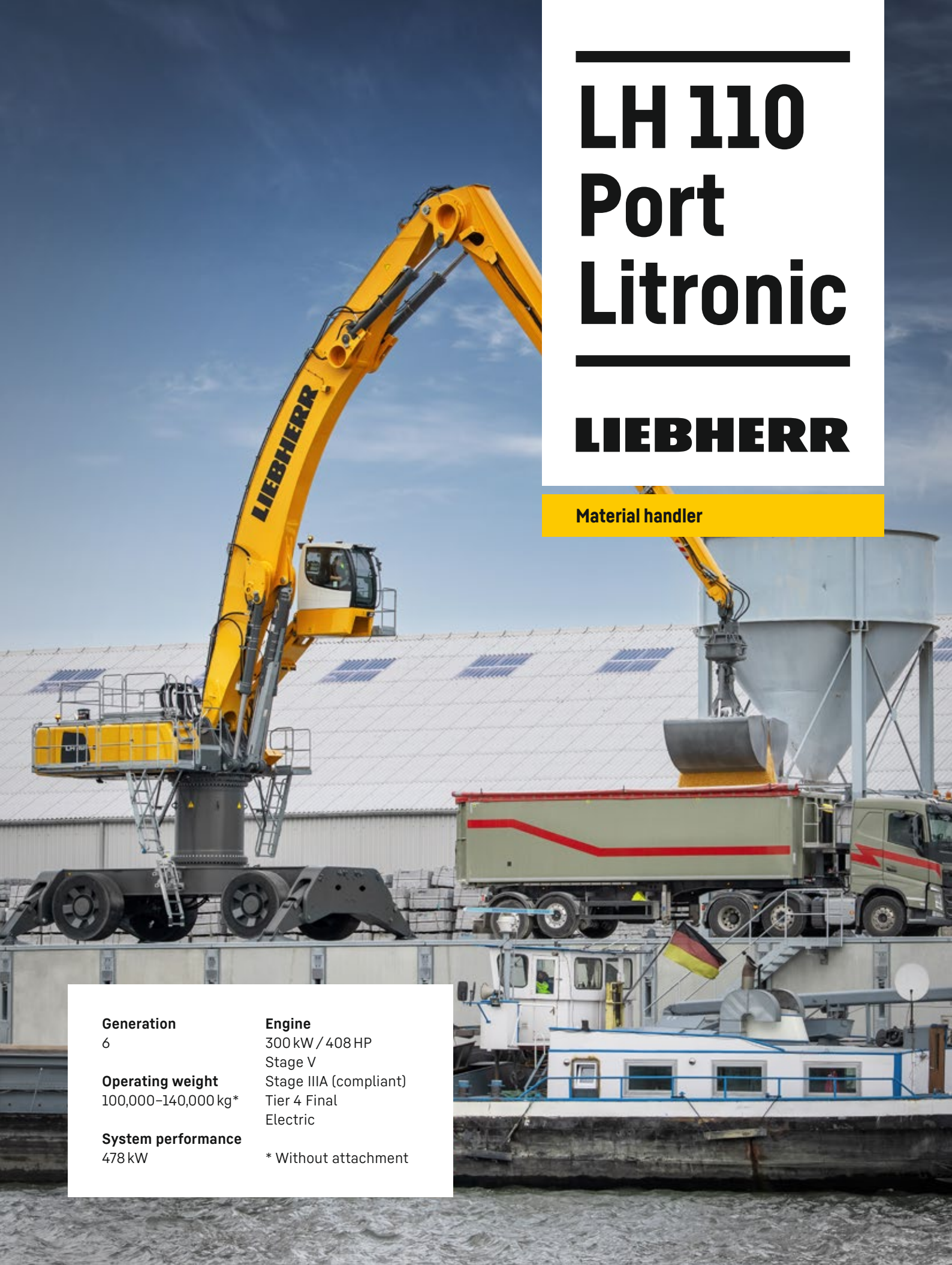


LH 110 Port Litronic

LIEBHERR

Material handler

Generation
6

Operating weight
100,000–140,000 kg*

System performance
478 kW

Engine
300 kW / 408 HP
Stage V
Stage IIIA (compliant)
Tier 4 Final
Electric

* Without attachment

Performance

Power plus speed –
Redefined performance

Economy

Good investment –
Savings for long-term

Reliability

Durability and sustainability –
Quality down to the last detail

Comfort

Perfection at a glance –
When technology is comfortable

Maintainability

Efficiency bonus –
Even with maintenance and service

LH 110 M
Port Litronic

Operating weight
100,000–110,000 kg*
Engine
300 kW / 408 HP
Stage V
Stage IIIA (compliant)
Tier 4 Final
System performance
478 kW

LH 110 C
Port Litronic

Operating weight
105,000–125,000 kg*
Engine
300 kW / 408 HP (Diesel)
300 kW (Electric)
Stage V
Stage IIIA (compliant)
Tier 4 Final
Electric
System performance
478 kW

* Without attachment

LH 110 M High Rise Port Litronic

Operating weight
105,000–115,000 kg*
Engine
300 kW / 408 HP
Stage V
Stage IIIA (compliant)
Tier 4 Final
System performance
478 kW

LH 110 C High Rise Port Litronic

Operating weight
110,000–130,000 kg*
Engine
300 kW / 408 HP (Diesel)
300 kW (Electric)
Stage V
Stage IIIA (compliant)
Tier 4 Final
Electric
System performance
478 kW

LH 110 C Gantry Port Litronic

Operating weight
120,000–140,000 kg*
Engine
300 kW / 408 HP (Diesel)
300 kW (Electric)
Stage V
Stage IIIA (compliant)
Tier 4 Final
Electric
System performance
478 kW

Technical data

Diesel engine

Rating per ISO 9249	300 kW (408 HP) at 1,800 RPM
Model	Liebherr D946
Type	6 cylinder in-line
Bore / Stroke	130 / 150 mm
Displacement	11.95 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	2 x 180 Ah / 12 V
Alternator	Three-phase current 28 V / 140 A
Stage V	
Harmful emissions values	According to regulation (EU) 2016/1628
Emission control	Liebherr-SCRFilter technology
Fuel tank	1,360 l
Urea tank	180 l
Stage IIIA (compliant)	
Harmful emissions values	In accordance with ECE-R.96 Power Band H
Fuel tank	1,360 l
Tier 4 Final	
Harmful emissions values	In accordance with 40CFR1039 (EPA) / 13CCR (CARB)
Emission control	Liebherr-SCRFilter technology
Fuel tank	1,360 l
Urea tank	180 l

Electric motor

Rating	300 kW at 1,700 RPM
Model	Liebherr KGF1182/6
Type	Three-phase squirrel cage motor
Secondary electric motor	Electric motor auxiliary equipment (air-conditioning compressor, alternator 24 V) 15 kW
Electrical system energy supply	Liebherr drive components and control cabinets for uppercarriage and undercarriage Liebherr frequency converter fed drive system Heavy-duty version
Manufacturer	Liebherr
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

Deviating parameters of the power supply system must always be clarified with Liebherr-Hydraulikbagger GmbH.

Cooling system

Diesel engine	Water-cooled Cooling system, consisting of a cooling unit for water and charge air and a 2nd 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 equipment. Swing drive in separate closed circuit
Servo circuit	
Equipment and swing	With electro-hydraulic pilot control and proportional joystick levers
Chassis	With electric proportionally functioning foot pedals or adjusted with plugable levers
Additional functions	Via switch or electro-proportional foot pedals
Proportional control	Proportionally acting transmitters on the joysticks for additional hydraulic functions

Hydraulic system

Hydraulic pump	
For equipment and travel drive	2 Liebherr axial piston variable displacement pumps (double construction)
Max. flow	2 x 462 l/min.
Max. pressure	350 bar
For swing drive	Reversible axial piston variable displacement pump, closed-loop circuit
Max. flow	355 l/min.
Max. pressure	345 bar
Hydraulic pump regulation and control	2 circuit Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, automatic oil flow optimizer
Hydraulic tank	455 l
Hydraulic system	1,175 l
Filtration	2 main return filters with integrated partial micro filtration (5 µm)
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
Engine speed and performance setting	Stepless alignment of engine output and hydraulic power via engine speed
Option	Tool Control: 20 pre-adjustable pump flows and pressures for add-on attachments

Swing drive

Drive	Liebherr axial piston motor in a closed system, Liebherr planetary reduction gear
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0–6.5 RPM stepless
Swing torque	200 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)
Option	Slewing gear brake Comfort

Cab

Cab	Safety cab structure with fixed built-in front and roof window made from impact-resistant laminated safety glass, headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate shades for the sunroof window and windscreen
Operator's seat Comfort	Air cushioned operator's seat with 3D-adjustable armrests, 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
Operator's seat Premium (Option)	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
Arm consoles	Joysticks with control consoles and swivel seat, folding left control console
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 attachment 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: stationary air conditioning function with external climate condenser – controlled by a weekly timer
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C*	1,500–2,000 g
CO_2 equivalent*	2.145–2.86 t
Vibration emission**	
Hand / arm vibrations	< 2.5 m/s²
Whole-body vibrations	< 0.5 m/s²
Measuring inaccuracy	According with standard EN 12096:1997

