The H cranes.

Power and performance.

LIEBHERR

Crane performance and added value.

On every construction site, Liebherr's H cranes are a guarantee of economic high performance. These highly versatile cranes can be moved from one site to the next quickly and erected ready for use in a very short time.

Handling capacity and reliability are impressive features of these fast-erecting cranes – giving you a clear lead in performance and value. The H series consists of the 13 H, 20 H and 26 H models.

1 Quicker to move, adaptable on site.

Crane transport reveals the advantages of the H crane's compact design. Depending on size, it can be moved on public roads as a 2-axle trailer with either partial or complete ballast. With the high-speed axle, it can travel at up to 80 km/h on motorways and similar highways. Yet the H crane is so manoeuvrable that it can be erected and ready for work on any construction site in a very short time.

2 Hydraulics to simplify handling.

With their advanced hydraulic equipment, the H cranes are in top technical form. They are fast to erect, flexible to operate and convincing in their safety and reliability.

3 Every detail carefully thought out.

The innovative EDC slewing gear, powerful hoist gear assemblies, space-saving hydraulics, a rotary power connector as standard equipment, a tight-welded, solid-walled tower and practical quick-release connectors: every detail of the H crane's advanced technical specification reveals Liebherr's design authority – and the experience that has earned the trust of Liebherr's customers worldwide.

1 Quicker to move, adaptable on site.

The advantages of compact, well-planned design are evident in the ease with which H cranes can be moved from one site to the next. Using the high-speed axle, speeds of up to 80 km/h are permissible on motorways and similar high-speed roads. Depending on size, the crane can be moved on public roads as a 2-axle trailer with complete or partial ballast. The 13 H and 20 H travel with the full ballast in position; in the case of the 26 H, 4.5 t of the ballast remain on the crane and the remainder is carried on the towing vehicle. The rear axle can remain attached to the crane during operation. As is customary with Liebherr's cranes, the H models have a special General Operating Permit (German ABE).
A ballasting system is available as an optional extra. Instead of the conventional ballast blocks with suspension eyes, self-centering ballast slabs or a semi-automatic ballasting device are available. Ballast can be picked up at any point on the crane's slewing circle, up to a maximum radius of 4.0 metres.

Standardised axle and adapter connections mean that all Liebherr road-transport axles already in use can be attached without difficulty to H cranes.

If headroom is extremely limited, the jib end of H cranes used with cast ballast blocks can be folded away to one side to reduce the transport height.

2 Hydraulics make handling simple.

Easy hydraulic erecting system.

Time-saving and economical: the hydraulic erecting linkage raises the H crane automatically by way of the rocker axle-removing device on to its support spindles, even on an uneven surface. As the crane unfolds, and of course during dismantling as well, the hoist and trolley travel ropes are kept at the proper tension automatically.
Hydraulic rams on the tower and the jib move the H crane to its working position in no time at all. Erecting is so easy, fast and safe that it can be carried out by a single person without difficulty.

Practical obstacle avoidance.

The front section of the jib can be folded back by 160° and the H crane therefore slewed safely past on-site obstructions.

Extra height with the 20° raised jib position.

The H crane's jib can be raised to an angle of 20 degrees from the horizontal, for additional hook height and even greater versatility in use.

3 Well-planned to the last detail.

Compact hydraulic unit.

The H crane comes with a ready-to-use hydraulic system that is extremely compact and easy to operate. The valves and lines comply with the most stringent specifications. ‘Wear-Check’ lubricant analysis helps to extend the servicing intervals.

The rotary power connector.

H cranes have a rotary power connector as standard equipment, and can therefore slew unrestrictedly in either direction.

Quick-release connections.

The front and rear axles can be attached and removed rapidly and easily at these connections, which act as an additional safety device to the self-centering mountings on both axles. The rear axle can stay in position while the crane is being operated, so that considerable time is saved when setting up the crane.

Tight-welded tower sections.

The folding tower consists of a rectangular-section tube with the electrical wiring and hydraulic lines running inside it so that they are well protected. Another technical feature of this tower: it has solid walls that are absolutely tight-welded, so that there is no risk of rusting or internal corrosion. This high quality is a guarantee of long, reliable operating life and lasting value.

The hydraulic system is supplied ready to operate.

The standard rotary power connector enables H cranes to slew unrestrictedly.

The axles are easily attached and decoupled at quick-release connectors.

The switchgear cabinet.

The standard switchgear cabinet contains contactors for power control. As an optional extra, a frequency converter can be installed for continuously variable hoist speeds.

EDC slewing gear.

