maximum system length:
132 m |
| → Counterweight:
150 t | → Engine performance:
460 kW/
617 hp | → Carrier length:
15.99 m |
| → Main boom:
80 m | → Max. radius:
98 m | → Total length:
17.62 m |

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ork.





460 kW,
many different applications,
low wear,
efficient
low in emissions &

When sheer power is coupled with superior technology, Demag is the driving force.

A good mobile crane impresses on the construction site, an excellent mobile crane also impresses on the way there. The new AC 450-7 delivers outstanding performance that will take you forward in every respect.

Efficiency is crucial, the cost pressure is significant, so why waste valuable time on the road? The AC 450-7 with its 460 kW Mercedes-Benz engine gets you to your destination quickly. The robust drive is extremely powerful and the Mercedes-Benz transmission with low-wear turbo retarder clutch gives you maximum performance.

The AC 450-7 puts a lot of power on the road while meeting EU Stage V, Tier 4F and ECE-R96 emission standards.

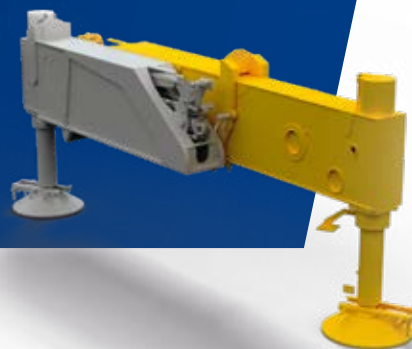
A variety of options are available in order to comply with the applicable regulations in different countries.

Highlight

Weight saving made easy.

A special variant of the carrier enables fast and easy dismantling of the rear outrigger box – quick weight saving guaranteed.

Weight saving:
5300 kg



When 7 axles are as compact as 6 axles, Demag is on the move.

At 15.99 m, the carrier of the AC 450-7 is as short as many cranes on six axles. More axles mean greater travel weight and significantly higher lifting capacity.

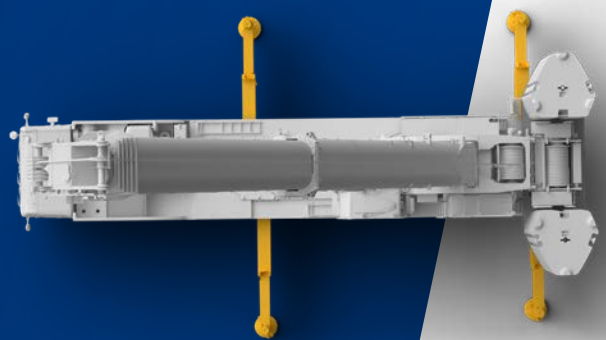
The AC 450-7 combines the advantages of a short and a long crane – with seven steered axles, it is as maneuverable as a 6-axle crane, but due to the additional axle it can move at heavier gross vehicle weights while complying with statutory axle load limits.

Based on this, the AC 450-7 benefits from an 80 m long main boom, which offers an impressive maximum lifting capacity of 195.5 t and can handle an enormous 23.7 t-load when fully extended. With a performance like this, the AC 450-7 can do the work of an 8-axle crane. The performance spectrum of the crane is huge, with correspondingly high utilization rates.

Highlight

Flexibility in a small space.

With an outrigger width of just 8.45 m, the AC 450-7 needs no more space than a 6-axle crane, even on construction sites. Five different outrigger positions and asymmetrically extendable outriggers provide additional flexibility.



→ **Compact like a 6-axle crane (15.99 m)** ←

A yellow and blue truck-mounted crane is shown in an industrial setting, lifting a large grey pipe. The crane's main boom is extended upwards, and a secondary boom is positioned horizontally. The background features several large industrial tanks and structures under a blue sky with light clouds. The crane is mounted on a blue truck chassis with multiple axles and safety markings.

80 m
main boom,
greater lifting capacity,
cost-effective,
compact &
strong

When there are tons of solutions for difficult tasks, Demag makes it easy.