Undercarriage

Mobile	
Versions	Standard, High Rise
Drive	One driven axle with transmission with Liebherr axial piston motor and functional brake valve on both sides
Travel speed	0–8.0 km/h stepless
Joystick steering	0–5.0 km/h stepless (creeper speed)
Driving operation	Automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions
Axles	90 t drive axles; manual or automatic hydraulically controlled front axle oscillation lock
Service brake	Two circuit travel brake system with accumulator; wet and backlash-free disc brake
Holding brake	Wet multi-disc (spring applied, pressure released)
Stabilization	4 point outriggers
Crawler	
Versions	SW, High Rise, Gantry
Drive	Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage
Travel speed	0–4.0 km/h stepless 0–2.6 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

Equipment

Type	Weight-optimised design for bulk and general cargo handling at optimal handling capacity. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Energy recovering cylinder	Liebherr gas cylinder with special sealing and control system
Bearings	Sealed, low maintenance

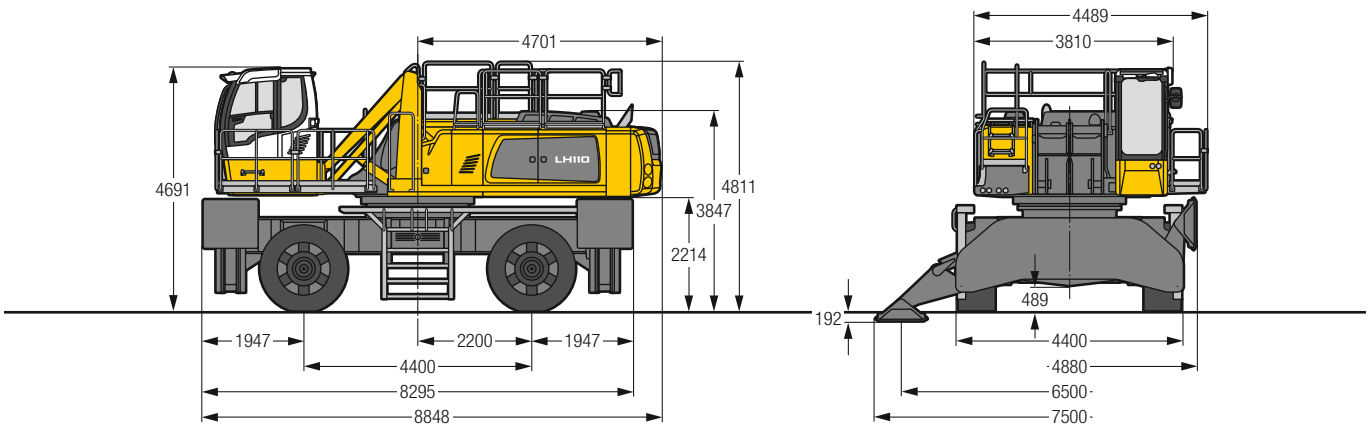
Complete machine

Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Mobile (Option)	Liebherr central lubrication system for undercarriage, automatically
Steps system	Safe and durable access system with anti-slip steps; main components hot-galvanised
Noise emission	
ISO 6396	70 dB(A) = L_{pA} (inside cab)
2000/14/EC	107 dB(A) = L_{WA} (surround noise)

* depending on configuration
** for risk assessment according to 2002/44/EC see ISO/TR 25398:2006

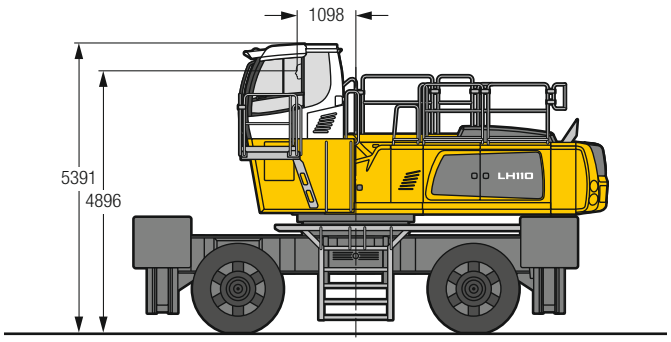
LH 110 M – Dimensions

Port



LH 110 M – Choice of cab elevation

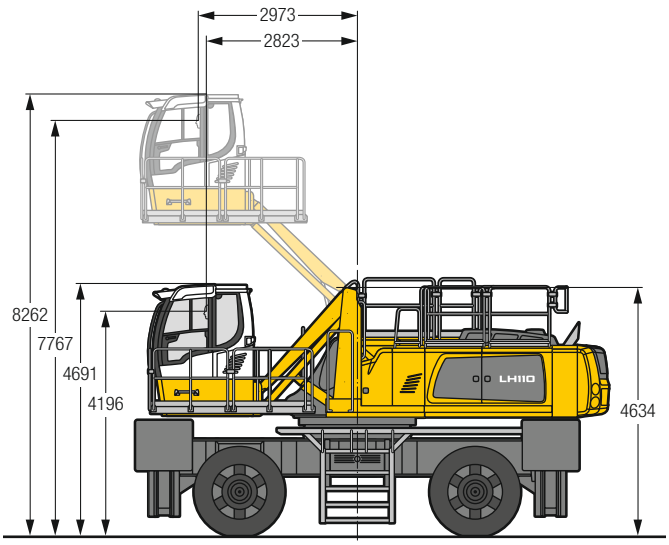
Cab elevation LFC (rigid elevation)



Cab elevation	LFC 120

If a lower transport height is required, the rigid cab elevation must be replaced with a transport device. The height with the transport device for this machine version is 4,495 mm.

Cab elevation LHC (hydraulic elevation)



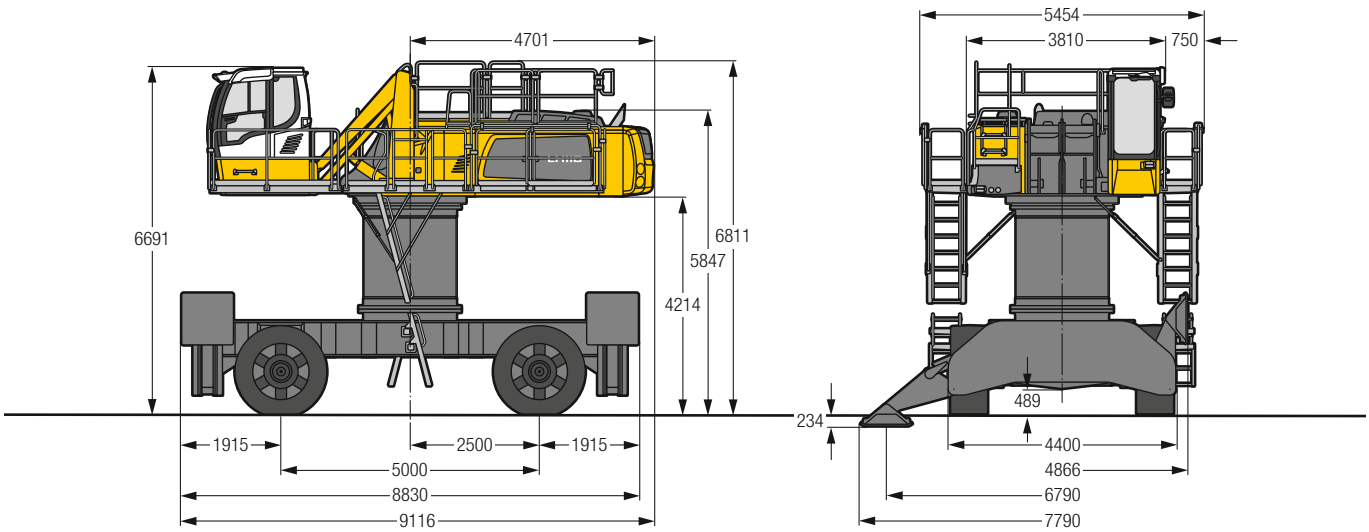
Cab elevation	LHC 360-50

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

Tyres 26.5-66

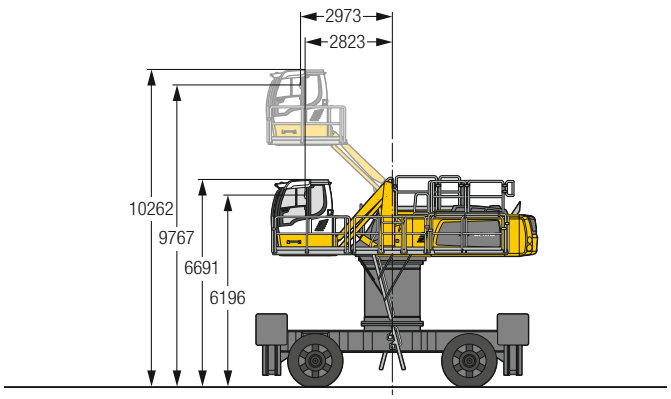
LH 110 M HR – Dimensions

Port



LH 110 M HR – Choice of cab elevation

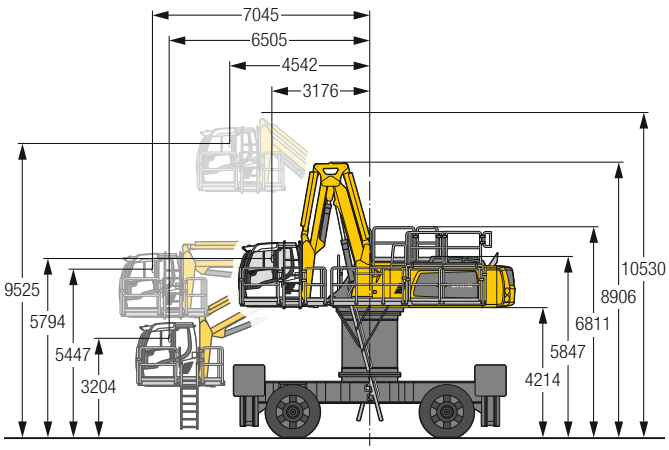
Cab elevation LHC (hydraulic elevation)



