

Trailer Cranes



Power of Aluminium



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Distinctively Klaas - more than just height

Klaas
Power of Aluminium

For 80 years the Klaas family business has been synonymous with innovation, quality and reliability. A Klaas crane is not only unmistakable in its look. We set high quality standards in the conception, planning and production of our machines and are conscious of our responsibility for safety and reliability. It is not only important for us to achieve the largest heights and loads, but also continually to improve the quality of the machines. Therefore we rely on the experience and ability of our employees as well as state-of-the-art manufacturing facilities. The large product range of the Klaas Trailer cranes offers you the optimal solution for every application.



Mast system

The most striking feature of our cranes is the boom. The low tare weight of the boom is a reason for the outstanding reach values of a Klaas aluminium crane. Each reduced kilogram in the mast system benefits the crane extension and the bearing capacity. The striking recesses in the mast provide weightsavings of around 8%, which create a reach advantage of approx. 12%. The Klaas mast is made of high-strength aluminium profiles of a special alloy. The mast produced by the stir welding process provides a firmness as one milled from solid aluminium. This avoids the loss of strength in the weld seam. The typical box shape ensures optimum strength over the edges in connection with an excellent absorption of lateral and dynamic forces. Double lifting cylinders ensure double safety and greater driving comfort. Stressed mounting parts are milled from solid material to provide long-lasting, exceptional stability.



Folding jib

The main focus, when comparing cranes, is on the value of maximum load. However, this figure says little about the practicality of the devices. Much more decisive are the performance values in the actual operating state, that is, working with the extended folding jib. Klaas builds cranes for practical use and convinces with a very strong folding jib, which enables an enormous lateral extension. The K400 RSX is equipped with a hydraulic telescopic folding jib. This allows the first element to be continuously extended by remote control and no longer has to be done manually.

The advantages of the folding jib:

- Higher hook heights by using the extended folding jib. Rear roof areas can be easily reached, even if scaffolding and eaves are blocking the extension of the main boom.
- The double folding jib cylinder enables high lateral scope and maintains stability.
- Automatic locking pins ensure easy handling of the folding jib.
- Due to the hydraulic telescopic folding jib, the K400 RSX can be erected and used in confined spaces, which also applies to platform operation.



Telescoping technology

The patented Klaas 4-rope technology provides a modern, exceptional telescopic system. The rope technology, known from inclined elevators and fire ladders, allows a rapid telescoping under load, even at a flat mast tilt. Four telescope ropes are mounted on a single rope drum. The two outer cables are wound during telescoping. At the same time, the two inner cables are unwound. The track system is fixed in the rope technology. The ropes are guided and electrically monitored. Therefore a formation of slack rope is excluded. The integrated electronic length measurement continuously records the current extension of the mast and calculates the gathered data and maximum load. Maintenance and inspection work are feasible as the rope technology can be accessed easily. In comparison to other conventional systems, the material and labour costs for wear-induced replacements are much lower.



Support system

Automatic electronic set-up

The set-up of the crane is started by pressing a button on the remote control. After the beep, the automatic self-levelling is complete and all the outriggers have the identical pressure, so that the crane is optimally set-up and the best possible reach can be achieved.

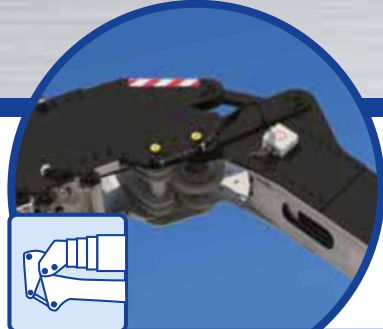
Fully hydraulic support

Thanks to the fully hydraulic support, each outrigger can be continuously and precisely approached. The outriggers are L-shaped in order to ensure the greatest possible tilting safety. The long, vertical support cylinders enable support without substructure. During crane operation on uneven ground, the measure of the support width remains unchanged and ensures optimal outreaches.