When customers give us feedback, we listen carefully. And this can result in a major further development. This is what happened with our new counterweight concept. It reduces the counterweight tailswinging radius and makes it easier to rig the counterweight slabs.

How easy would it be if the base plate could be rigged from the truck parked in front of the driver's cab? This is exactly what is possible with the AC 450-7 and this is only one of many advantages. Another: All counterweight slabs are symmetrical and can therefore be placed either on the left or right side of the base plate. This makes loading easier and ultimately makes rigging faster, too.

The counterweight concept also offers significantly more flexibility in terms of the weight itself. For the first time, 5 t slabs are available in addition to 10 t slabs. This can optimize counterweight transport, reduce the use of trucks, and enhance utilization. An optional counterweight adapter frame is also available, which shifts the center of gravity of the weight to the rear and can thus increase the lifting capacity.

Highlight

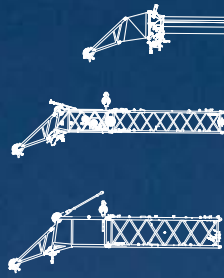
Rigging without assist crane.

The 20 t base plate can be lifted independently from the truck in front of it over the driver's cab and placed on the carrier. An assist crane is not necessary.





150 t
counterweight,
5.6 m counterweight tailswing radius,
more lifting capacity,
strong &
versatile



Luffing jib 81 m
132 m

81 m jib,
patented rigging system,
& flexible
high performance

Main boom
47.3 m



When functionality is taken to the extreme, Demag takes it a step further.

Lifting capacity is one thing, flexibility is another. The AC 450-7 has plenty of both, making it almost a universal tool.

Every construction site is different, every lift different from the next – your crane must be able to adapt. The AC 450-7 is extremely flexible. 19 system lengths are possible with the luffing jib alone. Further configurations are added with a fixed extension. Combine it with an offset angle section and the AC 450-7 is ready for almost anything.

The AC 450-7's equipment is as variable as its performance is uncompromising. Its extensions can be transported efficiently in all variants and by only a few trucks. On the construction site, the patented rigging system then springs into action and raises the luffing jib quickly, easily and safely. It is a system that has already proved very successful with other Demag mobile cranes.

Highlight

Consistently flexible.

The luffing jib can be configured in 3 m sections, thus extending the range of applications. An offset angle section is also available for the fixed jib, allowing interfering edges to be overcome even at lofty heights.



3 m sections

Optimized for **37.3 t**
lifting capacity at fully
extended main boom,

greater lateral stability
better performance

&



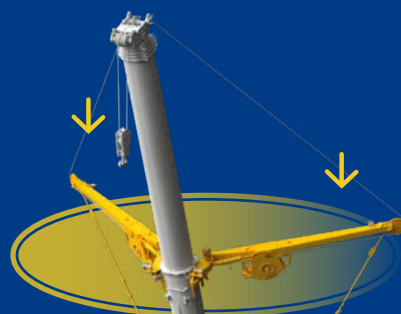
If enormous lifting capacity can still be topped, Demag helps to achieve this.

The more jobs a crane can handle, the more valuable it is for you. With the new optimized Sideways Superlift (SSL) you can increase the lifting capacity of your crane considerably – and land more orders as a result.

The new SSL represents a major development in Demag innovation. The Superlift arms can be attached at the front of the main boom head and are therefore longer. This increases the lateral stability and thus the load capacity of the crane, which no other model in its class can offer. With the boom fully extended, for example, its load capacity is an unrivaled 37.3 t.

Additional jobs in this load range can thus be included. Quick and precise setup routines are made possible by the AC 450-7's automated setup functions and an improved connection of the Superlift winches to the main boom head. Also great: The Superlift arms are hydraulically pinned to the main boom, thus reducing the need for working at height.

