

Material Handling Machine

LH 150 Port

Litronic®

Operating Weight:
130,000 – 220,000 kg

Engine:
400 kW / 543 HP

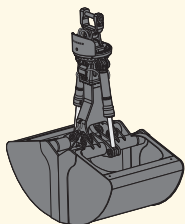
**Stage IV
Stage IIIA
Electro**

Max. System Performance:
614 kW

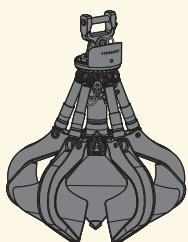


LIEBHERR

The Perfect Solution for Every Application



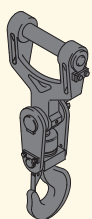
Shells for loose material



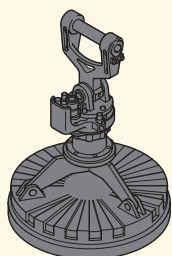
Multi-tine grab



Wood grab

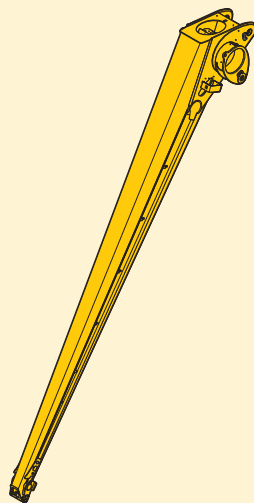


Load hook



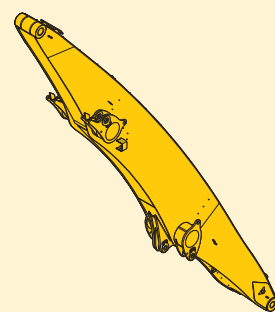
Magnet devices

Working Tools

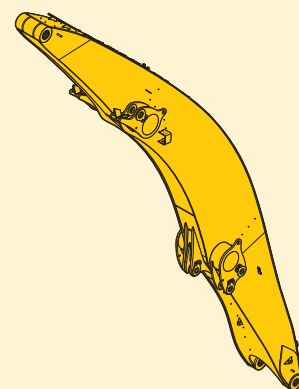


Straight stick

Stick



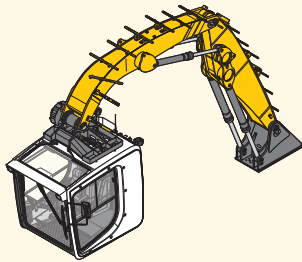
Straight boom



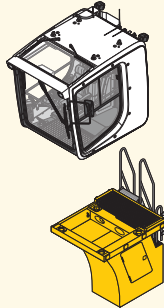
Angled boom

Booms

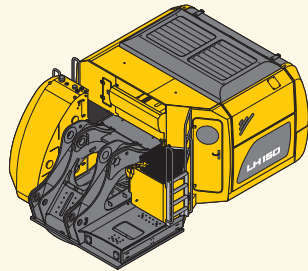
Cab Elevations



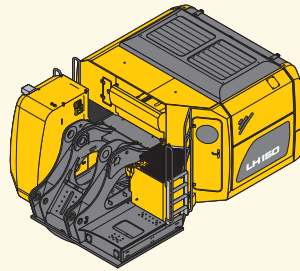
Hydraulic cab elevation



Rigid cab elevation



Diesel engine



Electric motor

Uppercarriage

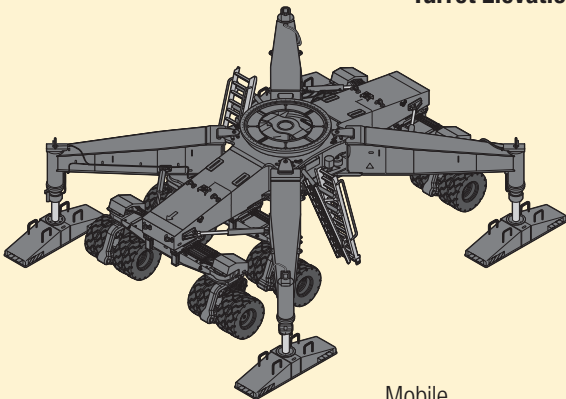


Turret 2,000 mm

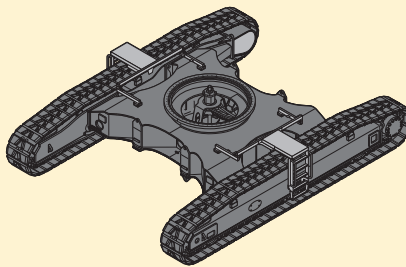


Turret 1,200 mm

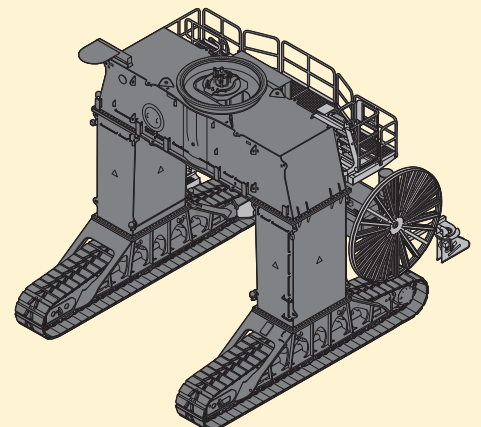
Turret Elevations



Mobile



Crawler



Gantry (Crawler and Rail-mounted)

Undercarriage

Technical Data



Diesel Engine

| | |
|----------------------------|---|
| Rating per ISO 9249 | 400 kW (543 HP) at 1,700 RPM |
| Model | Liebherr D9508 |
| Type | 8 cylinder V-engine |
| Bore/Stroke | 128/157 mm |
| Displacement | 16.16 l |
| Engine operation | 4-stroke diesel Common-Rail turbo-charged and after-cooled reduced emissions |
| Air cleaner | dry-type air cleaner with pre-cleaner, primary and safety elements |
| Engine idling | sensor controlled |
| Electrical system | |
| Voltage | 24 V |
| Batteries | 4 x 180 Ah/12 V |
| Alternator | three-phase current 28 V/180 A |
| Stage IV | |
| Harmful emissions values | in accordance with 97/68/EG stage IV |
| Emission control | Liebherr SCR technology |
| Fuel tank | 2,800 l |
| Urea tank | 180 l |
| Stage IIIA | |
| Harmful emissions values | in accordance with 97/68/EG stage IIIA |
| Fuel tank | 2,800 l |



Electric Motor

| | |
|--|--|
| Rating | 400 kW (543 HP) at 1,700 RPM |
| Model | Liebherr KGF1391 |
| Type | three-phase squirrel cage motor electric motor auxiliary equipment (air-conditioning compressor, alternator 24 V) |
| Electrical system energy supply | Liebherr control cabinets uppercarriage and undercarriage with access protection, drive components heated and ventilated Liebherr frequency converter fed drive system heavy-duty version |
| Supply voltage | |
| Low voltage | 380 – 690 V |
| High voltage | 2.14 – 20 kV |
| Frequency | 50/60 Hz |
| Engine idling | sensor controlled |
| Electrical system | battery-assisted control system, lighting, diagnostics system |
| Voltage | 24 V |
| Batteries | 2 x 180 Ah/12 V |
| Alternator | three-phase current 28 V/140 A |



Cooling System

| | |
|-----------------------|--|
| Diesel engine | water-cooled cooling system, consisting of a cooling unit for water and charge air and a 2 nd cooler for hydraulic oil, each with an infinitely variable, thermostatically controlled fan drive system |
| Electric motor | air-cooled cooling system for hydraulic oil with an infinitely variable, thermostatically controlled fan drive system frequency converter water-cooled |



Hydraulic Controls

| | |
|-----------------------------|---|
| Power distribution | via control valves with integrated safety valves, simultaneous actuation of chassis and attachment. Swing drive separately in closed circuit |
| Servo circuit | |
| Attachment and swing | with electro-hydraulic pilot control and proportional joystick levers |
| Chassis | with electro-hydraulic pilot control and an additional proportional joystick lever |
| Additional functions | |
| Proportional control | proportionally acting transmitters on the joysticks for additional hydraulic functions |



Hydraulic System

| | |
|--|---|
| Hydraulic pump | |
| for attachment and travel drive | 4 Liebherr axial piston variable displacement pumps |
| Max. flow | 4 x 278 l/min. |
| Max. pressure | 350 bar |
| for swing drive | reversible axial piston variable displacement pump, closed-loop circuit |
| Max. flow | 455 l/min. |
| Max. pressure | 260 bar |
| Hydraulic pump regulation and control | Positive Control multi-circuit hydraulic system for independent and demand controlled dosing via the hydraulic pumps; sensor-controlled |
| Hydraulic tank | 1,240 l |
| Hydraulic system | 1,850 – 1,900 l (depending on undercarriage version) |
| Hydraulic oil filter | 3 main return filters with integrated partial micro filtration (5 µm), 1 high pressure filter for each main pump |
| MODE selection | adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum material handling and heavy-duty jobs |
| S (Sensitive) | mode for precision work and lifting through very sensitive movements |
| E (ECO) | mode for especially economical and environmentally friendly operation |
| P (Power) | mode for high performance with low fuel consumption |
| P+ (Power-Plus) | mode for highest performance and for very heavy duty applications, suitable for continuous operation |

Swing Drive

| | |
|----------------------|---|
| Drive | Liebherr compact planetary reduction gear with Liebherr axial piston motor in a closed system with integrated brake valve |
| Swing ring | Liebherr, sealed race ball bearing swing ring, internal teeth |
| Swing speed | 0 – 5.5 RPM stepless |
| Swing torque | up to 260 kNm |
| Holding brake | wet multi-disc (spring applied, pressure released) |

Operator's Cab

| | |
|-------------------------------|---|
| Cab | spacious operator cabin with profiled design, excellent view on working area, access from behind, fixed front, roof and base panel made of bullet proof glass, front screen with electrical heating, shock-absorbing suspension, sounddamping insulating, sliding window on left side, sun shadings, folding seat for instructor |
| Operator's seat | |
| Comfort | air cushioned operator's seat with headrest, lap belt, seat heater, adjustable seat cushion inclination and length, lockable horizontal suspension, automatic weight adjustment, adjustable suspension stiffness, pneumatic lumbar vertebrae support and passive seat climatisation with active coal |
| Option | |
| Premium | in addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), pneumatic low frequency suspension and active seat climatisation with active coal and ventilator |
| Control system | joysticks with arm consoles and swivel seat |
| Operation and displays | large high-resolution operating unit, self-explanatory, colour display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption respectively energy consumption, machine and tool parameters |
| Air-conditioning | |
| Diesel engine | automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu; recirculated air and fresh air filters can be easily replaced and are accessible from the outside; heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures |
| Electric motor | in addition to diesel engine: air-conditioned cab via weekly timer |

Attachment

| | |
|-----------------------------------|---|
| Type | weight-optimised design for bulk and general cargo handling and optimal handling capacity. Complex and stable mountings of attachment and cylinders |
| Hydraulic cylinders | Liebherr cylinders with special seal system as well as shock absorption |
| Energy recovering cylinder | Liebherr gas cylinder with special sealing and control system |
| Bearings | sealed, low maintenance |