Permanent outrigger surveillance

The ASC control constantly monitors the stability during the crane and working platform operation. It takes into account the natural circumstances such as wind and soil conditions. All support functions can be easily controlled via remote control.

The Klaas advantages at a glance



Foldable jib joint

- The robust foldable jib joint provides higher load capacity on the integrated extensions.
- The double foldable jib cylinders enable smoother operation during slewing or under wind load.



Klaas Mast system

- Extremely solid special aluminium alloy with low (tare) weight.
- No loss of strength in the weld seam due to friction stir welding process (FSW): as a result, the weld is as strong as the solid material.



Double derricking cylinders

- Double derricking cylinders provide double safety.
- Lateral force guides can be absorbed better. That makes the boom much more stable and resistant to vibration.
- Two derricking cylinders ensure a very low rate of twist when raising the boom.



Aerial work platform

- The K23-33 TSR and K400 RSX cranes can be converted to a fully fledged aerial work platform in less than 5 minutes.
- 230V / 110V socket provides power for electric tools in the work platform.
- Work platform can be swivelled left and right by 45° to either side.



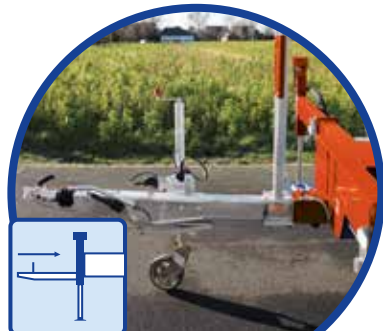
Remotely controlled self-propelled drive

- The hydraulic self-propelled drive is controlled via the standard remote control.
- Twin axle models are equipped with a lift axle.
- Simple manoeuvring in the tightest of spaces.



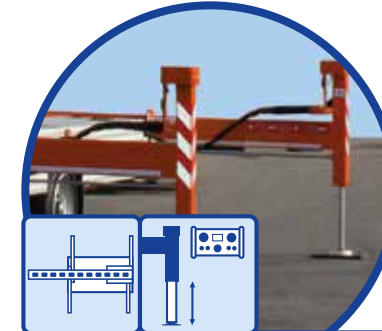
Full cladding

- Spacious, lockable storage compartments.
- Safe storage of tools and accessories.
- Large storage space on the crane.
- The aluminium chequer plate design gives the crane a high-quality and clean look.



Retractable drawbar

- Models K21-30 TSR, K23-33 TSR and K400 RSX are equipped with a retractable drawbar.
- Reduced total length makes erection of the crane on a small installation surface possible.



Outrigger system/automatic erection

- Simplified erection of crane entirely via remote control.
- Automatic levelling provides optimal stability.
- The K21-30 TSR, K23-33 TSR and K400 RSX are equipped with a fully hydraulic H-outrigger system, which, in conjunction with the ASC outrigger monitoring, enables continuously variable outrigger widths.
- The K1724 TSR-H has pivotal outriggers that are easy to operate, with hydraulic support cylinders for continuous height levelling.

Klaas²

- Double derricking cylinders
- Double foldable jib cylinders

Double derricking cylinders provide added stability and enable comfortable and safe operation. Load movements during slewing or under wind load are absorbed significantly better. This enables controlled and precise operation even in difficult conditions.



Crane control

- State-of-the-art Safety PLC for the crane operation.
- CAN-BUS control block allows particularly delicate/sensitive and precise work.
- Gentle start-stop ensures low vibration.
- Remote control with LCD display (can also be operated by cable, i.e. in case of radio interference).



Telescoping winch

- The rope technology, which is developed from the fire engine ladder, allows rapid telescoping under load.
- The low deadweight of the ropes benefits jib length and load capacity.
- Rope technology is low-maintenance and very accessible.
- The integrated electronic length measurement continuously records the current extension length from the mast and calculates the maximum possible load.



Drive concept

- Depending on the model, the cranes are equipped with a powerful diesel engine or with a petrol engine for crane operation.
- Low fuel consumption – meaning enormous cost savings and environmental benefits.
- Electronic tank monitoring on the crane and via remote control.