SSL deadweight 12.1 t



Highlight

Simple setup, simple handling

Thanks to practical working platforms and its hydraulic pinning, the SSL system can be installed safely and quickly. Furthermore, the Superlift winches are connected to the main boom head using only a single rope strand, doing away with pulleys.



When software supports work, Demag is involved.

Outriggers, boom position, counterweight, slewing angle of the superstructure - there is so much to consider before a lift. With the innovative IC-1 Plus crane control system, you have all this at your fingertips with the maximum available lifting capacity always in view. This means that the crane can reach its full potential at any time and thus often replace larger cranes.

IC-1 Plus brings major improvements to increase flexibility. The intuitively operated system determines the lifting capacity of the crane – depending on the boom position and the slewing angle of the superstructure. In addition,

lifts with asymmetrical outriggers are possible so the maximum available lifting capacity can be achieved even where space is limited. This significantly increases performance and flexibility.

IC-1 Plus Capacity Radar



Highlight

Always maintain the overview.

IC-1 PLUS

A Capacity Radar is shown on the display for the crane operator so they know at any time which crane movements can safely be carried out.



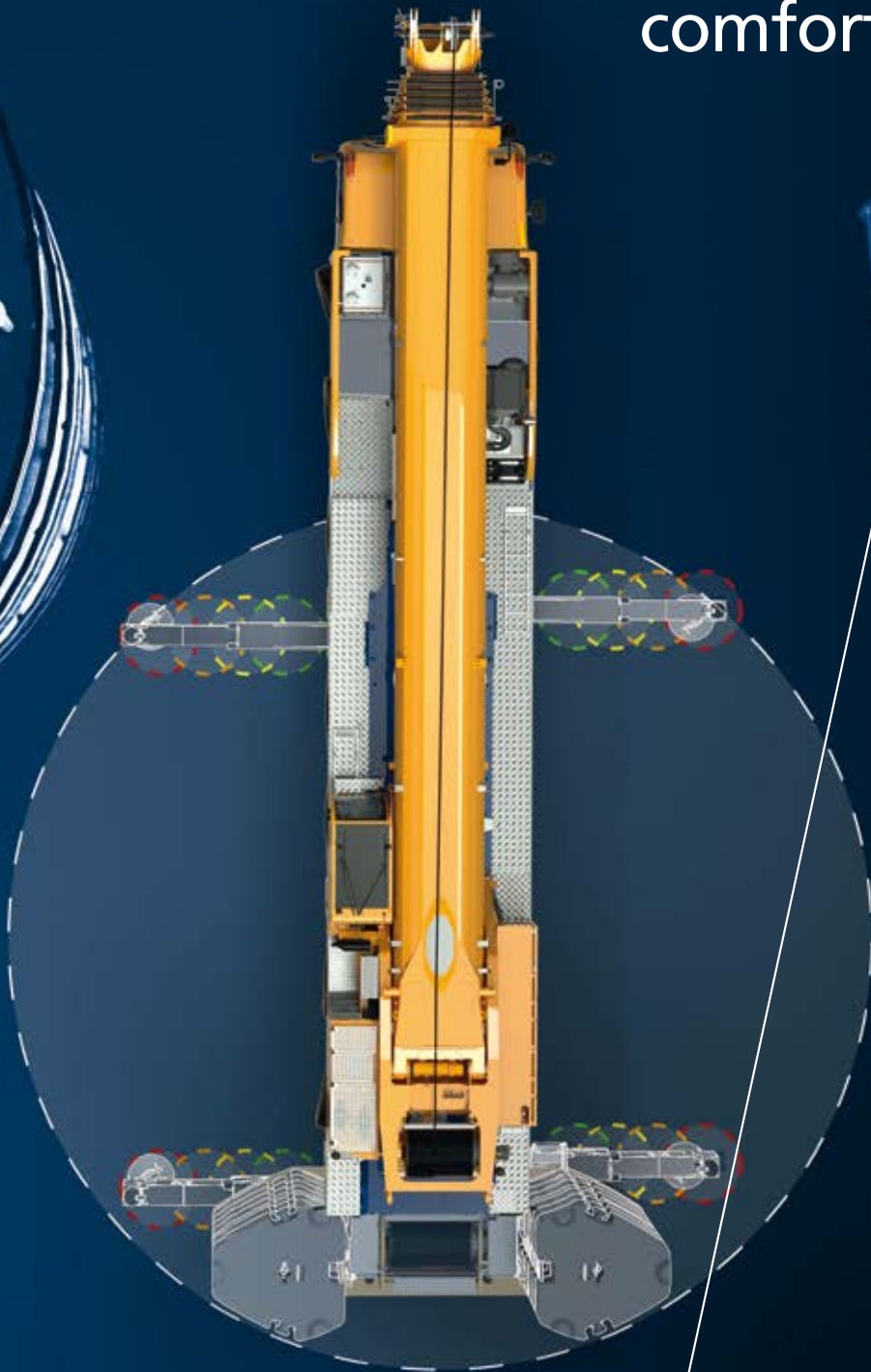
**Increased
lifting capacity,
full overview,
& cost-saving
easy to operate**