Undercarriage

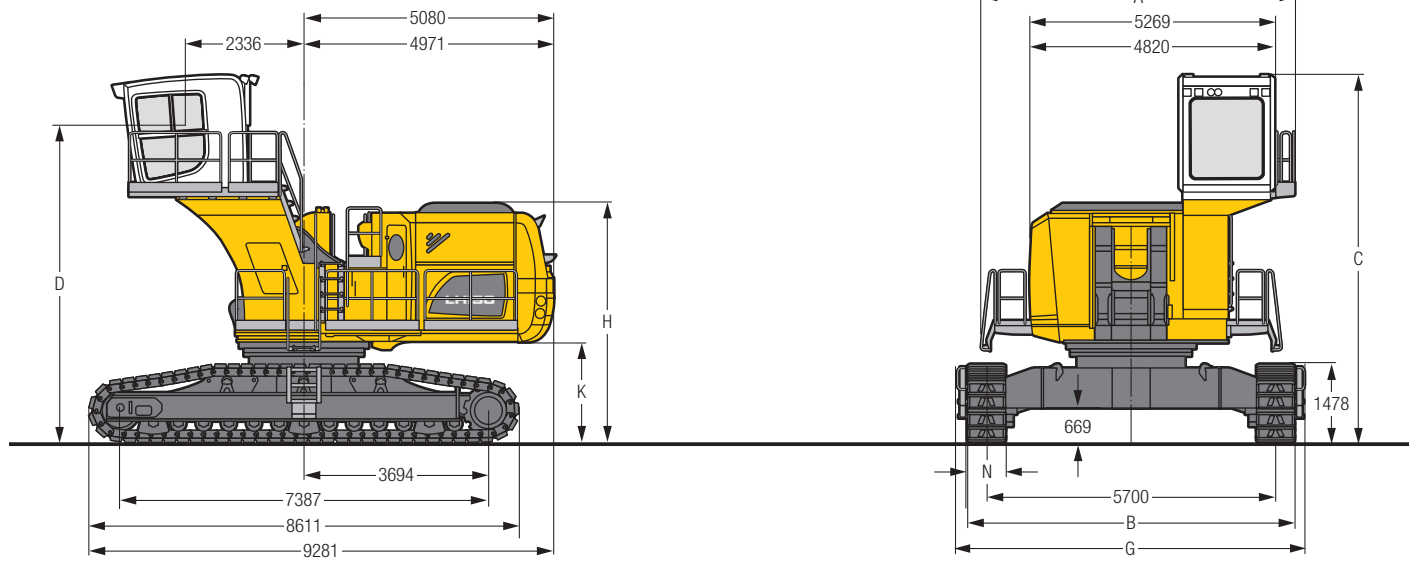
| | |
|----------------------------|--|
| Mobile | |
| Drive | one axle drive per drive axle with Liebherr axial piston motor and functional brake valve on both sides |
| Travel speed | 0 – 7.8 km/h stepless 0 – 4.2 km/h stepless (creeper speed) |
| Axles | wheelsets with suspended 40 t axles, with slewing drive rotating around the vertical axis, hydraulic cylinder for leveling |
| Position of wheelsets | 6 steering axles, 2 powered and braked, for leveling and axle load distribution, interconnected by hydraulic |
| Option | 8 steering axles, 2 powered and braked |
| Steering programs | front wheel, rear wheel and all-wheel steering, move to the side in crab steering possible, turning on the spot |
| Service brake | two circuit travel brake system with accumulator |
| Holding brake | wet multi-disc (spring applied, pressure released) |
| Stabilization | x-shaped 4 point support with 4 folding arms, one vertically positioned support cylinder per folding arm, support plates with ball-and-socket joint, removable |
| Crawler | |
| Drive | Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage |
| Travel speed | 0 – 3.9 km/h stepless 0 – 1.7 km/h stepless (creeper speed) |
| Brake | functional brake valves on both sides |
| Holding brake | wet multi-disc (spring applied, pressure released) |
| Track pads | flat |
| Tracks | sealed and greased |
| Rail-mounted Gantry | |
| Chassis | rail travel drive designed for the respective load per undercarriage corner |
| Drive | compact planetary reduction gear with axial piston motor per rail travel drive |
| Brake | functional brake valves on both sides |
| Holding brake | per rail travel drive wet multi-disc (spring applied, pressure released) |
| Option | |
| Storm brakes | different designs |

Complete Machine

| | |
|-----------------------|---|
| Lubrication | Liebherr central lubrication system for uppercarriage and attachment, automatically |
| Mobile | Liebherr central lubrication system for undercarriage, automatically |
| Steps system | undercarriage ascent via ladders and platforms uppercarriage with platform left and right and cross-over possibility parts hot-dip galvanised, nonskid surface |
| Noise emission | |
| ISO 6396 | L_{pA} (inside cab) = 70 dB(A) |
| 2000/14/EC | L_{WA} (surround noise) = 108 dB(A) |

LH 150 C - Dimensions

Port

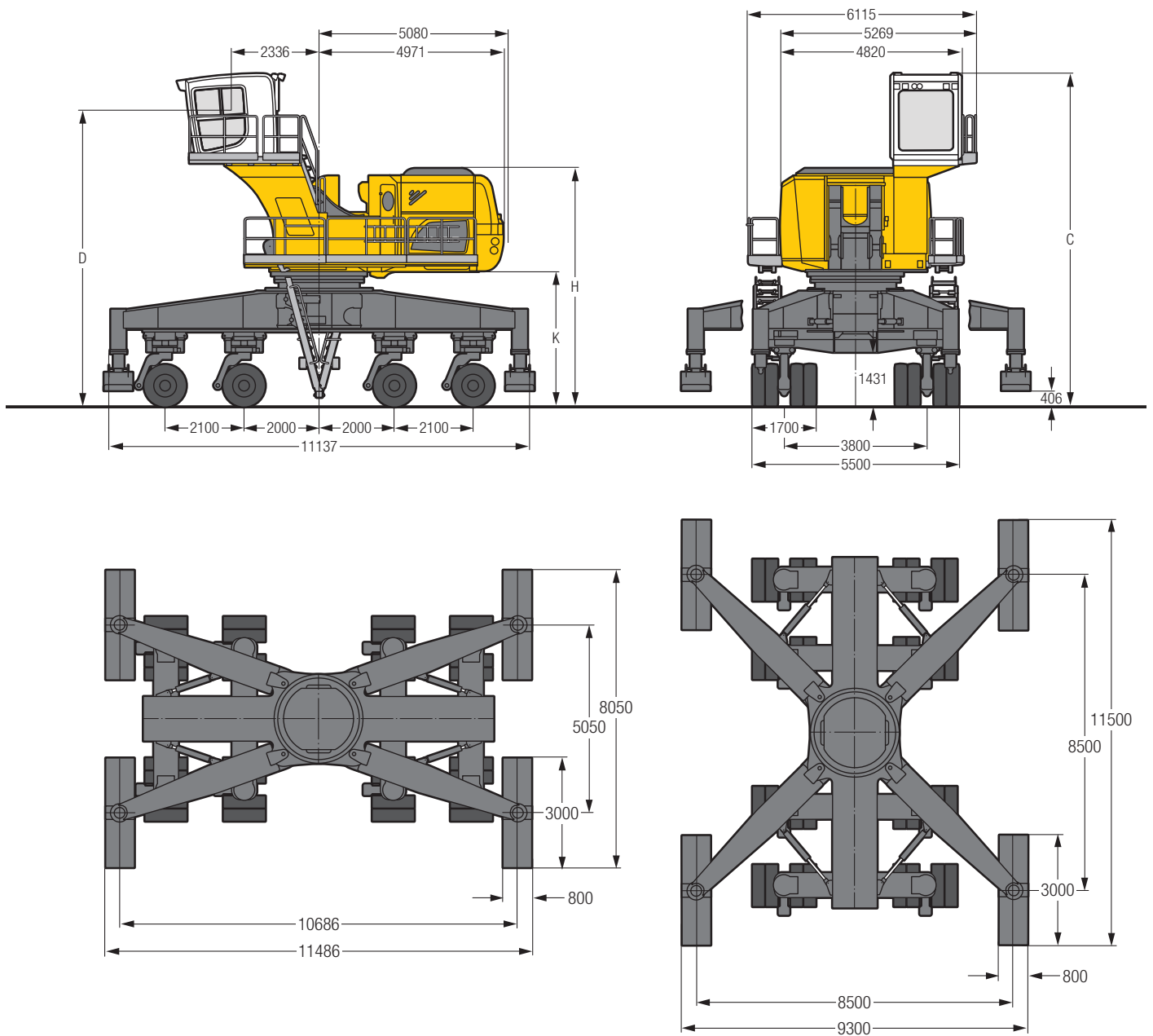


| Increase type | LFC 250 | |
|----------------|---------|-------|
| without turret | mm | |
| A | 6,495 | |
| C | 7,266 | |
| D | 6,248 | |
| H | 4,722 | |
| K | 1,967 | |
| N | 750 | 1,000 |
| B | 6,450 | 6,700 |
| G | 6,964 | 7,214 |

| Increase type | LFC 250 | |
|-----------------|---------|-------|
| Turret 2,000 mm | mm | |
| A | 7,434 | |
| C | 9,266 | |
| D | 8,248 | |
| H | 6,722 | |
| K | 3,967 | |
| N | 750 | 1,000 |
| B | 6,450 | 6,700 |
| G | 6,964 | 7,214 |

LH 150 M - Dimensions

Port

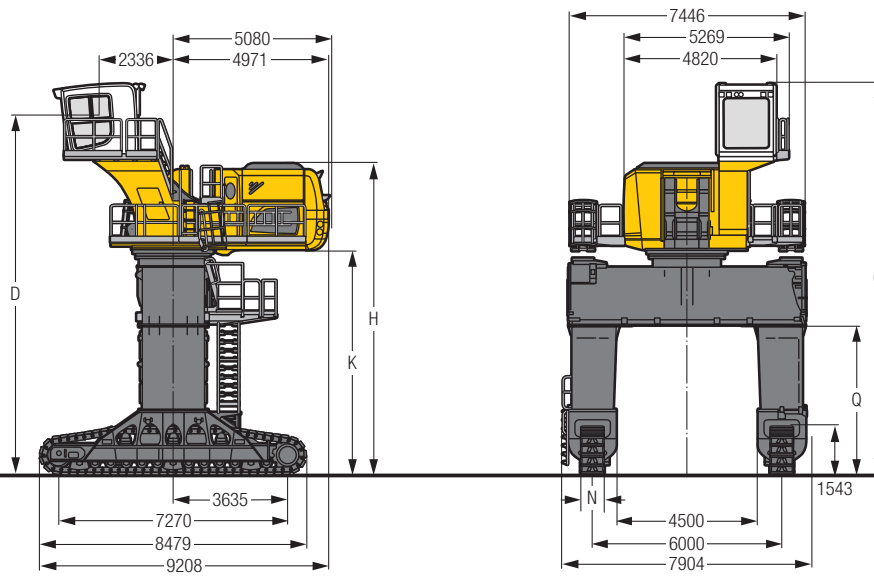


| Increase type without turret | LFC 250 mm |
|---------------------------------|---------------|
| C | 8,854 |
| D | 7,867 |
| H | 6,323 |
| K | 3,568 |

| Increase type Turret 2,000 mm | LFC 250 mm |
|----------------------------------|---------------|
| C | 10,854 |
| D | 9,867 |
| H | 8,323 |
| K | 5,568 |