Accessories-fix system

- Thanks to the Klaas accessories-fix system, your accessories are immediately easily attachable and interchangeable.
- No annoying fastening.
- Due to accurately fitting brackets, road safety is guaranteed!



Personal security

- The K400 RSX is prepared for personal security according to local standards.

Fixed hook lifting

- The K23-33 TSR and the K400 RSX can be equipped with an optional mounting hook function.
- The mounting hook enables extremely precise material transport. Area of use e. g. glass mounting with a vacuum lifter.

Klaas

Tradition and progress

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Klaas has been known for its innovative developments for more than 80 years. Originally founded as a construction company, the main focus was on producing inclined lifts for personal use. Later, the company, now named Theodor Klaas Baumaschinenfabrik, started to sell its products to the construction industry and for furniture transport.

In 1993, the ingenuity of Ludger Klaas resulted in the development of the first aluminium cranes. As the market leader for crane construction, we place a high priority on cutting-edge technology in processing aluminium. The load capacity of the boom has been increased from 500 kg to 6,000kg. Principal customers of Klaas products are roofers, furniture removers and carpenters. More than 4,000 delivered cranes and satisfied clients speak in favour of the quality of our products. Since 2000, Klaas has entered the field of fire fighting technology. Klaas offers with its AluFiver, a multifunctional support for the firefighter. The distribution of two other fire fighting technology products are carried out



by renowned manufacturers.

In the field of work platforms, the Theo25 and Theo20 stand out with their enormous performance values and practical applications. At the headquarters in Ascheberg, the company is producing with very high degree of vertical manufacturing.

The continual improvement of the production and work processes is a clear commitment. For this reason, the quality management, certified according to DIN ISO 9001,



reviews all processes regularly.

More than 200 employees work in the headquarters in Ascheberg and in seven service branches throughout Germany. Due to its customer- and practice-oriented company philosophy as well as its innovative products, the family business feels excellently prepared for the future. Klaas, already in the third generation of family management, continues to be a high performance partner for craftsmen and firefighters.



Equipment		K17-24 TSR-H	K21-30 TSR	K23-33 TSR-City	K400 RSX
TSR-Mast-system		●	●	●	●
Pivotal outriggers		●			
H-Support			●	●	●
Automatic set-up			○	●	●
Telescopic folding jib					●
Two folding pointed cylinders		●	●	●	●
Double derricking cylinder		●	●	●	●
Telescoping winch		●	●	●	●
Continuous rotation		●	●	●	●
Crane control		●	●	●	●
Remote control		●	●	●	●
XL remote control		○	○	○	○
Diesel engine			●	●	●
Petrol engine		●			
Fully enclosed			●	●	●
Telescopic counterweight			●	●	●
Aerial work platform (opt.)				○	○
Accessories fix-system(opt.)		○	○	○	○
Personal security mode					○
Fixed hook lifting				○	○

● Standard equipment

○ Optional equipment

Tech. specifications	K17-24 TSR-H	K21-30 TSR	K23-33 TSR-City	K400 RSX
Hook load	800 kg	1,500 kg	1,500 kg	1,600 kg/3,000 kg
Hook height	24.00 m	29.80 m	32.80 m	31.80 m
Extension length	26.10 m	30.7 m	34.10 m	32.60 m
Support width min./max.	3.59 m/4.97 m	2.85 m - 5.02 m	2.85 m - 5.02 m	3.50 m - 5.63 m
Maximum winch capacity	800 kg	1,500 kg	1,500 kg	1,600 kg
Length of folding jib	1 extension, 7.87 m	1 extension, 9.12 m	3 extensions, 12.31 m	2 extensions, 10.82 m
Vehicle dimensions	7.82x2.03x2.31 m	9.24x2.28x2.48 m	9.24x2.28x2.48 m	9.49x2.28x2.69 m
Total weight	2.5 t	3.5 t	3.5 t	3.5 t