Comfort

Occupational safety,
all-round view,

support systems

comfort



Being on top of things even while on the ground is a perspective Demag makes possible.

The AC 450-7 delivers top performance and ensures that crane operators can give their best, too. To achieve this, comfortable and safe equipment is just as important as are onboard assistance systems. The new Demag Surround View provides all-around support for the crane operator in getting to the jobsite safely – and to perfectly position the crane right away.

Especially when space is limited, placing the crane in an optimal position can be a time-consuming exercise. Demag Surround View puts you right on target on any job site.

What is the ideal outrigger position? How large is the counterweight tailswing radius? Are there any obstacles that would prevent a 360-degree rotation? The Demag Surround View system takes all these factors into account, carries out the

necessary calculations and displays the conditions so crane operators can perform their work with utmost precision.

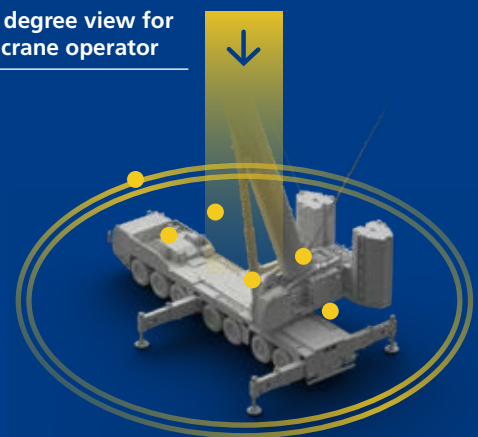
The AC450-7's cab has been designed to increase efficiency, comfort, and safety: ergonomic seats and controls, a simple and easy access concept, hoist monitoring, a practical radio remote control, rear view camera, and extra comfort. Working in such an environment makes for excellent results.

Highlight

All eyes on safety

Six cameras installed around the crane transmit unobscured visibility to a central screen. These cameras help eliminate blind spots during road travel and can help the driver detecting obstacles. On the job site, safety is increased with the Demag Surround View, which provides the operator with a 360 degree view to facilitate optimum positioning of the crane.

360 degree view for the crane operator









When cranes also increase profit, Demag pays off.

Anyone opting for a Demag crane gets more than just a crane. They also get worldwide service, reliable contact persons and innovative solutions that add value to your product. The best example of this is the new IC-1 Remote telematics solution.

IC-1 Remote is the most efficient way to connect your office to your work site. You can access all important crane operating data from your computer or mobile device at any time. Meanwhile, the data will be stored on an encrypted cloud server. IC-1 Remote may be operated as a stand-alone service or used in conjunction with your existing telematics system.

IC-1 Remote captures 188 crane operating data-points. Dashboards show the position and status of all connected cranes for a quick overview of your entire fleet. Based on the available data, post-project analysis generates information that can be used for future projects, operator training, and sound investment decisions rooted in data and facts.