LH 150 C Gantry - Dimensions

Port

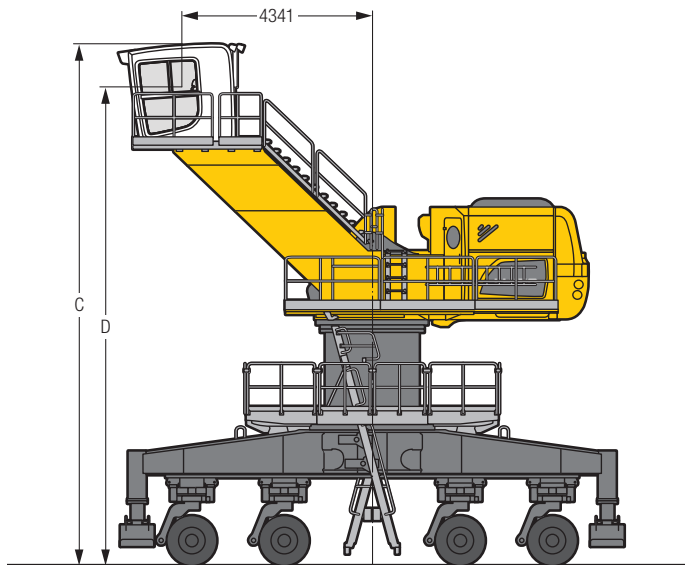


| Increase type | LFC 250 |
|-----------------|-----------|
| Gantry 4,700 mm | mm |
| C | 12,401 |
| D | 11,399 |
| H | 9,861 |
| K | 7,106 |
| N | 750 1,000 |
| Q | 4,700 |

| Increase type | LFC 250 |
|-----------------|-----------|
| Gantry 5,500 mm | mm |
| C | 13,201 |
| D | 12,199 |
| H | 10,661 |
| K | 7,906 |
| N | 750 1,000 |
| Q | 5,500 |

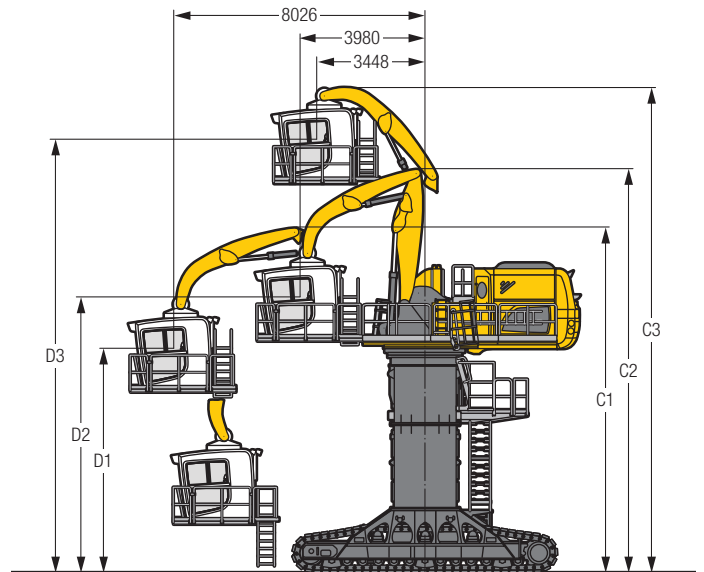
Choice of Cab Elevation

Cab Elevation LFC (Rigid Elevation)



| Increase type | | LFC 350 | |
|-----------------|----|----------------------|----------------------|
| LH 150 C | | | |
| Height | | without turret | Turret 2,000 mm |
| C | mm | 8,269 | 10,269 |
| D | mm | 7,252 | 9,252 |
| LH 150 M | | | |
| Height | | without turret | Turret 2,000 mm |
| C | mm | 9,869 | 11,869 |
| D | mm | 8,866 | 10,866 |
| LH 150 C | | | |
| Height | | with gantry 4,700 mm | with gantry 5,500 mm |
| C | mm | 13,406 | 14,206 |
| D | mm | 12,400 | 13,200 |

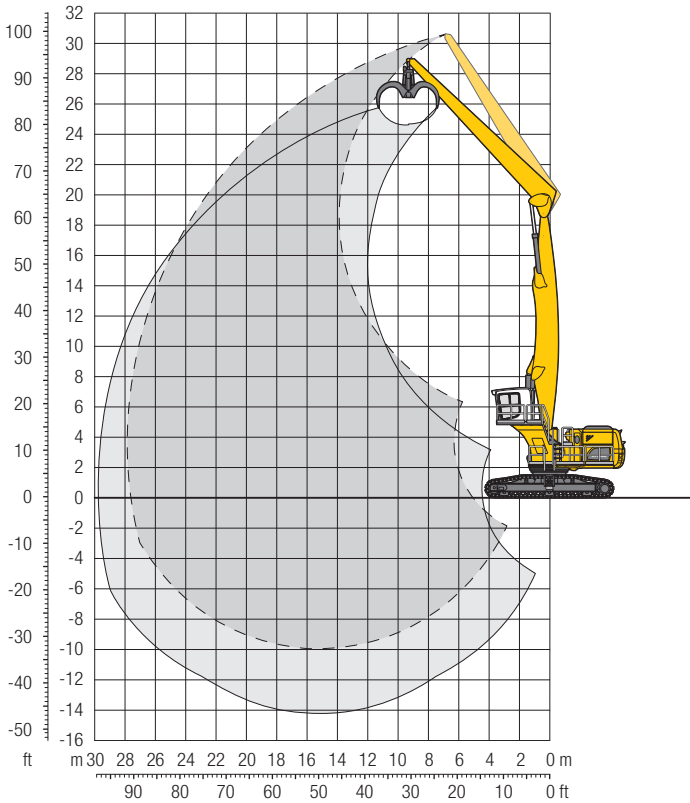
Cab Lift (Hydraulic Elevation)



| Increase type | | LHC-D 1090 T | | | |
|---------------|----|--------------------|--------------------|--------------------|--------------------|
| Height | | LH 150 C | LH 150 M | LH 150 C | LH 150 C |
| | | Turret 2,000 mm | Turret 2,000 mm | Gantry 4,700 mm | Gantry 5,500 mm |
| C1 | mm | 7,835 | 9,423 | 10,970 | 11,770 |
| C2 | mm | 9,714 | 11,302 | 12,849 | 13,649 |
| C3 | mm | 12,328 | 13,916 | 15,463 | 16,263 |
| D1 | mm | 3,993 | 5,581 | 7,128 | 7,928 |
| D2 | mm | 5,621 | 7,209 | 8,756 | 9,556 |
| D3 | mm | 10,658 | 12,246 | 13,793 | 14,593 |

LH 150 C - Attachment GG28

Port – Kinematic 2A

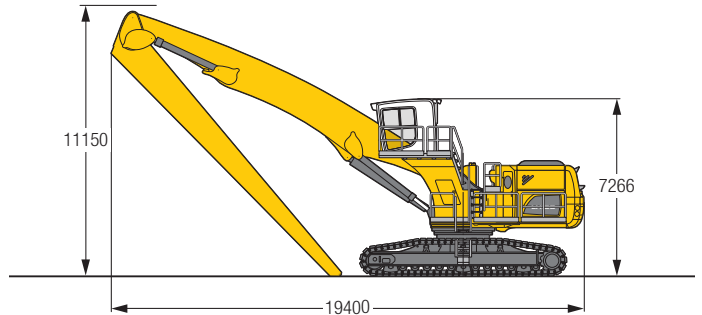


Operating Weight and Ground Pressure

The operating weight includes the basic machine with rigid cab elevation, straight boom 15.00 m, straight stick 13.50 m and grab model GMH 120/2.80 m².

| | |
|-----------------|------------|
| Weight | 141,400 kg |
| Pad width | 750 mm |
| Ground pressure | on request |