Cab elevation **LHC 360-50**

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

Cab elevation LHC-D (hydraulic elevation)



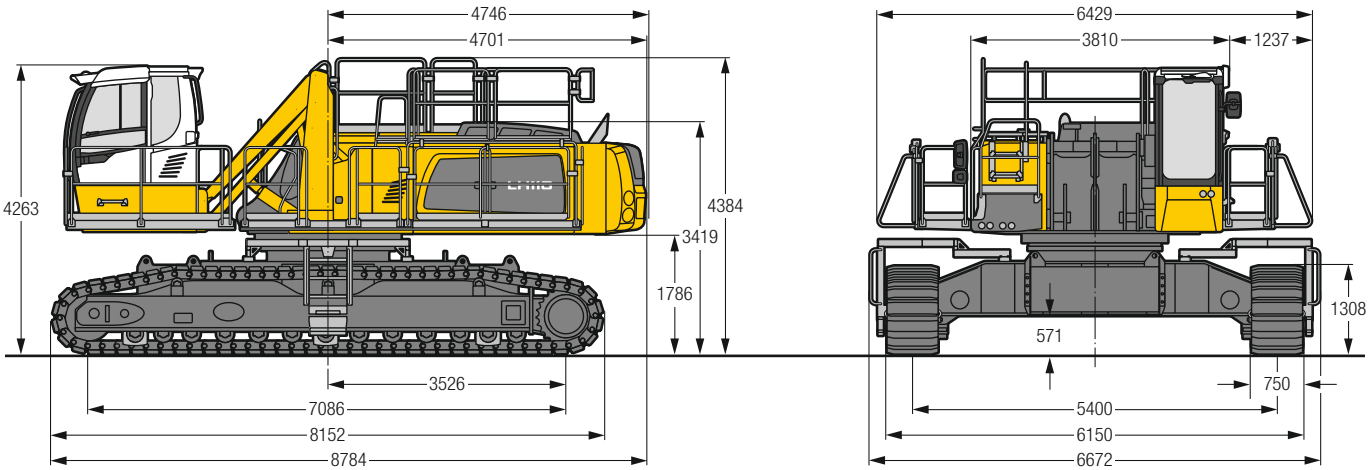
Cab elevation **LHC-D 730**

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

Tyres 28.00-69

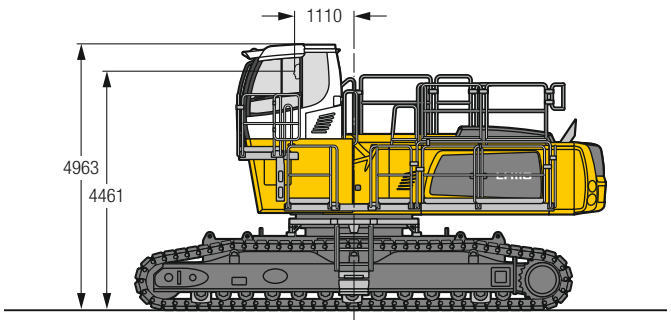
LH 110 C – Dimensions

Port



LH 110 C – Choice of cab elevation

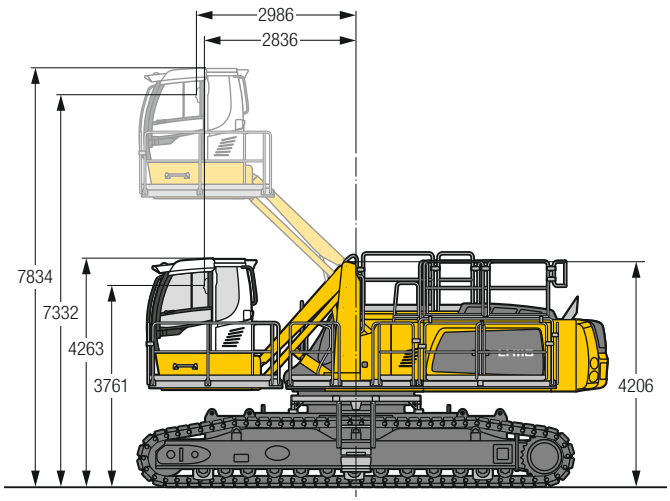
Cab elevation LFC (rigid elevation)



Cab elevation **LFC 120**

If a lower transport height is required, the rigid cab elevation must be replaced with a transport device. The height with the transport device for this machine version is 4,067 mm.

Cab elevation LHC (hydraulic elevation)

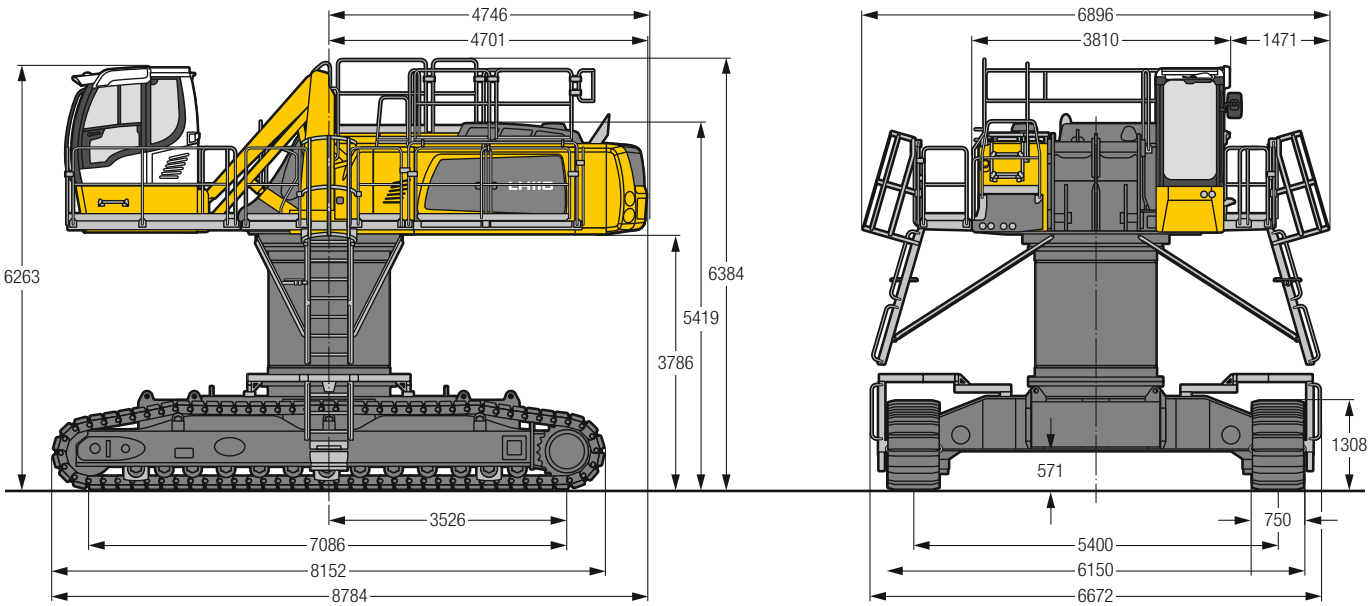


Cab elevation **LHC 360-50**

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

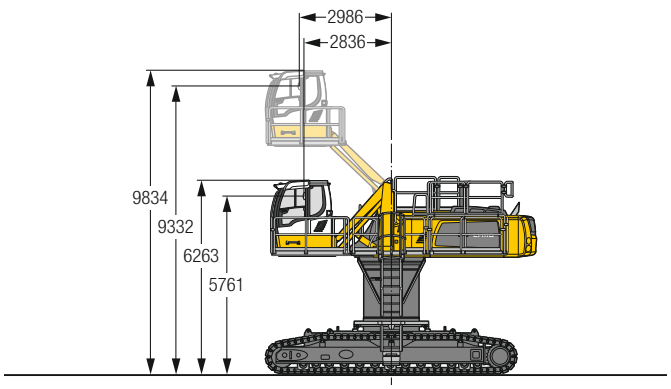
LH 110 C HR – Dimensions

Port



LH 110 C HR – Choice of cab elevation

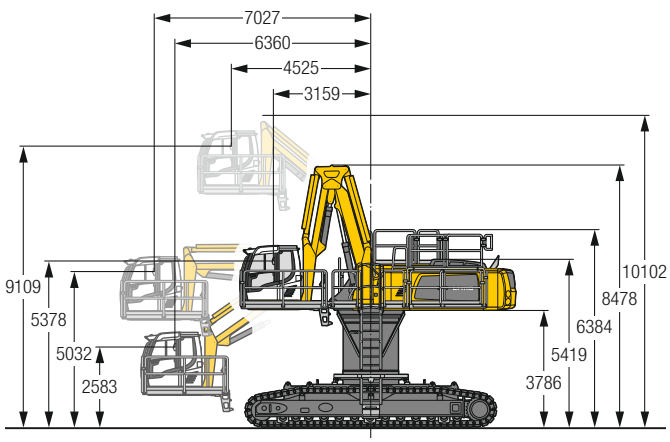
Cab elevation LHC (hydraulic elevation)



