

Mobile crane



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Power of Aluminium





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 aluminium 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 weight-savings 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 and folding-pointed cylinders ensure double safety and greater driving comfort. Stressed mounting parts (such as rope bags, etc.) 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. When does one work with a straight arm? 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 RSX models were 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.
- The hydraulic telescopic folding jib also enables the RSX cranes to be set-up and used in restricted space conditions. This also applies to the operation of the working platform.



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.

Superstructure

The superstructure was built in consideration of modern calculations and load-bearing characteristics, which makes it more compact and manageable. By using of an additional equipment, telescopic counterweight, further improvements were achieved in the reach values of the truck cranes. The extension of the diesel tank increases service life and performance.



Support system

Electronic set-up automatic

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 supports have the identical pressure, so that the device 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 supports 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.

ASC control

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



Hydraulic telescopic folding jib

- Continuous extension of the folding jib via remote control enables fast crane set up even in narrow construction sites.
- The folding jib can also be hydraulically extended during working platform operations.



Klaas Mast system

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



Aerial work platform

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



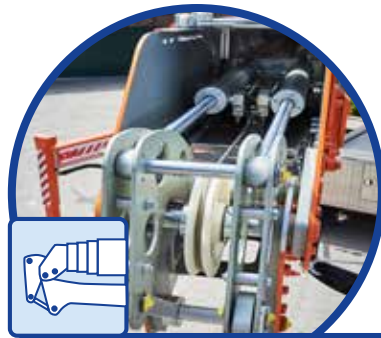
Double Derricking Cylinders

- 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.



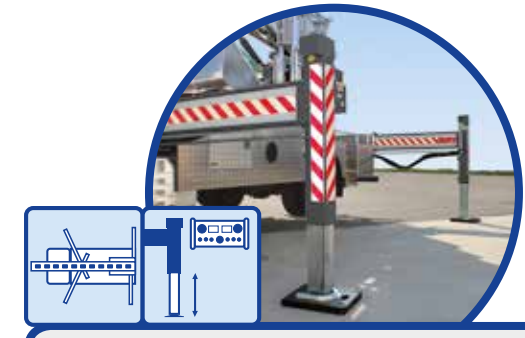
Full cladding

- 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.



Folding jib joint

- The newly designed hinge plate is "made from the solid" and can therefore dispense with steel connecting elements. This saves weight and increases stability.
- The redesigned folding jib joint allows higher loads on the integrated extensions.
- Double folding jib cylinders ensure even more safety and protection against lateral forces.



Automatic setup

- Simplified set up of the crane via remote control
- Automatic levelling ensures optimum stability
- Full hydraulic support in conjunction with the ASC-support monitoring enables infinitely variable support widths, also concerning the extension.



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)
- The memory function enables the control to store two target points. Through this function, the crane moves automatically, in the safe hold-to-run operation mode, to the stored target point.



Telescoping winch

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



Energy supply

- Movable electrical and hydraulic cables are led safely through the mast. There is no hose or cable drum on the mast.
- The low-maintenance hydraulic pipings, made of galvanized steel, are used on the underside. For this reason, the need for extensive hydraulic hose changes is eliminated



Drive concept

- Separate, high-performance diesel engine for crane operation
- Low fuel consumption – meaning enormous cost savings and environmental benefits
- During crane operation there is no load on the truck engine.
- Electronic tank monitoring on the crane and via remote control



Accessories-fix system

- Thanks to the Klaas accessories-fix system, your accessories are immediately within reach.
- No annoying fastening
- Due to accurately fitting brackets, road safety is guaranteed!
- The crane is individually equipped with the required fitting brackets.



Superstructure

- The compact superstructure improves the manoeuvring ability.
- The large models are equipped with a continuously extendable counter weight. As a result, the extension values of the mobile cranes could be further increased.



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. Almost 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 stands out with its 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		K27-32 TSR	K750 RS	K29-34 TSR	K900 RSX	K950 RSX	K1000 RSX
TSR-Mast-system		●	●	●			
TFR-Mast-system					●	●	●
H-Support		●	●				
V-Support				●	●	●	●
Automatic set-up		●	●	●	●	●	●
Hydr. teles. Folding jib					●	●	●
Two folding pointed cylinders		●	●	●	●	●	●
Double derricking cylinder		●	●	●	●	●	●
Telescoping winch		●	●	●	●	●	●
Energy supply		●	●	●	●	●	●
Crane control		●	●	●	●	●	●
Remote control		●	●	●			
XL remote control		○	○	○	●	●	●
Drive concept		●	●	●	●	●	●
Telescopic counterweight						●	●
Full cladding		●	●	●	●	●	●
Aerial work platform (opt.)		○	○	○	○	○	○
Accessories fix-system (opt.)		○	○	○	○	○	○

● Standard equipment ○ optional equipment

Tech. specifications	K27-32 TSR	K750 RS	K29-34 TSR	K900 RSX	K950 RSX	K1000 RSX
Hook load (stand./opt.)	1.5 t	2.0/4.0 t	2.0/3.5 t	3.0/5.0 t	3.0/5.0 t	3.0/6.0 t
Hook height	32.00m	36.40m	34.20m	36.00m	41.40m	49.90m
Extension length	32.50m	37.94m	36.00m	37.63 m	43.24 m	51.80m
Support width min.	2.95m - 5.29m	3.15m - 5.49m	3.15m - 5.26m	3.30m - 5.64m	2.55m - 5.47m	3.08m - 5.48m
Maximum winch capacity	1,500 kg	2,000 kg	2,000 kg	3,000 kg	3,000 kg	3,000 kg
Length of folding jib	2 Auszüge 10.30m	3 Auszüge 12.94m	2 Auszüge 11.12m	2 Auszüge 12.29m	2 Auszüge 12.29m	3 Auszüge 16.78m
Lorry Total weight*	≥ 7.49 t	≥ 7.49 t	≥ 7.49 t	≥ 14 t	≥ 14.99 t	≥ 18.00 t

*Depends on respective type of lorry