Dimensions



| m | Under-carriage | 6.0 m | 7.5 m | 9.0 m | 10.5 m | 12.0 m | 13.5 m | 15.0 m | 16.5 m | 18.0 m | 19.5 m | 21.0 m | 22.5 m | 24.0 m | 25.5 m | 27.0 m | 28.5 m | m | | | | | | | | | | | |
|------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|------|
| | | EW | EW | EW | EW | EW | EW | EW | EW | EW | EW | EW | EW | EW | EW | EW | EW | | EW | | | | | | | | | | |
| 30.0 | EW | | | | | | | | | | | | | | | | | 17.9* 17.9* | 8.9 | | | | | | | | | | |
| 28.5 | EW | | | | 18.2* 18.2* | 15.7* 15.7* | | | | | | | | | | | | | 14.6* 14.6* | 12.5 | | | | | | | | | |
| 27.0 | EW | | | | | 18.1* 18.1* | 16.1* 16.1* | 13.2* 13.2* | | | | | | | | | | | | 12.8* 12.8* | 15.2 | | | | | | | | |
| 25.5 | EW | | | | | | 17.8* 17.8* | 16.0* 16.0* | 13.6* 13.6* | | | | | | | | | | | | 11.7* 11.7* | 17.3 | | | | | | | |
| 24.0 | EW | | | | | | 18.8* 18.8* | 17.5* 17.5* | 15.8* 15.8* | 13.4* 13.4* | | | | | | | | | | | | 11.0* 11.0* | 19.0 | | | | | | |
| 22.5 | EW | | | | | | | 19.2* 19.2* | 17.7* 17.7* | 16.4* 16.4* | 15.3* 15.3* | 13.0* 13.0* | | | | | | | | | | | 10.4* 10.4* | 20.5 | | | | | |
| 21.0 | EW | | | | | | | | 17.5* 17.5* | 16.2* 16.2* | 15.1* 15.1* | 14.2* 14.2* | 12.2* 12.2* | | | | | | | | | | | 10.0* 10.0* | 21.8 | | | | |
| 19.5 | EW | | | | | | | | 17.5* 17.5* | 16.2* 16.2* | 15.1* 15.1* | 14.1* 14.1* | 13.3* 13.3* | 11.0* 11.0* | | | | | | | | | | | 9.7* 9.7* | 22.9 | | | |
| 18.0 | EW | | | | | | | | 17.4* 17.4* | 16.1* 16.1* | 15.0* 15.0* | 14.1* 14.1* | 13.2* 13.2* | 12.5* 12.5* | | | | | | | | | | | | 9.4* 9.4* | 23.9 | | |
| 16.5 | EW | | | | | | | | 17.5* 17.5* | 16.2* 16.2* | 15.0* 15.0* | 14.1* 14.1* | 13.2* 13.2* | 12.4* 12.4* | 11.5* 11.5* | | | | | | | | | | | | 9.3* 9.3* | 24.7 | |
| 15.0 | EW | | | | | | | | 19.1* 19.1* | 17.6* 17.6* | 16.2* 16.2* | 15.1* 15.1* | 14.1* 14.1* | 13.2* 13.2* | 12.4* 12.4* | 11.7* 11.7* | | | | | | | | | | | 9.1* 9.1* | 25.5 | |
| 13.5 | EW | | | | | | | | 19.3* 19.3* | 17.7* 17.7* | 16.3* 16.3* | 15.2* 15.2* | 14.1* 14.1* | 13.2* 13.2* | 12.4* 12.4* | 11.7* 11.7* | 11.0* 11.0* | | | | | | | | | | | 9.0* 9.0* | 26.1 |
| 12.0 | EW | | | | | | | | 19.6* 19.6* | 17.9* 17.9* | 16.5* 16.5* | 15.3* 15.3* | 14.2* 14.2* | 13.3* 13.3* | 12.5* 12.5* | 11.7* 11.7* | 10.9* 10.9* | | | | | | | | | | | 9.0* 9.0* | 26.6 |
| 10.5 | EW | | | | | 22.0* 22.0* | 19.9* 19.9* | 18.1* 18.1* | 16.6* 16.6* | 15.4* 15.4* | 14.3* 14.3* | 13.3* 13.3* | 12.5* 12.5* | 11.7* 11.7* | 10.9* 10.9* | 9.9* 9.9* | | | | | | | | | | | | 8.9* 8.9* | 27.0 |
| 9.0 | EW | | | | 23.3* 23.3* | 22.5* 22.5* | 20.2* 20.2* | 18.4* 18.4* | 16.8* 16.8* | 15.5* 15.5* | 14.4* 14.4* | 13.4* 13.4* | 12.5* 12.5* | 11.7* 11.7* | 10.9* 10.9* | 9.9* 9.9* | 9.0* 9.0* | | | | | | | | | | | 9.0* 9.0* | 27.3 |
| 7.5 | EW | | | 24.1* 24.1* | 26.1* 26.1* | 23.0* 23.0* | 20.6* 20.6* | 18.7* 18.7* | 17.0* 17.0* | 15.7* 15.7* | 14.5* 14.5* | 13.5* 13.5* | 12.5* 12.5* | 11.7* 11.7* | 10.9* 10.9* | 9.8* 9.8* | 9.0* 9.0* | | | | | | | | | | | 9.0* 9.0* | 27.6 |
| 6.0 | EW | 22.8* 22.8* | 28.5* 28.5* | 31.2* 31.2* | 26.9* 26.9* | 23.6* 23.6* | 21.0* 21.0* | 19.0* 19.0* | 17.3* 17.3* | 15.8* 15.8* | 14.6* 14.6* | 13.5* 13.5* | 12.6* 12.6* | 11.7* 11.7* | 10.8* 10.8* | 9.7* 9.7* | 9.8* | | | | | | | | | | | 9.1* 9.1* | 27.8 |
| 4.5 | EW | | 39.0* 39.0* | 32.3* 32.3* | 27.6* 27.6* | 24.1* 24.1* | 21.4* 21.4* | 19.2* 19.2* | 17.4* 17.4* | 16.0* 16.0* | 14.7* 14.7* | 13.6* 13.6* | 12.6* 12.6* | 11.6* 11.6* | 10.6* 10.6* | 9.6* 9.6* | 9.7* | | | | | | | | | | | 8.9* 8.9* | 27.8 |
| 3.0 | EW | | 40.4* 40.4* | 33.2* 33.2* | 28.2* 28.2* | 24.6* 24.6* | 21.7* 21.7* | 19.4* 19.4* | 17.6* 17.6* | 16.1* 16.1* | 14.7* 14.7* | 13.6* 13.6* | 12.5* 12.5* | 11.5* 11.5* | 10.5* 10.6* | 9.4* 9.4* | 9.4* | | | | | | | | | | | 8.5* 8.5* | 27.8 |
| 1.5 | EW | 10.3* 10.3* | 25.4* 25.4* | 33.9* 33.9* | 28.7* 28.7* | 24.9* 24.9* | 21.9* 21.9* | 19.6* 19.6* | 17.7* 17.7* | 16.1* 16.1* | 14.7* 14.7* | 13.5* 13.5* | 12.4* 12.4* | 11.4* 11.4* | 10.3* 10.3* | 9.1* 9.1* | 9.1* | | | | | | | | | | | 8.2* 8.2* | 27.8 |
| 0 | EW | 8.5* 8.5* | 16.7* 16.7* | 34.1* 34.1* | 28.9* 28.9* | 25.0* 25.0* | 22.0* 22.0* | 19.6* 19.6* | 17.7* 17.7* | 16.0* 16.0* | 14.6* 14.6* | 13.4* 13.4* | 12.2* 12.2* | 11.1* 11.1* | 10.0* 10.0* | 8.5* 8.5* | 8.5* | | | | | | | | | | | 7.7* 7.7* | 27.6 |
| -1.5 | EW | 8.6* 8.6* | 14.4* 14.4* | 25.3* 25.3* | 28.7* 28.7* | 24.9* 24.9* | 21.9* 21.9* | 19.5* 19.5* | 17.6* 17.6* | 15.9* 15.9* | 14.4* 14.4* | 13.1* 13.1* | 11.9* 11.9* | 10.7* 10.7* | 9.5* 9.5* | 7.8* 7.8* | 7.8* | | | | | | | | | | | 7.2* 7.2* | 27.3 |
| -3.0 | EW | 9.3* 9.3* | 14.0* 14.0* | 22.1* 22.1* | 28.1* 28.1* | 24.5* 24.5* | 21.6* 21.6* | 19.2* 19.2* | 17.2* 17.2* | 15.6* 15.6* | 14.1* 14.1* | 12.8* 12.8* | 11.5* 11.5* | 10.2* 10.2* | 8.7* 8.7* | 8.7* | | | | | | | | | | | | 6.6* 6.6* | 27.0 |
| -4.5 | EW | 10.4* 10.4* | 14.5* 14.5* | 21.0* 21.0* | 27.0* 27.0* | 23.6* 23.6* | 20.9* 20.9* | 18.6* 18.6* | 16.7* 16.7* | 15.0* 15.0* | 13.5* 13.5* | 12.2* 12.2* | 10.8* 10.8* | 9.4* 9.4* | 7.7* 7.7* | 7.7* | | | | | | | | | | | | 6.9* 6.9* | 26.0 |
| -6.0 | EW | 11.6* 11.6* | 15.3* 15.3* | 21.0* 21.0* | 25.3* 25.3* | 22.3* 22.3* | 19.8* 19.8* | 17.7* 17.7* | 15.9* 15.9* | 14.2* 14.2* | 12.7* 12.7* | 11.3* 11.3* | 9.9* 9.9* | 8.3* 8.3* | 8.3* | | | | | | | | | | | | | 7.3* 7.3* | 24.7 |
| -7.5 | EW | | 16.3* 16.3* | 21.6* 21.6* | 22.9* 22.9* | 20.5* 20.5* | 18.3* 18.3* | 16.4* 16.4* | 14.7* 14.7* | 13.1* 13.1* | 11.6* 11.6* | 10.1* 10.1* | 8.5* 8.5* | | | | | | | | | | | | | | | 8.0* 8.0* | 22.9 |
| -9.0 | EW | | | | 19.7* 19.7* | 17.9* 17.9* | 16.2* 16.2* | 14.6* 14.6* | 13.0* 13.0* | 11.5* 11.5* | 10.0* 10.0* | | | | | | | | | | | | | | | | | 9.3* 9.3* | 20.1 |

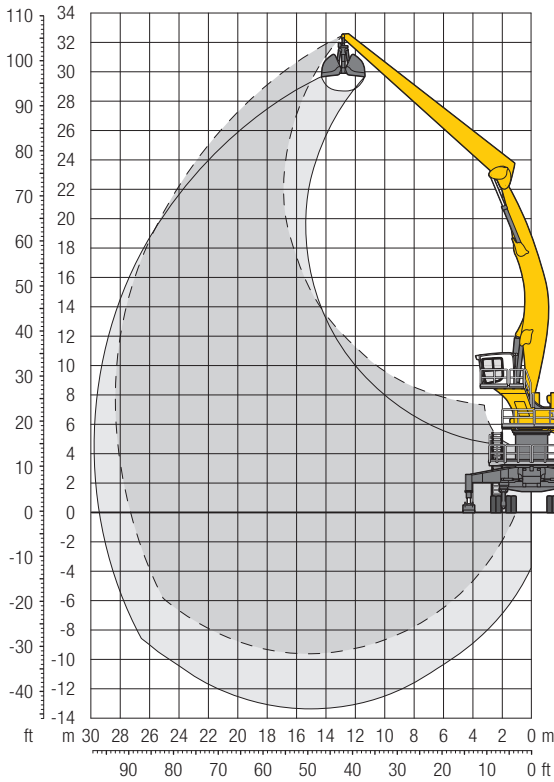
Height
 Can be slewed through 360°
 In longitudinal position of undercarriage
 Max. reach
 * Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

LH 150 M HR - Attachment AG28

Port – Kinematic 2D

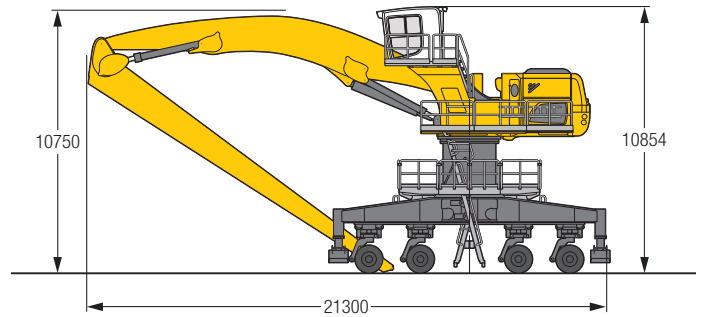


Operating Weight

The operating weight includes the basic machine with turret 2,000 mm, 4 point outriggers, rigid cab elevation, 32 solid tyres, angled boom 15.00 m, straight stick 15.00 m and grab model GMZ 120/8.00 m³ shells for loose material.