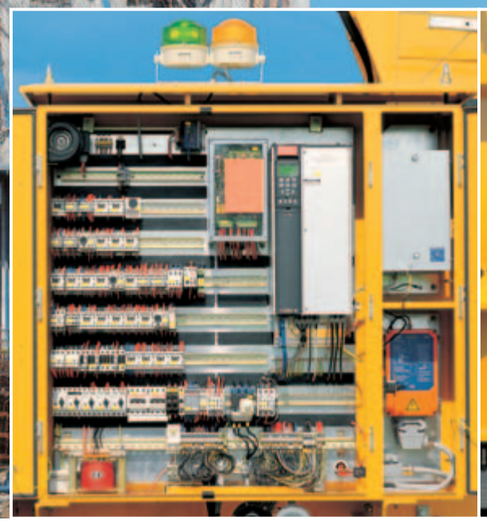
The 13 H has frequency-converter slewing gear with continuous speed control. The 20 H and 26 H have Liebherr's patented EDC slewing gear as standard equipment. This permits sensitive and absolutely jolt-free starting and stopping of slewing movements.
Other high-performance features: continuously adjustable working speeds, electronic wind-load control and oscillation damping for the suspended load. Thanks to electronic monitoring the EDC slewing gear can be reversed safely and reliably by applying counter-current.

Tailor-made hoist gear.

Two types of hoist gear are available for the 20 H and 26 H: the first has a three-speed pole-changing motor with forced ventilation using a separate fan. Its maximum hoist speed is in the region of 40.0 m/min. The alternative version has a frequency-converter power supply and provides the H cranes with continuously variable hoisting and lowering speed ranges between 0 and 50.0 m/min.

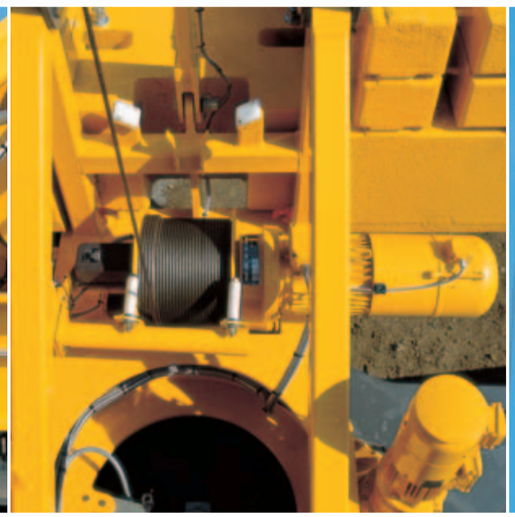
The trolley travel gear.

20 H and 26 H cranes have two trolley travel speeds: 18.0 or 36.0 m/min.



Switchgear cabinet with contactor power control system, EDC slewing gear controller and frequency converter for hoist gear.

The patented EDC slewing gear ensures sensitive control of slewing movements and absolute freedom from jolts.



The frequency controlled hoist gear for continuously variable hoisting and lowering movements.

Pole-changing trolley travel gear with two speeds.

Performance features at a glance.

- 160° jib position for obstacle avoidance: all H cranes
- 20° raised jib position: all H cranes
- Folding tower of tight-welded solid-walled construction: all H cranes
- Advanced hydraulic erecting procedure: all H cranes
- Rocker-action lowering from axles: all H cranes
- Working radii 13 H: 20.0 m
  20 H: 24.0 m
  26 H: 28.0 m
- Ballast: self-centering ballast slabs (optional extra)
  semi-automatic ballasting device (optional extra)
- Slewing radii 13 H: 1.85 m
  20 H: 2.00 m
  26 H: 2.15 m
- Switchgear cabinet: standard contactor control system
- Hoist gear: all H cranes, 3-speed pole-changing motor
  20 H, 26 H: with frequency converter (optional extra)
- EDC slewing gear: standard equipment on 20 H and 26 H cranes
- Overall lengths for road transport
  13 H: 13.3 m
  20 H: 14.4 m
  26 H: 15.6 m
- Access ladder on tower: all H cranes (optional extra)
- Rotary power connector: standard feature on all H cranes
- Universal General Operating Permit (German ABE): all H cranes
- Quick-release axles: all H cranes
- Outrigger bearings can be lubricated: all H cranes

Printed in Germany by Wolf LBC-527-04.02-6gb

Please contact
LIEBHERR INDUSTRIAS METALICAS, S.A., Polígono Industrial Agustinos, Apartado 4096, E-31014 Pamplona,
☎ +34-948-29 70 00, Fax +34-948-29 70 29, www.liebherr.com, E-Mail: info@lim.liebherr.com