Giving you more control over the service schedule, IC-1 Remote assists in planning routine maintenance for a convenient time that doesn't impact the work schedule. Unlike other crane telematics solutions, IC-1 Remote delivers the unique ability of remote crane troubleshooting. Service team members can remotely access control information and run a fault analysis to help quickly diagnose and resolve issues.



No matter where you are: we're here for you.

Combining the service teams of our Tadano and Demag brands allows us to provide a tightly knit and responsive service. Our committed and skilled teams will be at your side throughout the entire life of your crane and beyond.

ADVICE & SUPPORT

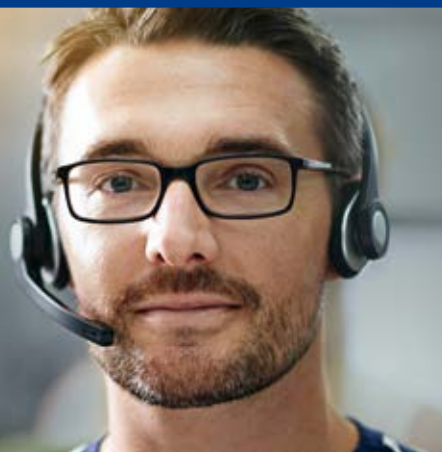
Highly qualified specialists and technicians, who know your crane as well as they know their toolbox, are available at any time to respond to your questions related to service, spare parts and repairs. If a problem cannot be solved over the phone, we will dispatch a service technician to resolve any issue.

SPARE PARTS & ACCESSORIES

We have a wide range of original spare parts and a robust selection of accessories available for you. Please contact our Regional Business Managers to build the optimal crane for your company and create your next profitable investment.

TRAINING & QUALIFICATIONS

For things to run smoothly, they must be done properly. Comprehensive, customized training will enable your teams to operate and work with your cranes in the best, most efficient ways.



When quality knows no limits, Demag is always nearby.

High-performance cranes, continuous innovation, maximum cost-effectiveness, smooth processes – the advantages of Demag are appreciated by customers all over the world.

Demag cranes are manufactured at two locations in Germany and used around the globe. We are available for our customers locally in 60 countries – everywhere with the same knowledge and reliability. We do everything to ensure that an investment in a Demag crane pays off for you in many ways. That's why we continue to build more

efficient cranes, offer responsive service, and have joined forces with one of the world's largest manufacturers of hydraulic cranes. Since becoming part of the Tadano Group, Demag is now positioned better than ever to bring more innovation, wider product variety and reliable service worldwide.





Our great strength: Cranes

High performance is available in many sizes, shapes and equipment variants. Demag offers a wide range of highly efficient crane models – for any task and practically any location in the world.

The product groups:

Demag all terrain cranes

→ **Fast on the road**, flexible in operation, productive on the construction site – the versatile Demag all terrain cranes are impressive right down the line. Leading technology and the highest level of engineering ensure outstanding performance and concentrated efficiency – even and especially for the most difficult tasks. Ergonomic, comfortable cabs optimally support crane operators in their work for a high degree of safety, the best possible results and highest returns.



Demag lattice boom crawler cranes

- **Powerful on the ground**, strong at heights – Demag crawler cranes are versatile and designed for complete cost-effectiveness. With a lifting capacity of 400 to 3,200 t, they cover an enormously broad load spectrum. Whatever you need to lift and wherever you need to lift it, Demag crawler cranes do it quickly and efficiently.



Demag City crane

- **Extremely compact**, powerful and with only one cab for travel and crane operation – a City crane is perfect for narrow construction sites or low halls. Thanks to its short base boom and continuously adjustable outriggers, large loads can be moved even in the smallest of spaces. Despite a low gross vehicle weight of maximum 34 t.



More about your next profitable investment at www.demagmobilecranes.com in the products section.





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