Weight 162,800 kg

Dimensions



| m | Under-carriage | Attachment Length (m) | | | | | | | | | | | | | | | | m | | | | | | | | | | | | | | | |
|------|------------------|-----------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| | | 6.0 m | 7.5 m | 9.0 m | 10.5 m | 12.0 m | 13.5 m | 15.0 m | 16.5 m | 18.0 m | 19.5 m | 21.0 m | 22.5 m | 24.0 m | 25.5 m | 27.0 m | 28.5 m | | | | | | | | | | | | | | | | |
| 31.5 | 4 pt. outr. down | | | | | | | 10.5* | 10.5* | | | | | | | | | | | 10.4* | 10.4* | 15.0 | | | | | | | | | | | |
| 30.0 | 4 pt. outr. down | | | | | | | 12.7* | 12.7* | 10.8* | 10.8* | | | | | | | | | | 9.7* | 9.7* | 17.2 | | | | | | | | | | |
| 28.5 | 4 pt. outr. down | | | | | | | 12.6* | 12.6* | 10.7* | 10.7* | | | | | | | | | | 9.1* | 9.1* | 19.0 | | | | | | | | | | |
| 27.0 | 4 pt. outr. down | | | | | | | 13.5* | 13.5* | 12.4* | 12.4* | 10.5* | 10.5* | | | | | | | | 8.7* | 8.7* | 20.6 | | | | | | | | | | |
| 25.5 | 4 pt. outr. down | | | | | | | | | 12.6* | 12.6* | 11.9* | 11.9* | 10.0* | 10.0* | | | | | | 8.4* | 8.4* | 21.9 | | | | | | | | | | |
| 24.0 | 4 pt. outr. down | | | | | | | | | 12.5* | 12.5* | 11.8* | 11.8* | 11.3* | 11.3* | 9.3* | 9.3* | | | | 8.2* | 8.2* | 23.0 | | | | | | | | | | |
| 22.5 | 4 pt. outr. down | | | | | | | | | 12.4* | 12.4* | 11.8* | 11.8* | 11.2* | 11.2* | 10.7* | 10.7* | 8.1* | 8.1* | | 8.0* | 8.0* | 24.1 | | | | | | | | | | |
| 21.0 | 4 pt. outr. down | | | | | | | | | 12.5* | 12.5* | 11.8* | 11.8* | 11.2* | 11.2* | 10.6* | 10.6* | 9.8* | 9.8* | | 7.9* | 7.9* | 24.9 | | | | | | | | | | |
| 19.5 | 4 pt. outr. down | | | | | | | | | 12.5* | 12.5* | 11.8* | 11.8* | 11.2* | 11.2* | 10.6* | 10.6* | 10.2* | 10.2* | 8.3* | 8.3* | | 25.7 | | | | | | | | | | |
| 18.0 | 4 pt. outr. down | | | | | | | | | 13.4* | 13.4* | 12.6* | 12.6* | 11.9* | 11.9* | 11.2* | 11.2* | 10.7* | 10.7* | 10.2* | 10.2* | 9.6* | 9.6* | 26.3 | | | | | | | | | |
| 16.5 | 4 pt. outr. down | | | | | | | | | 13.6* | 13.6* | 12.7* | 12.7* | 12.0* | 12.0* | 11.3* | 11.3* | 10.7* | 10.7* | 10.2* | 10.2* | 9.8* | 9.8* | 26.9 | | | | | | | | | |
| 15.0 | 4 pt. outr. down | | | | | | | | | 14.8* | 14.8* | 13.8* | 13.8* | 12.9* | 12.9* | 12.1* | 12.1* | 11.4* | 11.4* | 10.8* | 10.8* | 10.3* | 10.3* | 8.7* | 8.7* | 27.3 | | | | | | | |
| 13.5 | 4 pt. outr. down | | | | | | | | | 15.2* | 15.2* | 14.0* | 14.0* | 13.1* | 13.1* | 12.2* | 12.2* | 11.5* | 11.5* | 10.9* | 10.9* | 10.3* | 10.3* | 9.8* | 9.8* | 9.4* | 9.4* | 27.7 | | | | | |
| 12.0 | 4 pt. outr. down | | | | | | | | | 16.9* | 16.9* | 15.5* | 15.5* | 14.3* | 14.3* | 13.3* | 13.3* | 12.4* | 12.4* | 11.7* | 11.7* | 11.0* | 11.0* | 10.4* | 10.4* | 9.9* | 9.9* | 9.4* | 9.4* | 28.0 | | | |
| 10.5 | 4 pt. outr. down | | | | | | | | | 19.3* | 19.3* | 17.5* | 17.5* | 15.9* | 15.9* | 14.6* | 14.6* | 13.5* | 13.5* | 12.6* | 12.6* | 11.8* | 11.8* | 11.1* | 11.1* | 10.5* | 10.5* | 10.0* | 10.0* | 9.5* | 9.5* | 28.2 | |
| 9.0 | 4 pt. outr. down | | | | | | | | | 20.1* | 20.1* | 18.0* | 18.0* | 16.3* | 16.3* | 15.0* | 15.0* | 13.8* | 13.8* | 12.8* | 12.8* | 12.0* | 12.0* | 11.3* | 11.3* | 10.6* | 10.6* | 10.0* | 10.0* | 9.5* | 9.5* | 28.3 | |
| 7.5 | 4 pt. outr. down | 41.4* | 41.4* | 33.1* | 33.1* | 27.6* | 27.6* | 23.7* | 23.7* | 20.8* | 20.8* | 18.6* | 18.6* | 16.8* | 16.8* | 15.3* | 15.3* | 14.1* | 14.1* | 13.0* | 13.0* | 12.2* | 12.2* | 11.4* | 11.4* | 10.7* | 10.7* | 10.1* | 10.1* | 9.5* | 9.5* | 28.3 | |
| 6.0 | 4 pt. outr. down | 44.7* | 44.7* | 35.1* | 35.1* | 29.0* | 29.0* | 24.7* | 24.7* | 21.5* | 21.5* | 19.1* | 19.1* | 17.2* | 17.2* | 15.6* | 15.6* | 14.3* | 14.3* | 13.3* | 13.3* | 12.3* | 12.3* | 11.5* | 11.5* | 10.8* | 10.8* | 10.1* | 10.1* | 9.5* | 9.5* | 28.3 | |
| 4.5 | 4 pt. outr. down | 23.8* | 23.8* | 36.8* | 36.8* | 30.2* | 30.2* | 25.6* | 25.6* | 22.2* | 22.2* | 19.6* | 19.6* | 17.6* | 17.6* | 15.9* | 15.9* | 14.6* | 14.6* | 13.5* | 13.5* | 12.5* | 12.5* | 11.6* | 11.6* | 10.9* | 10.9* | 10.2* | 10.2* | 9.5* | 9.5* | 28.2 | |
| 3.0 | 4 pt. outr. down | 16.2* | 16.2* | 28.5* | 28.5* | 31.2* | 31.2* | 26.3* | 26.3* | 22.8* | 22.8* | 20.1* | 20.1* | 17.9* | 17.9* | 16.2* | 16.2* | 14.8* | 14.8* | 13.6* | 13.6* | 12.6* | 12.6* | 11.7* | 11.7* | 10.9* | 10.9* | 10.1* | 10.1* | 9.4* | 9.4* | 28.0 | |
| 1.5 | 4 pt. outr. down | 14.1* | 14.1* | 21.6* | 21.6* | 31.8* | 31.8* | 26.9* | 26.9* | 23.2* | 23.2* | 20.4* | 20.4* | 18.2* | 18.2* | 16.5* | 16.5* | 15.0* | 15.0* | 13.7* | 13.7* | 12.7* | 12.7* | 11.7* | 11.7* | 10.9* | 10.9* | 10.1* | 10.1* | 9.2* | 9.2* | 27.7 | |
| 0 | 4 pt. outr. down | 13.5* | 13.5* | 19.1* | 19.1* | 28.8* | 28.8* | 27.2* | 27.2* | 23.5* | 23.5* | 20.7* | 20.7* | 18.4* | 18.4* | 16.6* | 16.6* | 15.1* | 15.1* | 13.8* | 13.8* | 12.7* | 12.7* | 11.7* | 11.7* | 10.8* | 10.8* | 9.9* | 9.9* | 8.9* | 8.9* | 27.3 | |
| -1.5 | 4 pt. outr. down | 13.6* | 13.6* | 18.1* | 18.1* | 25.5* | 25.5* | 27.2* | 27.2* | 23.6* | 23.6* | 20.7* | 20.7* | 18.5* | 18.5* | 16.6* | 16.6* | 15.1* | 15.1* | 13.8* | 13.8* | 12.6* | 12.6* | 11.6* | 11.6* | 10.6* | 10.6* | 9.6* | 9.6* | | | 26.8 | |
| -3.0 | 4 pt. outr. down | 14.0* | 14.0* | 17.9* | 17.9* | 24.0* | 24.0* | 26.9* | 26.9* | 23.4* | 23.4* | 20.6* | 20.6* | 18.3* | 18.3* | 16.5* | 16.5* | 14.9* | 14.9* | 13.6* | 13.6* | 12.4* | 12.4* | 11.3* | 11.3* | 10.2* | 10.2* | 9.1* | 9.1* | | | 26.3 | |
| -4.5 | 4 pt. outr. down | 14.5* | 14.5* | 18.0* | 18.0* | 23.4* | 23.4* | 26.2* | 26.2* | 22.9* | 22.9* | 20.2* | 20.2* | 18.0* | 18.0* | 16.2* | 16.2* | 14.6* | 14.6* | 13.2* | 13.2* | 12.0* | 12.0* | 10.8* | 10.8* | 9.6* | 9.6* | 8.2* | 8.2* | | | 25.6 | |
| -6.0 | 4 pt. outr. down | 15.1* | 15.1* | 18.4* | 18.4* | 23.4* | 23.4* | 25.0* | 25.0* | 21.9* | 21.9* | 19.4* | 19.4* | 17.3* | 17.3* | 15.6* | 15.6* | 14.0* | 14.0* | 12.6* | 12.6* | 11.3* | 11.3* | 10.1* | 10.1* | 8.7* | 8.7* | | | | | 24.5 | |
| -7.5 | 4 pt. outr. down | | | | | 23.7* | 23.7* | 23.2* | 23.2* | 20.5* | 20.5* | 18.2* | 18.2* | 16.3* | 16.3* | 14.6* | 14.6* | 13.1* | 13.1* | 11.7* | 11.7* | 10.3* | 10.3* | | | | | | | | | 22.3 | |
| -9.0 | 4 pt. outr. down | | | | | | | 18.5* | 18.5* | 16.5* | 16.5* | 14.8* | 14.8* | 13.2* | 13.2* | 11.7* | 11.7* | | | | | | | | | | | | | | | | 18.4 |