Cab elevation **LHC 360-50**

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

Cab elevation LHC-D (hydraulic elevation)

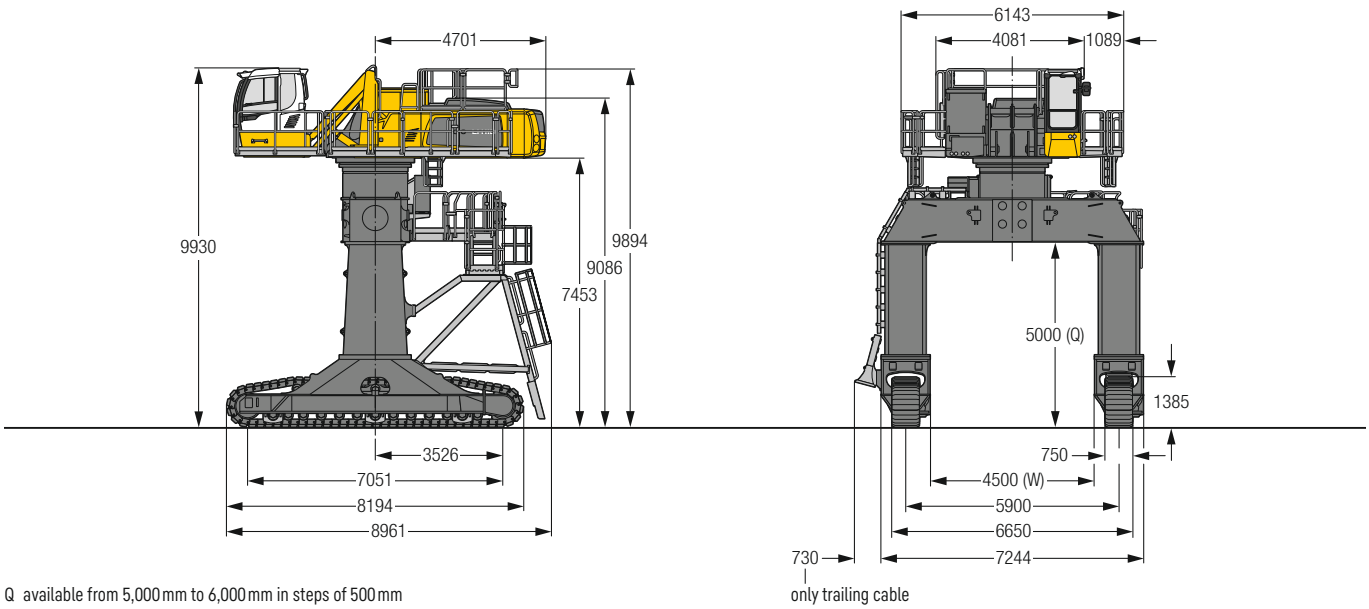


Cab elevation **LHC-D 730**

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

LH 110 C Gantry – Dimensions

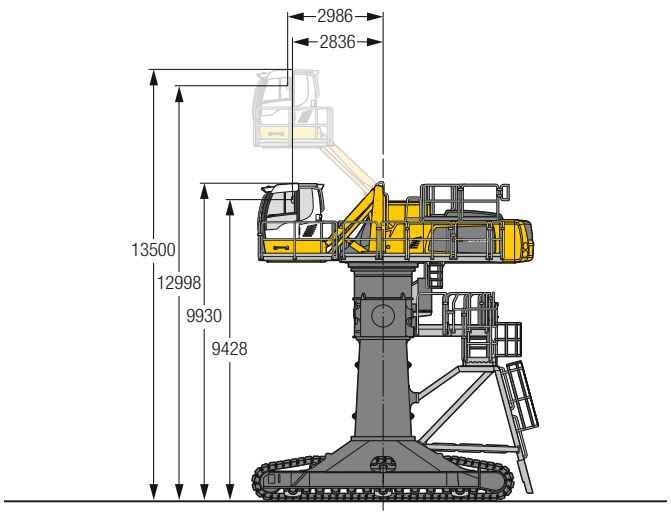
Port



Q available from 5,000 mm to 6,000 mm in steps of 500 mm
W available from 4,500 mm to 9,000 mm in steps of 500 mm

LH 110 C Gantry – Choice of cab elevation

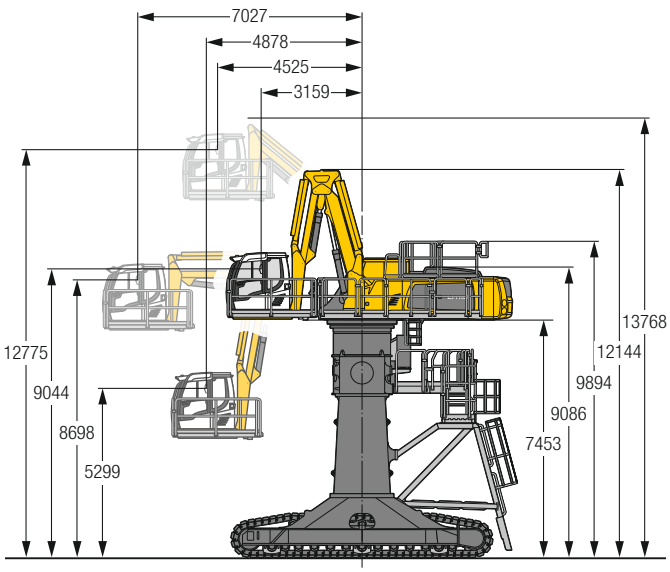
Cab elevation LHC (hydraulic elevation)



Cab elevation **LHC 360-50**

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

Cab elevation LHC-D (hydraulic elevation)

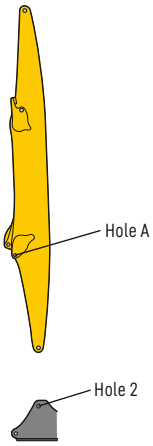


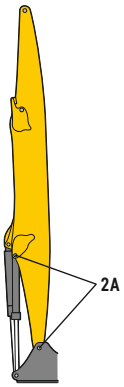
Cab elevation **LHC-D 730**

The hydraulically adjustable cab elevation allows the operator to choose his field of view freely and at any time within the stroke.

Kinematic variants

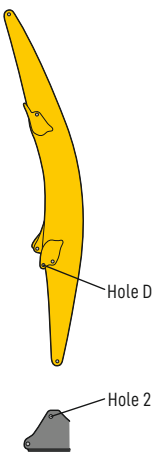
Kinematic variant 2A

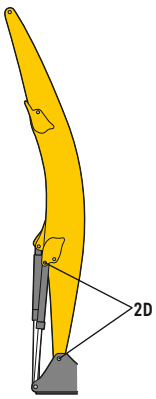




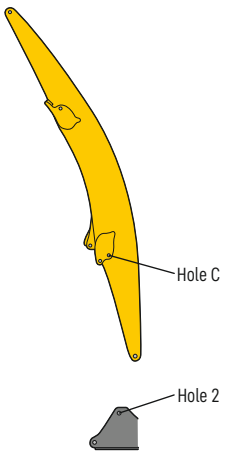
Energy recovery with kinematic variant **2A**

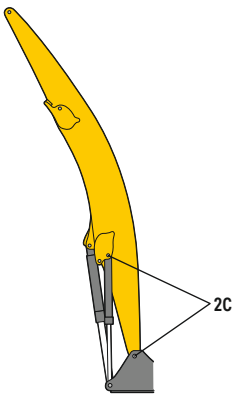
Kinematic variant 2D / 2C



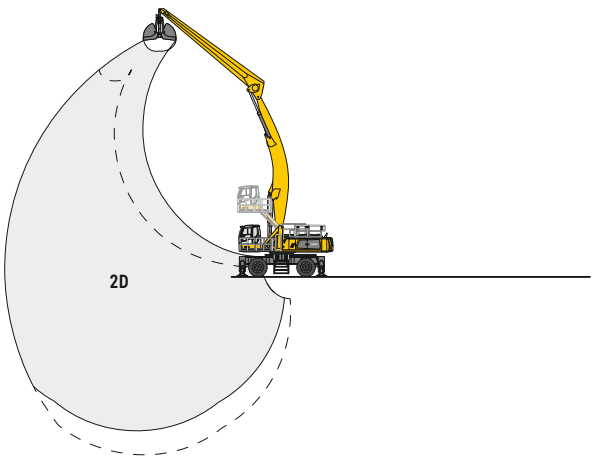


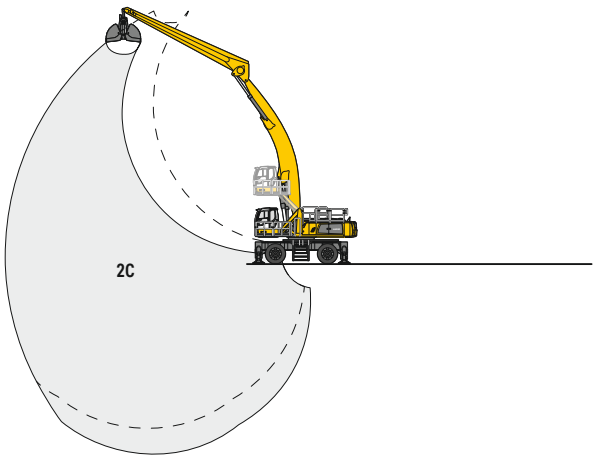
Energy recovery with kinematic variant **2D**