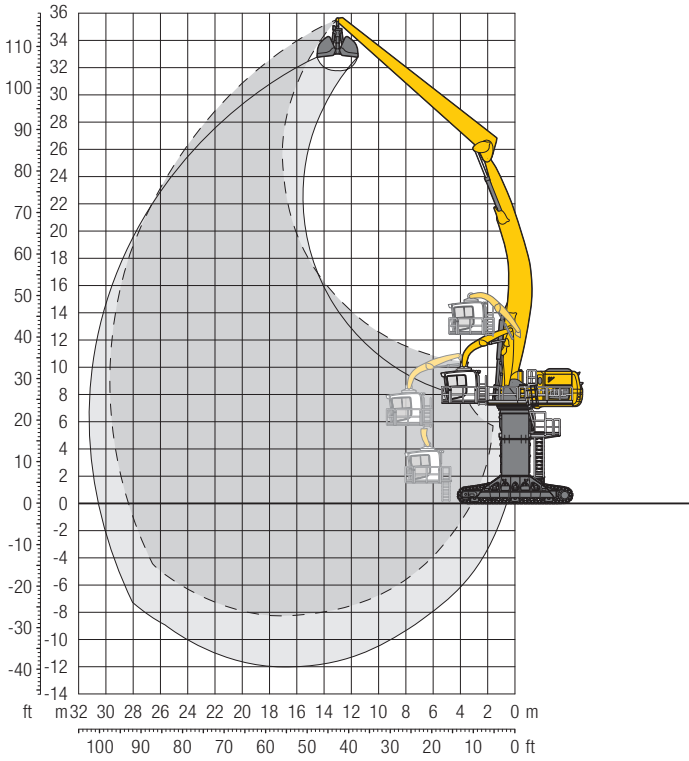
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

LH 150 C Gantry - Attachment AG30

Port – Kinematic 2D

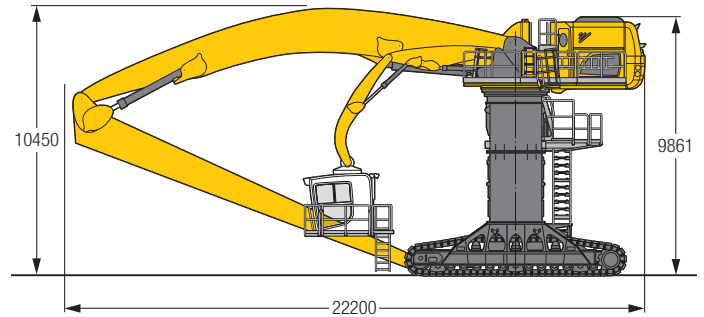


Operating Weight and Ground Pressure

The operating weight includes the basic machine with hydr. cab elevation, angled boom 16.50 m, straight stick 15.00 m and grab model GMZ 120/8.00 m³ shells for loose material.

| | |
|-----------------|------------|
| Weight | 178,000 kg |
| Pad width | 750 mm |
| Ground pressure | on request |

Dimensions



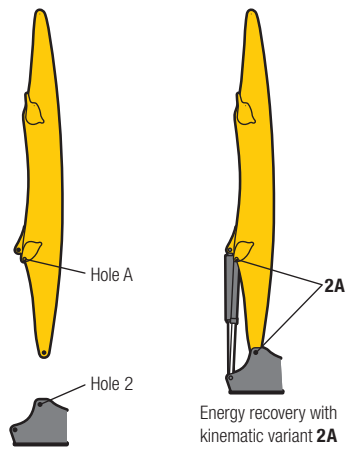
| m | Under-carriage | Attachment Lengths | | | | | | | | | | | | | | | | m | | | | | | | | | | | | | | | | | | | | |
|------|----------------|--------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| | | 6.0 m | 7.5 m | 9.0 m | 10.5 m | 12.0 m | 13.5 m | 15.0 m | 16.5 m | 18.0 m | 19.5 m | 21.0 m | 22.5 m | 24.0 m | 25.5 m | 27.0 m | 28.5 m | | | | | | | | | | | | | | | | | | | | | |
| 34.5 | Gantry | | | | | | | | | | | | | | | | | | 10.6' | 10.6' | 14.9 | | | | | | | | | | | | | | | | | |
| 33.0 | Gantry | | | | | | | | | | | | | | | | | | 9.8' | 9.8' | 17.3 | | | | | | | | | | | | | | | | | |
| 31.5 | Gantry | | | | | | | | | | | | | | | | | | 9.2' | 9.2' | 19.2 | | | | | | | | | | | | | | | | | |
| 30.0 | Gantry | | | | | | | | | | | | | | | | | | 8.8' | 8.8' | 20.9 | | | | | | | | | | | | | | | | | |
| 28.5 | Gantry | | | | | | | | | | | | | | | | | | 8.5' | 8.5' | 22.3 | | | | | | | | | | | | | | | | | |
| 27.0 | Gantry | | | | | | | | | | | | | | | | | | 8.2' | 8.2' | 23.5 | | | | | | | | | | | | | | | | | |
| 25.5 | Gantry | | | | | | | | | | | | | | | | | | 8.1' | 8.1' | 24.6 | | | | | | | | | | | | | | | | | |
| 24.0 | Gantry | | | | | | | | | | | | | | | | | | 8.0' | 8.0' | 25.6 | | | | | | | | | | | | | | | | | |
| 22.5 | Gantry | | | | | | | | | | | | | | | | | | 7.9' | 7.9' | 26.4 | | | | | | | | | | | | | | | | | |
| 21.0 | Gantry | | | | | | | | | | | | | | | | | | 7.8' | 7.8' | 27.1 | | | | | | | | | | | | | | | | | |
| 19.5 | Gantry | | | | | | | | | | | | | | | | | | 7.8' | 7.8' | 27.8 | | | | | | | | | | | | | | | | | |
| 18.0 | Gantry | | | | | | | | | | | | | | | | | | 7.8' | 7.8' | 28.3 | | | | | | | | | | | | | | | | | |
| 16.5 | Gantry | | | | | | | | | | | | | | | | | | 8.2' | 8.2' | 28.7 | | | | | | | | | | | | | | | | | |
| 15.0 | Gantry | | | | | | | | | | | | | | | | | | 8.1' | 8.1' | 29.1 | | | | | | | | | | | | | | | | | |
| 13.5 | Gantry | | | | | | | | | | | | | | | | | | 8.2' | 8.2' | 29.4 | | | | | | | | | | | | | | | | | |
| 12.0 | Gantry | | | | | | | | | | | | | | | | | | 8.2' | 8.2' | 29.6 | | | | | | | | | | | | | | | | | |
| 10.5 | Gantry | 40.2* | 40.2* | 32.0* | 32.0* | 26.6* | 26.6* | 22.7* | 22.7* | 19.9* | 19.9* | 17.6* | 17.6* | 15.8* | 15.8* | 14.4* | 14.4* | 13.2* | 13.2* | 12.1* | 12.1* | 11.3* | 11.3* | 10.5* | 10.5* | 9.8* | 9.8* | 9.2* | 9.2* | 8.7* | 8.7* | 8.2* | 8.2* | 7.8* | 7.8* | 29.7 | | |
| 9.0 | Gantry | 42.5* | 42.5* | 33.4* | 33.4* | 27.5* | 27.5* | 23.4* | 23.4* | 20.3* | 20.3* | 18.0* | 18.0* | 16.1* | 16.1* | 14.6* | 14.6* | 13.3* | 13.3* | 12.3* | 12.3* | 11.5* | 11.5* | 10.7* | 10.7* | 10.1* | 10.1* | 9.5* | 9.5* | 9.0* | 9.0* | 8.6* | 8.6* | 8.2* | 8.2* | 7.7* | 7.7* | 29.7 |
| 7.5 | Gantry | 18.6* | 18.6* | 34.6* | 34.6* | 28.4* | 28.4* | 24.0* | 24.0* | 20.8* | 20.8* | 18.3* | 18.3* | 16.4* | 16.4* | 14.8* | 14.8* | 13.5* | 13.5* | 12.4* | 12.4* | 11.5* | 11.5* | 10.7* | 10.7* | 10.0* | 10.0* | 9.3* | 9.3* | 8.7* | 8.7* | 8.2* | 8.2* | 7.7* | 7.7* | 29.7 | | |
| 6.0 | Gantry | 11.9* | 11.9* | 21.8* | 21.8* | 29.1* | 29.1* | 24.5* | 24.5* | 21.2* | 21.2* | 18.6* | 18.6* | 16.6* | 16.6* | 15.0* | 15.0* | 13.7* | 13.7* | 12.5* | 12.5* | 11.6* | 11.6* | 10.7* | 10.7* | 10.0* | 10.0* | 9.3* | 9.3* | 8.7* | 8.7* | 8.1* | 8.1* | 7.6* | 7.6* | 29.6 | | |
| 4.5 | Gantry | 10.2* | 10.2* | 16.2* | 16.2* | 27.2* | 27.2* | 24.9* | 24.9* | 21.5* | 21.5* | 18.9* | 18.9* | 16.8* | 16.8* | 15.2* | 15.2* | 13.8* | 13.8* | 12.6* | 12.6* | 11.6* | 11.6* | 10.8* | 10.8* | 10.0* | 10.0* | 9.3* | 9.3* | 8.7* | 8.7* | 8.0* | 8.0* | 7.5* | 7.5* | 29.4 | | |
| 3.0 | Gantry | 9.9* | 9.9* | 14.3* | 14.3* | 21.6* | 21.6* | 25.2* | 25.2* | 21.7* | 21.7* | 19.1* | 19.1* | 17.0* | 17.0* | 15.3* | 15.3* | 13.9* | 13.9* | 12.7* | 12.7* | 11.7* | 11.7* | 10.8* | 10.8* | 10.0* | 10.0* | 9.3* | 9.3* | 8.6* | 8.6* | 7.8* | 7.8* | 7.5* | 7.5* | 29.2 | | |
| 1.5 | Gantry | 10.1* | 10.1* | 13.7* | 13.7* | 19.3* | 19.3* | 25.2* | 25.2* | 21.8* | 21.8* | 19.2* | 19.2* | 17.1* | 17.1* | 15.3* | 15.3* | 13.9* | 13.9* | 12.7* | 12.7* | 11.7* | 11.7* | 10.7* | 10.7* | 9.9* | 9.9* | 9.1* | 9.1* | 8.4* | 8.4* | 7.6* | 7.6* | 7.4* | 7.4* | 28.8 | | |
| 0 | Gantry | 10.6* | 10.6* | 13.7* | 13.7* | 18.3* | 18.3* | 25.0* | 25.0* | 21.7* | 21.7* | 19.1* | 19.1* | 17.0* | 17.0* | 15.3* | 15.3* | 13.8* | 13.8* | 12.6* | 12.6* | 11.6* | 11.6* | 10.6* | 10.6* | 9.7* | 9.7* | 8.9* | 8.9* | 8.1* | 8.1* | 7.2* | 7.2* | 28.4 | | | | |
| -1.5 | Gantry | 11.3* | 11.3* | 14.0* | 14.0* | 17.9* | 17.9* | 24.1* | 24.1* | 21.3* | 21.3* | 18.8* | 18.8* | 16.8* | 16.8* | 15.1* | 15.1* | 13.7* | 13.7* | 12.4* | 12.4* | 11.4* | 11.4* | 10.4* | 10.4* | 9.5* | 9.5* | 8.6* | 8.6* | 7.7* | 7.7* | 7.0* | 7.0* | 27.9 | | | | |
| -3.0 | Gantry | 12.0* | 12.0* | 14.4* | 14.4* | 18.0* | 18.0* | 23.5* | 23.5* | 20.7* | 20.7* | 18.3* | 18.3* | 16.4* | 16.4* | 14.7* | 14.7* | 13.3* | 13.3* | 12.1* | 12.1* | 11.0* | 11.0* | 10.0* | 10.0* | 9.1* | 9.1* | 8.1* | 8.1* | 7.0* | 7.0* | 6.8* | 6.8* | 27.2 | | | | |
| -4.5 | Gantry | | | 15.0* | 15.0* | 18.3* | 18.3* | 22.3* | 22.3* | 19.7* | 19.7* | 17.6* | 17.6* | 15.7* | 15.7* | 14.2* | 14.2* | 12.8* | 12.8* | 11.6* | 11.6* | 10.5* | 10.5* | 9.5* | 9.5* | 8.5* | 8.5* | 7.4* | 7.4* | 6.5* | 6.5* | 26.5 | | | | | | |
| -6.0 | Gantry | | | 18.8* | 18.8* | 20.5* | 20.5* | 18.3* | 18.3* | 16.5* | 16.5* | 14.8* | 14.8* | 13.4* | 13.4* | 12.1* | 12.1* | 10.9* | 10.9* | 9.8* | 9.8* | 8.7* | 8.7* | 7.6* | 7.6* | 7.2* | 7.2* | 7.2* | 7.2* | 24.5 | | | | | | | | |
| -7.5 | Gantry | | | | | 16.5* | 16.5* | 14.9* | 14.9* | 13.5* | 13.5* | 12.2* | 12.2* | 11.0* | 11.0* | 9.8* | 9.8* | 8.7* | 8.7* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 8.5* | 21.3 | | | | | | |

Height
 Can be slewed through 360°
 In longitudinal position of undercarriage
 Max. reach
 * Limited by hydr. capacity

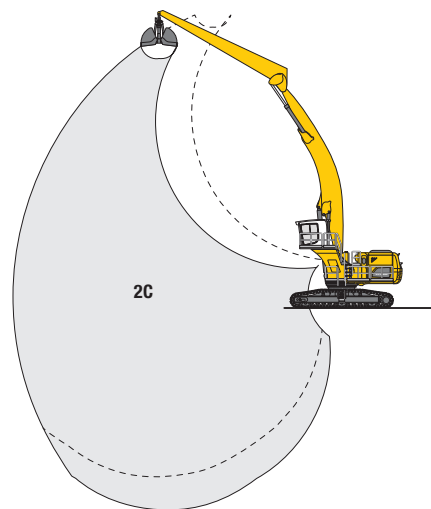
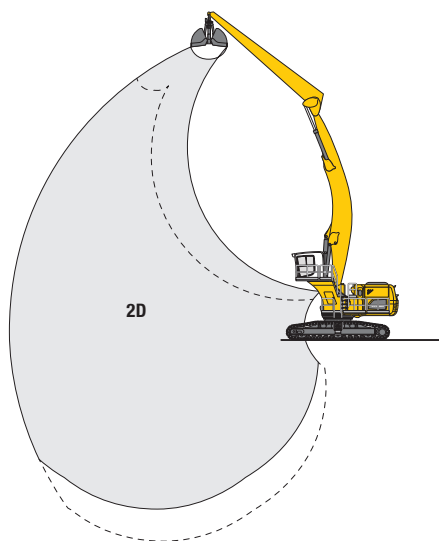
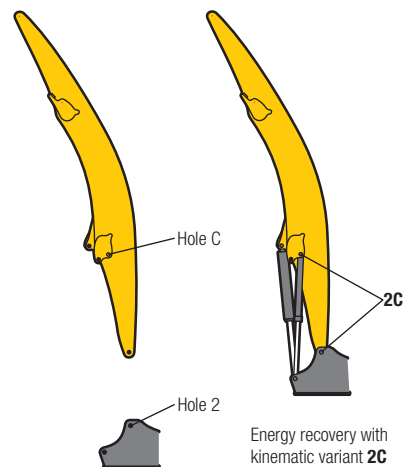
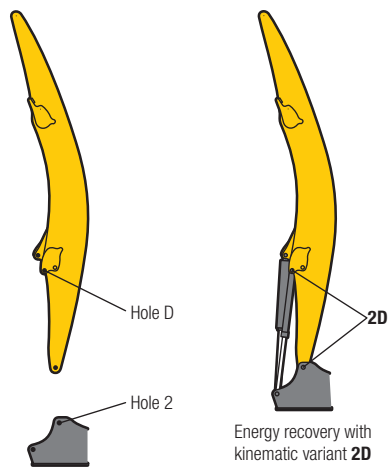
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Kinematic Variant 2A

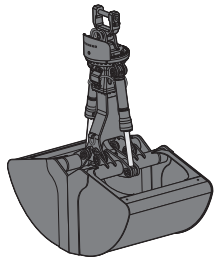


Kinematic Variant 2D/2C



Altered range curve with additional reach depth, e.g. for unloading from ships

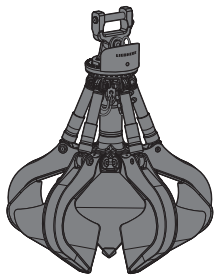
Working Tools



Shells for Loose Material

Shells for loose material with cutting edge (without teeth)

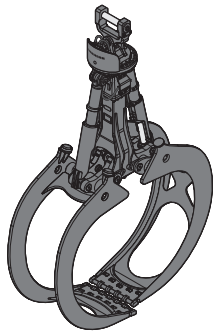
| Grab model GMZ 50 | | | | | | | | |
|---------------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| Width of shells | mm | 1,400 | 1,600 | 1,800 | 2,000 | 2,200 | 2,400 | 3,200 |
| Capacity | m ³ | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 8.00 |
| Loose material, specific weight up to | t/m ³ | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Weight | kg | 2,695 | 2,830 | 2,905 | 3,035 | 3,170 | 3,300 | 3,830 |
| Grab model GMZ 80 | | | | | | | | |
| Width of shells | mm | 1,300 | 1,500 | 1,750 | 2,000 | 2,200 | 2,600 | |
| Capacity | m ³ | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 6.00 | |
| Weight | kg | 2,515 | 2,630 | 2,775 | 2,920 | 3,040 | 3,275 | |
| Grab model GMZ 120 | | | | | | | | |
| Width of shells | mm | 1,600 | 1,800 | 2,000 | 2,200 | 2,400 | 2,800 | 2,800 |
| Capacity | m ³ | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 7.00 | 10.00 |
| Weight | kg | 3,040 | 3,135 | 3,295 | 3,425 | 3,545 | 3,825 | 4,160 |



Multi-Tine Grab

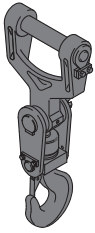
closed

| Grab model GMM 120-5 (5 tines) | | | | | |
|---------------------------------------|----------------|------|------|------|------|
| Capacity | m ³ | 1.70 | 2.00 | 2.50 | 3.00 |
| Weight | kg | | | | |



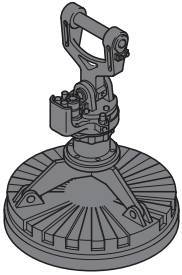
Wood Grab

| Grab model GMH 50 round-shaped (overlapping, horizontal cylinders) | | | | | | |
|---|----------------|-------|-------|-------|-------|-------|
| Size | m ² | 2.50 | 2.50 | 2.80 | 3.20 | 3.60 |
| Cutting width | mm | 870 | 1,000 | 1,000 | 1,000 | 1,000 |
| Height of grab, closed | mm | 2,520 | 2,531 | 2,642 | 2,772 | 2,942 |
| Weight | kg | 2,115 | 2,190 | 2,270 | 2,330 | 2,390 |
| Grab model GMH 50 heart-shaped (tip to tip tong, straight design, horizontal cylinders) | | | | | | |
| Size | m ² | 2.20 | 2.50 | 2.80 | 3.20 | 3.60 |
| Cutting width | mm | 1,000 | 1,000 | 1,000 | 1,000 | 870 |
| Height of grab, closed | mm | 2,615 | 2,745 | 2,862 | 2,996 | 3,114 |
| Weight | kg | 2,265 | 2,320 | 2,380 | 2,450 | 2,520 |
| Grab model GMH 80 round-shaped (complete overlapping, vertical cylinders) | | | | | | |
| Size | m ² | 1.60 | 1.90 | 2.20 | 2.50 | |
| Cutting width | mm | 870 | 870 | 870 | 870 | |
| Height of grab, closed | mm | 3,202 | 3,332 | 3,487 | 3,582 | |
| Weight | kg | 2,195 | 2,240 | 2,255 | 2,315 | |
| Grab model GMH 120 round-shaped (complete overlapping, vertical cylinders) | | | | | | |
| Size | m ² | 2.80 | 3.20 | | | |
| Cutting width | mm | 870 | 870 | | | |
| Height of grab, closed | mm | 3,851 | 4,007 | | | |
| Weight | kg | 2,405 | 2,765 | | | |
| Grab model GMH 120 round-shaped (complete overlapping, straight design, vertical cylinders, two over one grab) | | | | | | |
| Size | m ² | 1.40 | | | | |
| Cutting width | mm | 870 | | | | |
| Height of grab, closed | mm | 3,368 | | | | |
| Weight | kg | 2,525 | | | | |



Load Hook with Suspension

| | | |
|-----------|----|-----|
| Max. load | t | 25 |
| Weight | kg | 255 |



Magnet Devices/Lifting Magnets

| | | |
|---------------------------------------|----|-------|
| Generator | kW | 30 |
| Electromagnets with suspension | | |
| Power | kW | 22 |
| Diameter of magnet | mm | 1,900 |
| Weight | kg | 5,090 |

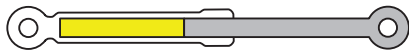
Liebherr ERC-System

Efficiency
as standard



ERC System – More performance, less consumption

Lowering the equipment stores energy in the ERC system. This stored energy is then made available to the machine to provide additional engine power. When the equipment is raised the stored energy is released and is reflected in powerful, homogeneous operating cycles. The result is a clear saving on fuel – and, at the same time, even greater performance.