Energy recovery with kinematic variant **2C**

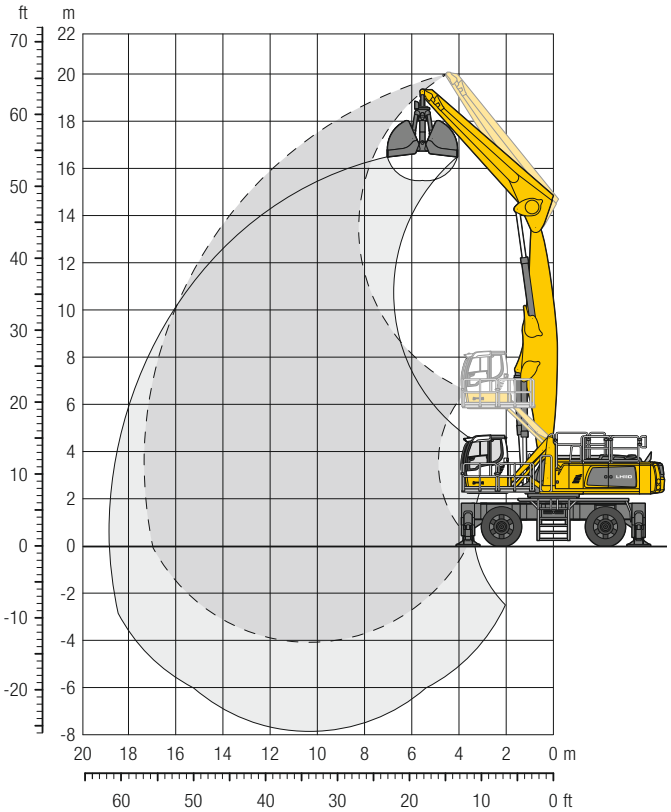




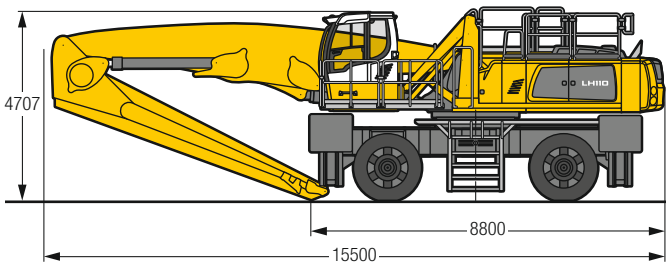
Altered range curve with additional reach depth, e.g. for unloading from ships

LH 110 M – Equipment GG17

Port – Kinematic 2A



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 10.00 m, straight stick 7.50 m and clamshell grab GMZ 120 / 8.00 m³.

Weight	100,900 kg

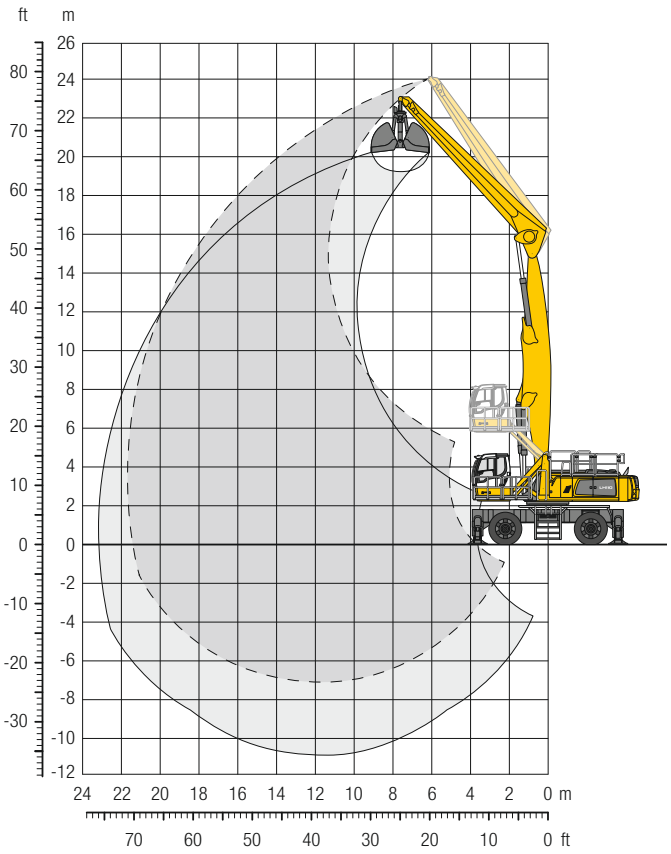
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m			m
24.0	4 pt. outriggers down																															
22.5	4 pt. outriggers down																															
21.0	4 pt. outriggers down																															
19.5	4 pt. outriggers down	25.5*	25.5*																											24.9*	24.9*	6.1
18.0	4 pt. outriggers down			26.0*	26.0*	20.7*	20.7*																							19.4*	19.4*	9.2
16.5	4 pt. outriggers down					24.2*	24.2*	21.1*	21.1*																					17.0*	17.0*	11.3
15.0	4 pt. outriggers down					23.4*	23.4*	21.7*	21.7*	20.4*	20.4*																			15.7*	15.7*	12.9
13.5	4 pt. outriggers down					23.1*	23.1*	21.3*	21.3*	20.0*	20.0*	18.6*	18.6*																	14.8*	14.8*	14.1
12.0	4 pt. outriggers down					23.3*	23.3*	21.4*	21.4*	19.9*	19.9*	18.8*	18.8*	14.9*	14.9*															14.3*	14.3*	15.1
10.5	4 pt. outriggers down					23.9*	23.9*	21.8*	21.8*	20.1*	20.1*	18.8*	18.8*	17.8*	17.8*															13.9*	13.9*	15.8
9.0	4 pt. outriggers down			28.1*	28.1*	24.9*	24.9*	22.5*	22.5*	20.6*	20.6*	19.1*	19.1*	17.8*	17.8*															13.8*	13.8*	16.4
7.5	4 pt. outriggers down	35.6*	35.6*	30.1*	30.1*	26.2*	26.2*	23.4*	23.4*	21.2*	21.2*	19.4*	19.4*	18.0*	18.0*	16.7*	16.7*													13.7*	13.7*	16.9
6.0	4 pt. outriggers down	40.0*	40.0*	32.6*	32.6*	27.8*	27.8*	24.4*	24.4*	21.9*	21.9*	19.9*	19.9*	18.2*	18.2*	16.7*	16.7*													13.8*	13.8*	17.2
4.5	4 pt. outriggers down	44.5*	44.5*	35.3*	35.3*	29.5*	29.5*	25.5*	25.5*	22.6*	22.6*	20.3*	20.3*	18.4*	18.4*	16.6*	16.6*													14.0*	14.0*	17.3
3.0	4 pt. outriggers down	38.5*	38.5*	37.6*	37.6*	31.0*	31.0*	26.5*	26.5*	23.2*	23.2*	20.6*	20.6*	18.5*	18.5*	16.5*	16.5*													14.4*	14.4*	17.3
1.5	4 pt. outriggers down	21.7*	21.7*	39.0*	39.0*	32.0*	32.0*	27.1*	27.1*	23.6*	23.6*	20.8*	20.8*	18.4*	18.4*	16.0*	16.0*													14.4*	14.4*	17.2
0	4 pt. outriggers down	19.3*	19.3*	39.2*	39.2*	32.2*	32.2*	27.2*	27.2*	23.5*	23.5*	20.5*	20.5*	17.9*	17.9*	14.9*	14.9*													13.6*	13.6*	17.0
-1.5	4 pt. outriggers down	20.3*	20.3*	37.8*	37.8*	31.4*	31.4*	26.6*	26.6*	22.9*	22.9*	19.7*	19.7*	16.7*	16.7*															14.5*	14.5*	16.0
-3.0	4 pt. outriggers down			34.7*	34.7*	29.3*	29.3*	25.0*	25.0*	21.3*	21.3*	18.0*	18.0*																	16.5*	16.5*	14.2
-4.5	4 pt. outriggers down																															
-6.0	4 pt. outriggers down																															

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

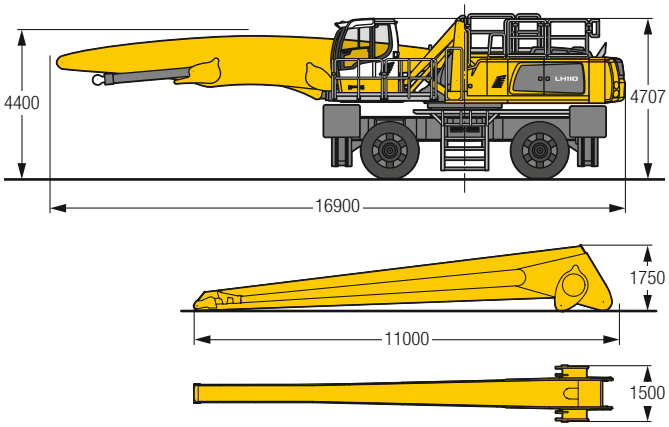
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 M – Equipment GG22

Port – Kinematic 2A



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 11.50 m, straight stick 10.50 m and clamshell grab GMZ 120 / 6.00 m³.

Weight	102,000 kg

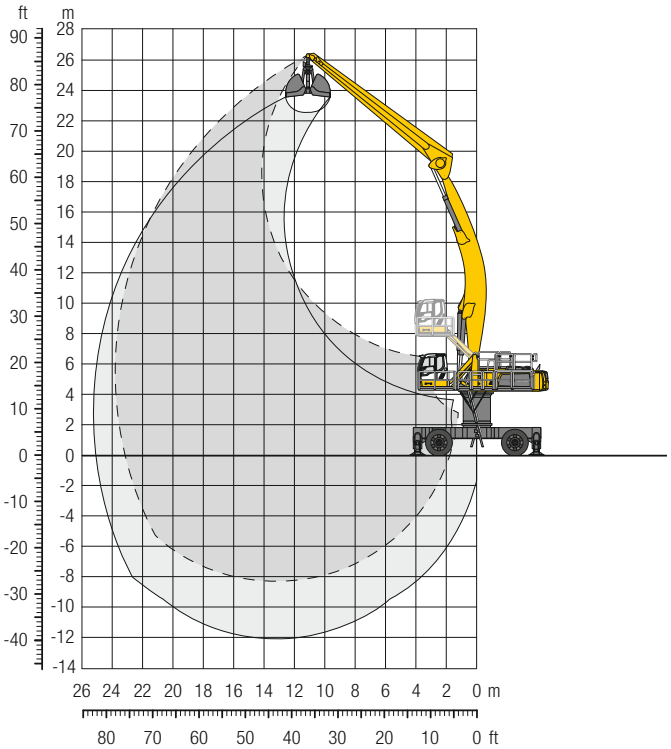
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m		m
24.0	4 pt. outriggers down																													19.8*	19.8*	**6.3**
22.5	4 pt. outriggers down					17.7*	17.7*																							14.9*	14.9*	**10.1**
21.0	4 pt. outriggers down							17.6*	17.6*	14.6*	14.6*																			12.8*	12.8*	**12.6**
19.5	4 pt. outriggers down							18.6*	18.6*	17.3*	17.3*	14.5*	14.5*																	11.6*	11.6*	**14.5**
18.0	4 pt. outriggers down									16.7*	16.7*	15.8*	15.8*	14.0*	14.0*															10.8*	10.8*	**16.0**
16.5	4 pt. outriggers down									16.4*	16.4*	15.5*	15.5*	14.7*	14.7*	13.0*	13.0*													10.3*	10.3*	**17.3**
15.0	4 pt. outriggers down									16.3*	16.3*	15.3*	15.3*	14.5*	14.5*	13.8*	13.8*	11.2*	11.2*											9.9*	9.9*	**18.3**
13.5	4 pt. outriggers down									16.4*	16.4*	15.4*	15.4*	14.5*	14.5*	13.8*	13.8*	13.2*	13.2*											9.6*	9.6*	**19.2**
12.0	4 pt. outriggers down									16.6*	16.6*	15.5*	15.5*	14.6*	14.6*	13.8*	13.8*	13.1*	13.1*	11.3*	11.3*									9.4*	9.4*	**19.9**
10.5	4 pt. outriggers down							18.4*	18.4*	17.0*	17.0*	15.8*	15.8*	14.8*	14.8*	13.9*	13.9*	13.2*	13.2*	12.5*	12.5*									9.3*	9.3*	**20.5**
9.0	4 pt. outriggers down							19.2*	19.2*	17.5*	17.5*	16.2*	16.2*	15.1*	15.1*	14.1*	14.1*	13.3*	13.3*	12.5*	12.5*									9.3*	9.3*	**21.0**
7.5	4 pt. outriggers down					22.5*	22.5*	20.1*	20.1*	18.2*	18.2*	16.7*	16.7*	15.4*	15.4*	14.4*	14.4*	13.4*	13.4*	12.6*	12.6*	10.9*	10.9*							9.3*	9.3*	**21.3**
6.0	4 pt. outriggers down			26.6*	26.6*	24.0*	24.0*	21.2*	21.2*	19.0*	19.0*	17.2*	17.2*	15.8*	15.8*	14.6*	14.6*	13.6*	13.6*	12.7*	12.7*	11.7*	11.7*							9.4*	9.4*	**21.5**
4.5	4 pt. outriggers down	37.8*	37.8*	30.5*	30.5*	25.7*	25.7*	22.3*	22.3*	19.8*	19.8*	17.8*	17.8*	16.2*	16.2*	14.9*	14.9*	13.8*	13.8*	12.7*	12.7*	11.7*	11.7*							9.5*	9.5*	**21.7**
3.0	4 pt. outriggers down	41.9*	41.9*	33.0*	33.0*	27.3*	27.3*	23.4*	23.4*	20.6*	20.6*	18.4*	18.4*	16.6*	16.6*	15.2*	15.2*	13.9*	13.9*	12.8*	12.8*	11.5*	11.5*							9.7*	9.7*	**21.7**
1.5	4 pt. outriggers down	24.1*	24.1*	35.0*	35.0*	28.7*	28.7*	24.4*	24.4*	21.2*	21.2*	18.8*	18.8*	16.9*	16.9*	15.3*	15.3*	14.0*	14.0*	12.7*	12.7*	11.2*	11.2*							9.9*	9.9*	**21.6**
0	4 pt. outriggers down	15.5*	15.5*	36.3*	36.3*	29.6*	29.6*	25.1*	25.1*	21.7*	21.7*	19.1*	19.1*	17.1*	17.1*	15.4*	15.4*	13.9*	13.9*	12.4*	12.4*	10.7*	10.7*							10.0*	10.0*	**21.4**
-1.5	4 pt. outriggers down	14.1*	14.1*	26.8*	26.8*	30.0*	30.0*	25.3*	25.3*	21.9*	21.9*	19.2*	19.2*	17.1*	17.1*	15.2*	15.2*	13.6*	13.6*	11.9*	11.9*	9.7*	9.7*							9.5*	9.5*	**21.1**
-3.0	4 pt. outriggers down	14.4*	14.4*	23.9*	23.9*	29.6*	29.6*	25.1*	25.1*	21.7*	21.7*	19.0*	19.0*	16.8*	16.8*	14.8*	14.8*	13.0*	13.0*	11.0*	11.0*									10.0*	10.0*	**20.1**
-4.5	4 pt. outriggers down	15.5*	15.5*	23.5*	23.5*	28.4*	28.4*	24.2*	24.2*	21.0*	21.0*	18.3*	18.3*	16.0*	16.0*	14.0*	14.0*	12.0*	12.0*											10.8*	10.8*	**18.7**
-6.0	4 pt. outriggers down			24.2*	24.2*	26.2*	26.2*	22.5*	22.5*	19.5*	19.5*	17.0*	17.0*	14.7*	14.7*															12.6*	12.6*	**16.5**

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

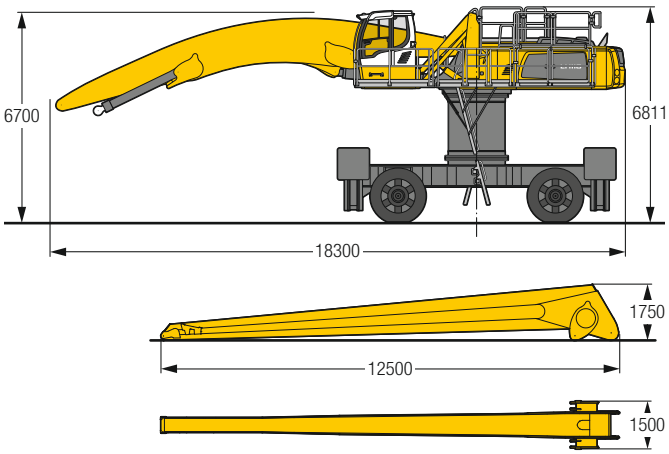
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 M HR – Equipment AG24

Port – Kinematic 2D



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, turret 2,000 mm, hydr. cab elevation, 4 solid tyres, angled boom 13.00 m, straight stick 12.00 m and clamshell grab GMZ 120 / 5.00 m³.