1. Attachment fitting raised /
Energy released

B



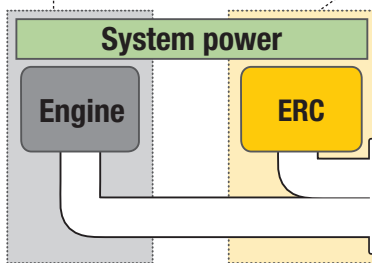
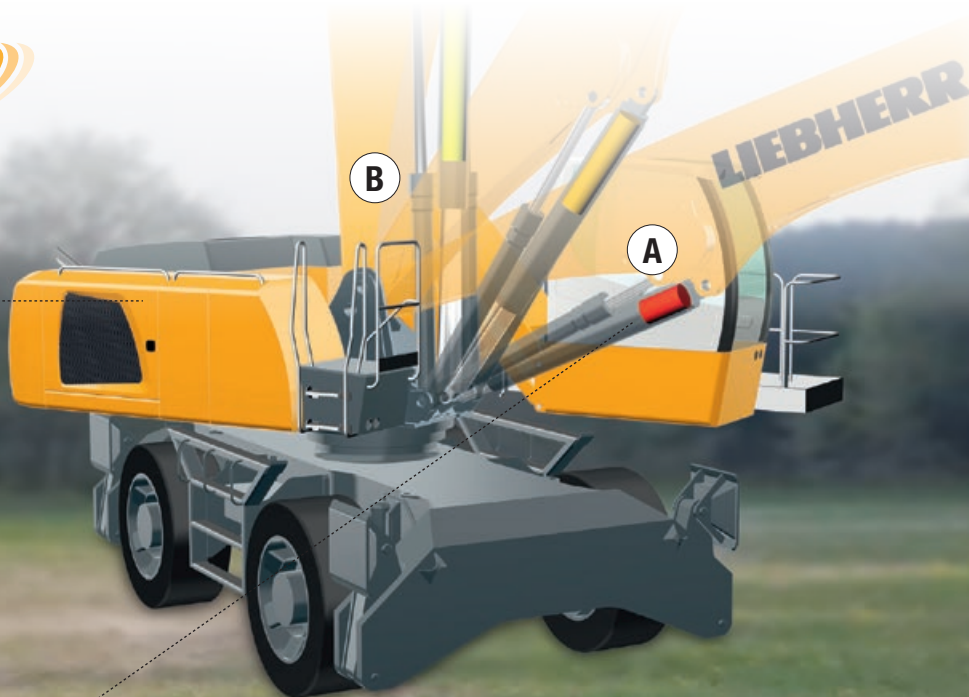
2. Lower attachment fitting / Store energy
4. Raise attachment fitting / Release energy



3. Attachment fitting lowered /
Energy stored

A

ERC

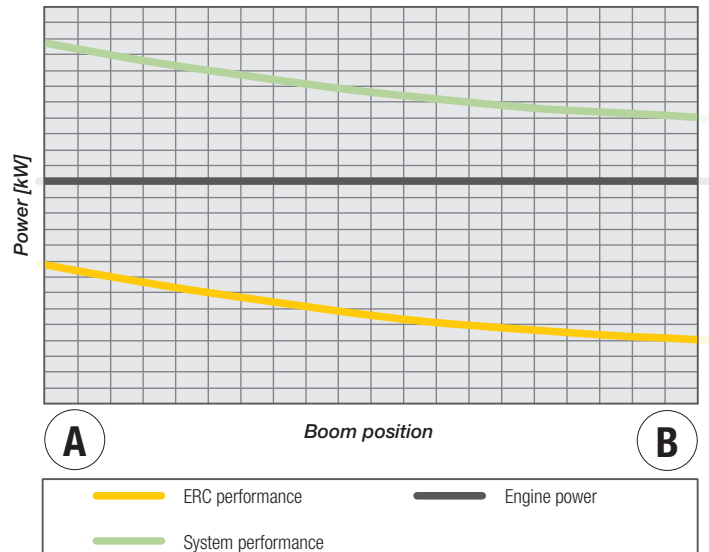


- increased overall power
- fuel savings of up to 30 %
- lower running costs
- reduced pollutant and noise emissions


System power


The energy recovery cylinder is a storage system which is independent of the diesel engine. The system performance of material handling machines fitted with the ERC system is composed of the installed engine power and the energy recovery cylinder. When the equipment is raised, energy from the ERC system is supplied in addition to the power from the diesel engine.


ERC-System




Equipment

|  Undercarriage | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|---|-------|----------|-------|----------|--------------|
| 6 steering axles, 2 powered and braked | | | • | • | |
| 8 steering axles, 2 powered and braked | | | + | + | |
| Support plates, variants | | | • | • | |
| Axle load monitoring | | | • | • | |
| Working lights on undercarriage, LED | | | • | • | • |
| Track pads, variants | + | + | | | + |
| Individual control outriggers | | | • | • | |
| Three-piece chain guide | • | • | | | • |
| Outrigger monitoring system | | | • | • | |
| Tyres, variants | | | + | + | |
| Warning beacons | | | • | • | |

|  Uppercarriage | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|---|-------|----------|-------|----------|--------------|
| Refuelling system, variants | + | + | + | + | + |
| Generator | + | + | + | + | + |
| Main battery switch for electrical system | • | • | • | • | • |
| Engine hood, hydraulic operable | • | • | • | • | • |
| Walk-in engine bay | • | • | • | • | • |
| Warning beacon on uppercarriage, LED | + | + | + | + | + |
| Side hood on the right, hydraulic operable | • | • | • | • | • |
| Tool equipment, extended | • | • | • | • | • |


|  Hydraulic System | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|--|-------|----------|-------|----------|--------------|
| Shut-off valve between hydraulic tank and pump(s) | • | • | • | • | • |
| Pressure test fittings | • | • | • | • | • |
| Accumulator for controlled lowering of the attachment with the engine shut down | • | • | • | • | • |
| Electronic pump regulation | • | • | • | • | • |
| Hydraulic oil filter with integrated microfilter | • | • | • | • | • |
| Liebherr hydraulic oil from -20 °C to +40 °C | • | • | • | • | • |
| Liebherr hydraulic oil, biologically degradable | + | + | + | + | + |
| Liebherr hydraulic oil, specially for warm or cold regions | + | + | + | + | + |
| Magnetic rod in hydraulic tank | • | • | • | • | • |
| Bypass filter | + | + | + | + | + |
| Preheating hydraulic oil | + | + | + | + | + |


|  Engine | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|--|-------|----------|-------|----------|--------------|
| Air pre-filter with dust discharge | + | + | + | + | + |
| Preheating fuel | + | + | + | + | + |
| Preheating coolant | + | + | + | + | + |
| Preheating engine oil | + | + | + | + | + |

|  Cooling System | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|--|-------|----------|-------|----------|--------------|
| Reversible fan drive, fully automatic | + | + | + | + | + |

• = Standard, + = Option
* = optionally extendable after one year

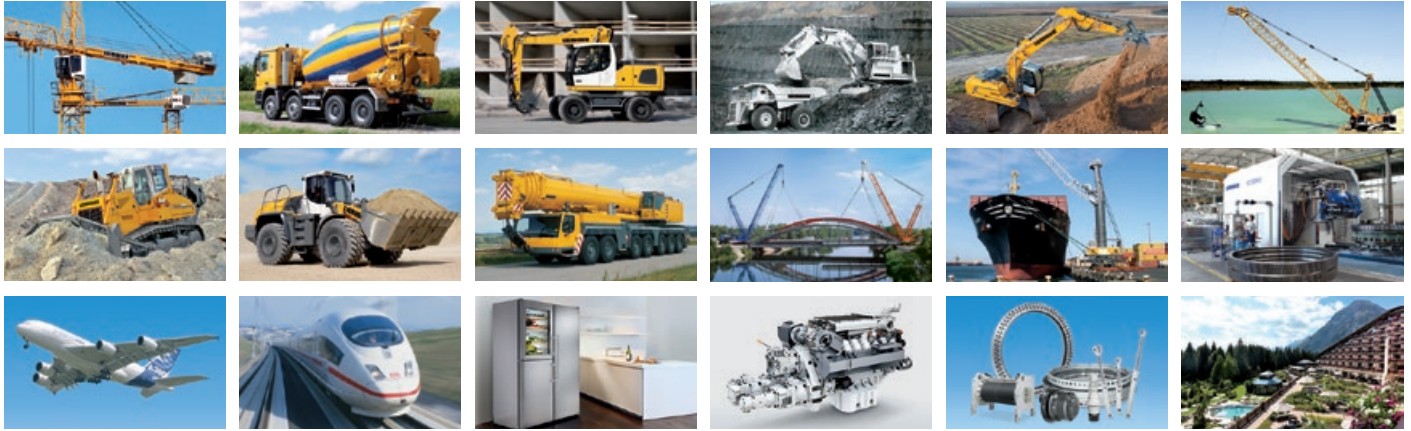
Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr in order to retain warranty.

|  Operator's Cab | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|--|-------|----------|-------|----------|--------------|
| Cab lights rear, LED | • | • | • | • | • |
| Cab lights front, LED (under rain cover) | • | • | • | • | • |
| Armrest adjustable | • | • | • | • | • |
| Circular bubble level | • | • | • | • | • |
| Driver profile, personalised (max. 5 drivers) | • | • | • | • | • |
| Operator's seat Comfort | • | • | • | • | • |
| Operator's seat Premium | + | + | + | + | + |
| Driving alarm (acoustic signal is emitted during travel, can be switched ON/OFF) | + | + | + | + | + |
| Fire extinguisher | • | • | • | • | • |
| Cab elevation, hydraulic with double parallelogram (LHC-D) | + | + | + | + | + |
| Cab elevation, rigid (LFC) | • | • | • | • | • |
| Automatic air conditioning | • | • | • | • | • |
| Electric cooler | • | • | • | • | • |
| LIDAT Plus (extended Liebherr data transfer system)* | • | • | • | • | • |
| Bullet proof glass (front, roof and bottom window) | • | • | • | • | • |
| Proportional control | • | • | • | • | • |
| Radio Comfort, control via display with handsfree set | + | + | + | + | + |
| Preparation for radio installation | • | • | • | • | • |
| Warning beacon on cab, LED | + | + | + | + | + |
| Top guard | + | + | + | + | + |
| Front guard | + | + | + | + | + |
| Auxiliary heating, adjustable (week time switch) | • | • | • | • | • |
| Flashing light (xenon) | + | + | + | + | + |

|  Attachment | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|--|-------|----------|-------|----------|--------------|
| Boom lights, 2 pieces, LED | • | • | • | • | • |
| Stick lights, 4 pieces, LED | • | • | • | • | • |
| Boom shutoff (retract/extend), electronically | • | • | • | • | • |
| AutoLift | + | + | + | + | + |
| Pressure warning mechanism hoist cylinder | • | • | • | • | • |
| ERC system | • | • | • | • | • |
| Boom cylinder cushioning | • | • | • | • | • |
| Industrial stick with quick coupling | + | + | + | + | + |
| Stick camera (with separate monitor), bottom side, with protection | + | + | + | + | + |
| Load torque limitation | + | + | + | + | + |
| Liebherr multi coupling system | + | + | + | + | + |
| Pipe fracture safety valves hoist cylinders | • | • | • | • | • |
| Pipe fracture safety valve stick cylinder | • | • | • | • | • |
| Protection for piston rod, energy recovering cylinder | + | + | + | + | + |
| Protection for bottom side of stick | + | + | + | + | + |
| Stick shutoff (retract/extend), electronically | • | • | • | • | • |
| Retract stick without pressure | • | • | • | • | • |
| Overload warning device | + | + | + | + | + |

|  Complete Machine | 150 C | 150 C HR | 150 M | 150 M HR | 150 C Gantry |
|--|-------|----------|-------|----------|--------------|
| Special coating, variants | + | + | + | + | + |
| Monitoring | | | | | |
| Rear view monitoring with camera | • | • | • | • | • |
| Side view monitoring with camera | + | + | + | + | + |

The Liebherr Group of Companies



Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical application.

State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with over 41,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.com

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