Weight	111,000 kg

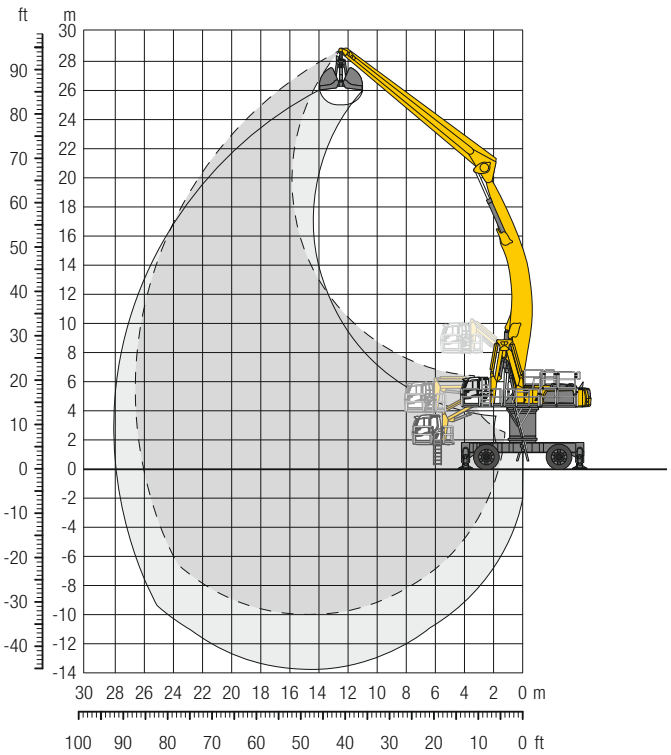
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m		m
28.5	4 pt. outriggers down																													
27.0	4 pt. outriggers down																													
25.5	4 pt. outriggers down									11.6*	11.6*																	10.4*	10.4*	12.7
24.0	4 pt. outriggers down											11.8*	11.8*															9.5*	9.5*	14.9
22.5	4 pt. outriggers down											11.8*	11.8*	11.3*	11.3*	9.1*	9.1*											8.9*	8.9*	16.6
21.0	4 pt. outriggers down													11.0*	11.0*	10.6*	10.6*	8.5*	8.5*									8.5*	8.5*	18.0
19.5	4 pt. outriggers down													10.9*	10.9*	10.4*	10.4*	10.0*	10.0*									8.2*	8.2*	19.2
18.0	4 pt. outriggers down													10.8*	10.8*	10.3*	10.3*	9.9*	9.9*	9.6*	9.6*							8.1*	8.1*	20.2
16.5	4 pt. outriggers down													10.9*	10.9*	10.4*	10.4*	9.9*	9.9*	9.6*	9.6*	8.2*	8.2*					7.9*	7.9*	21.1
15.0	4 pt. outriggers down													11.0*	11.0*	10.5*	10.5*	10.0*	10.0*	9.6*	9.6*	9.3*	9.3*					7.9*	7.9*	21.8
13.5	4 pt. outriggers down											11.9*	11.9*	11.2*	11.2*	10.6*	10.6*	10.1*	10.1*	9.7*	9.7*	9.3*	9.3*					7.9*	7.9*	22.4
12.0	4 pt. outriggers down											12.3*	12.3*	11.5*	11.5*	10.9*	10.9*	10.3*	10.3*	9.8*	9.8*	9.4*	9.4*	9.1*	9.1*			7.9*	7.9*	22.9
10.5	4 pt. outriggers down									13.9*	13.9*	12.8*	12.8*	11.9*	11.9*	11.1*	11.1*	10.5*	10.5*	10.0*	10.0*	9.5*	9.5*	9.2*	9.2*			8.0*	8.0*	23.3
9.0	4 pt. outriggers down							16.1*	16.1*	14.6*	14.6*	13.3*	13.3*	12.3*	12.3*	11.5*	11.5*	10.8*	10.8*	10.2*	10.2*	9.7*	9.7*	9.2*	9.2*			8.1*	8.1*	23.5
7.5	4 pt. outriggers down			23.1*	23.1*	19.7*	19.7*	17.2*	17.2*	15.4*	15.4*	13.9*	13.9*	12.8*	12.8*	11.8*	11.8*	11.1*	11.1*	10.4*	10.4*	9.8*	9.8*	9.4*	9.4*			8.2*	8.2*	23.7
6.0	4 pt. outriggers down	32.1*	32.1*	25.6*	25.6*	21.3*	21.3*	18.4*	18.4*	16.2*	16.2*	14.6*	14.6*	13.3*	13.3*	12.2*	12.2*	11.4*	11.4*	10.6*	10.6*	10.0*	10.0*	9.5*	9.5*			8.4*	8.4*	23.8
4.5	4 pt. outriggers down	36.0*	36.0*	28.0*	28.0*	23.0*	23.0*	19.6*	19.6*	17.1*	17.1*	15.2*	15.2*	13.8*	13.8*	12.6*	12.6*	11.7*	11.7*	10.9*	10.9*	10.2*	10.2*	9.6*	9.6*			8.7*	8.7*	23.8
3.0	4 pt. outriggers down	19.0*	19.0*	30.1*	30.1*	24.5*	24.5*	20.7*	20.7*	17.9*	17.9*	15.9*	15.9*	14.3*	14.3*	13.0*	13.0*	12.0*	12.0*	11.1*	11.1*	10.3*	10.3*	9.7*	9.7*			9.0*	9.0*	23.6
1.5	4 pt. outriggers down	14.1*	14.1*	25.9*	25.9*	25.7*	25.7*	21.6*	21.6*	18.6*	18.6*	16.4*	16.4*	14.7*	14.7*	13.3*	13.3*	12.2*	12.2*	11.3*	11.3*	10.4*	10.4*	9.7*	9.7*			9.2*	9.2*	23.4
0	4 pt. outriggers down	12.9*	12.9*	20.5*	20.5*	26.6*	26.6*	22.3*	22.3*	19.2*	19.2*	16.9*	16.9*	15.1*	15.1*	13.6*	13.6*	12.4*	12.4*	11.4*	11.4*	10.5*	10.5*	9.6*	9.6*			9.2*	9.2*	23.1
-1.5	4 pt. outriggers down	12.8*	12.8*	18.6*	18.6*	27.1*	27.1*	22.8*	22.8*	19.6*	19.6*	17.2*	17.2*	15.3*	15.3*	13.8*	13.8*	12.5*	12.5*	11.4*	11.4*	10.4*	10.4*	9.4*	9.4*			9.2*	9.2*	22.7
-3.0	4 pt. outriggers down	13.2*	13.2*	18.0*	18.0*	26.7*	26.7*	22.9*	22.9*	19.8*	19.8*	17.3*	17.3*	15.4*	15.4*	13.8*	13.8*	12.5*	12.5*	11.3*	11.3*	10.2*	10.2*					9.2*	9.2*	22.2
-4.5	4 pt. outriggers down	13.8*	13.8*	18.1*	18.1*	25.6*	25.6*	22.7*	22.7*	19.6*	19.6*	17.2*	17.2*	15.3*	15.3*	13.7*	13.7*	12.3*	12.3*	11.0*	11.0*	9.7*	9.7*					9.2*	9.2*	21.5
-6.0	4 pt. outriggers down			18.5*	18.5*	25.5*	25.5*	22.0*	22.0*	19.1*	19.1*	16.8*	16.8*	14.9*	14.9*	13.2*	13.2*	11.7*	11.7*	10.3*	10.3*							9.6*	9.6*	20.2
-7.5	4 pt. outriggers down							20.8*	20.8*	18.1*	18.1*	15.9*	15.9*	14.0*	14.0*	12.4*	12.4*											11.5*	11.5*	17.3
-9.0	4 pt. outriggers down																													

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

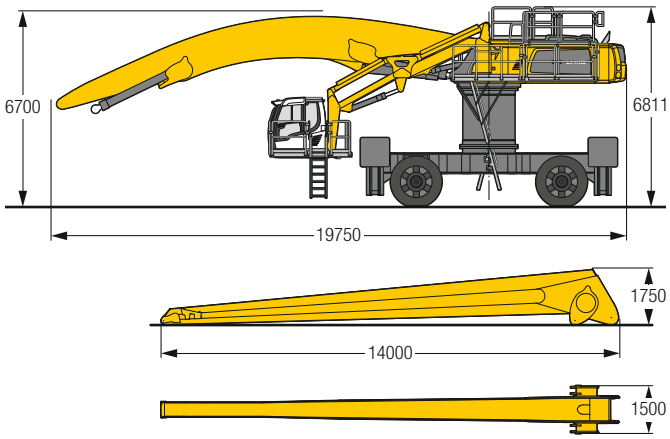
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 M HR – Equipment AG27

Port – Kinematic 2D



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, turret 2,000 mm, hydr. cab elevation, 4 solid tyres, angled boom 14.50 m, straight stick 13.50 m and clamshell grab GMZ 120 / 4.50 m³.

Weight	114,600 kg

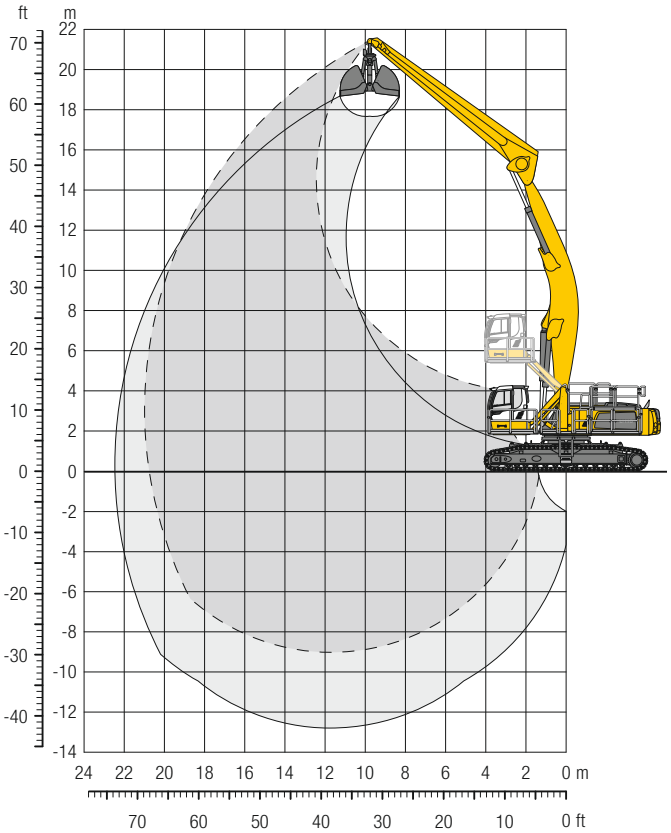
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m		m
28.5	4 pt. outriggers down																													13.2
27.0	4 pt. outriggers down													9.3*	9.3*															15.5
25.5	4 pt. outriggers down													10.3*	10.3*	9.3*	9.3*													17.4
24.0	4 pt. outriggers down															9.5*	9.5*	9.0*	9.0*											19.0
22.5	4 pt. outriggers down															9.4*	9.4*	8.9*	8.9*	8.5*	8.5*									20.4
21.0	4 pt. outriggers down															9.3*	9.3*	8.8*	8.8*	8.4*	8.4*	8.1*	8.1*							21.6
19.5	4 pt. outriggers down															9.2*	9.2*	8.8*	8.8*	8.3*	8.3*	8.0*	8.0*	7.1*	7.1*					22.6
18.0	4 pt. outriggers down															9.3*	9.3*	8.8*	8.8*	8.3*	8.3*	8.0*	8.0*	7.7*	7.7*					23.5
16.5	4 pt. outriggers down															9.3*	9.3*	8.8*	8.8*	8.4*	8.4*	8.0*	8.0*	7.6*	7.6*	7.2*	7.2*			24.2
15.0	4 pt. outriggers down													10.1*	10.1*	9.5*	9.5*	8.9*	8.9*	8.4*	8.4*	8.0*	8.0*	7.7*	7.7*	7.4*	7.4*			24.8
13.5	4 pt. outriggers down													10.3*	10.3*	9.6*	9.6*	9.0*	9.0*	8.5*	8.5*	8.1*	8.1*	7.7*	7.7*	7.4*	7.4*			25.4
12.0	4 pt. outriggers down											11.5*	11.5*	10.6*	10.6*	9.9*	9.9*	9.2*	9.2*	8.7*	8.7*	8.2*	8.2*	7.8*	7.8*	7.5*	7.5*	7.2*	7.2*	25.8
10.5	4 pt. outriggers down											11.9*	11.9*	10.9*	10.9*	10.1*	10.1*	9.4*	9.4*	8.8*	8.8*	8.3*	8.3*	7.9*	7.9*	7.5*	7.5*	7.2*	7.2*	26.1
9.0	4 pt. outriggers down							15.3*	15.3*	13.7*	13.7*	12.3*	12.3*	11.3*	11.3*	10.4*	10.4*	9.6*	9.6*	9.0*	9.0*	8.5*	8.5*	8.0*	8.0*	7.6*	7.6*	7.3*	7.3*	26.4
7.5	4 pt. outriggers down					18.7*	18.7*	16.2*	16.2*	14.3*	14.3*	12.8*	12.8*	11.7*	11.7*	10.7*	10.7*	9.9*	9.9*	9.2*	9.2*	8.6*	8.6*	8.1*	8.1*	7.7*	7.7*	7.3*	7.3*	26.5
6.0	4 pt. outriggers down	30.6*	30.6*	24.2*	24.2*	20.0*	20.0*	17.1*	17.1*	15.0*	15.0*	13.4*	13.4*	12.1*	12.1*	11.0*	11.0*	10.1*	10.1*	9.4*	9.4*	8.8*	8.8*	8.3*	8.3*	7.8*	7.8*	7.4*	7.4*	26.6
4.5	4 pt. outriggers down	32.9*	32.9*	26.1*	26.1*	21.3*	21.3*	18.1*	18.1*	15.7*	15.7*	13.9*	13.9*	12.5*	12.5*	11.3*	11.3*	10.4*	10.4*	9.6*	9.6*	9.0*	9.0*	8.4*	8.4*	7.9*	7.9*	7.4*	7.4*	26.6
3.0	4 pt. outriggers down	14.1*	14.1*	27.7*	27.7*	22.5*	22.5*	18.9*	18.9*	16.3*	16.3*	14.4*	14.4*	12.9*	12.9*	11.6*	11.6*	10.7*	10.7*	9.8*	9.8*	9.1*	9.1*	8.5*	8.5*	8.0*	8.0*	7.5*	7.5*	26.5
1.5	4 pt. outriggers down	10.6*	10.6*	18.7*	18.7*	23.5*	23.5*	19.7*	19.7*	16.9*	16.9*	14.8*	14.8*	13.2*	13.2*	11.9*	11.9*	10.9*	10.9*	10.0*	10.0*	9.3*	9.3*	8.6*	8.6*	8.0*	8.0*	7.5*	7.5*	26.3
0	4 pt. outriggers down	9.7*	9.7*	15.1*	15.1*	24.2*	24.2*	20.3*	20.3*	17.4*	17.4*	15.2*	15.2*	13.5*	13.5*	12.2*	12.2*	11.1*	11.1*	10.2*	10.2*	9.4*	9.4*	8.7*	8.7*	8.0*	8.0*	7.4*	7.4*	26.0
-1.5	4 pt. outriggers down	9.7*	9.7*	13.9*	13.9*	21.0*	21.0*	20.7*	20.7*	17.8*	17.8*	15.5*	15.5*	13.8*	13.8*	12.4*	12.4*	11.2*	11.2*	10.3*	10.3*	9.4*	9.4*	8.7*	8.7*	8.0*	8.0*	7.2*	7.2*	25.6
-3.0	4 pt. outriggers down	10.0*	10.0*	13.5*	13.5*	19.2*	19.2*	20.9*	20.9*	18.0*	18.0*	15.7*	15.7*	13.9*	13.9*	12.5*	12.5*	11.3*	11.3*	10.3*	10.3*	9.4*	9.4*	8.6*	8.6*	7.8*	7.8*			25.2
-4.5	4 pt. outriggers down	10.5*	10.5*	13.6*	13.6*	18.4*	18.4*	20.8*	20.8*	18.0*	18.0*	15.7*	15.7*	13.9*	13.9*	12.5*	12.5*	11.3*	11.3*	10.2*	10.2*	9.3*	9.3*	8.4*	8.4*	7.5*	7.5*			24.6
-6.0	4 pt. outriggers down	11.1*	11.1*	13.9*	13.9*	18.3*	18.3*	20.4*	20.4*	17.7*	17.7*	15.5*	15.5*	13.8*	13.8*	12.3*	12.3*	11.1*	11.1*	10.0*	10.0*	9.0*	9.0*	8.0*	8.0*					23.9
-7.5	4 pt. outriggers down			14.4*	14.4*	18.5*	18.5*	19.6*	19.6*	17.1*	17.1*	15.1*	15.1*	13.4*	13.4*	12.0*	12.0*	10.7*	10.7*	9.6*	9.6*	8.5*	8.5*							22.4
-9.0	4 pt. outriggers down							18.4*	18.4*	16.2*	16.2*	14.3*	14.3*	12.7*	12.7*	11.3*	11.3*	10.0*	10.0*	8.9*	8.9*									19.6

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

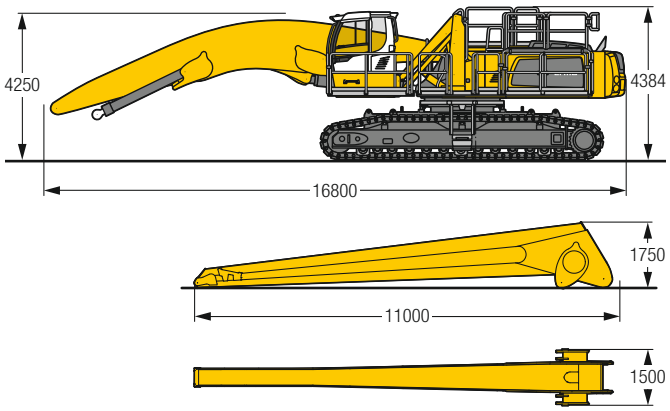
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 C – Equipment AG21

Port – Kinematic 2D



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, angled boom 11.50 m, straight stick 10.50 m and clamshell grab GMZ 120 / 6.00 m³.

Weight	109,800 kg
Pad width	750 mm
Ground pressure	on request

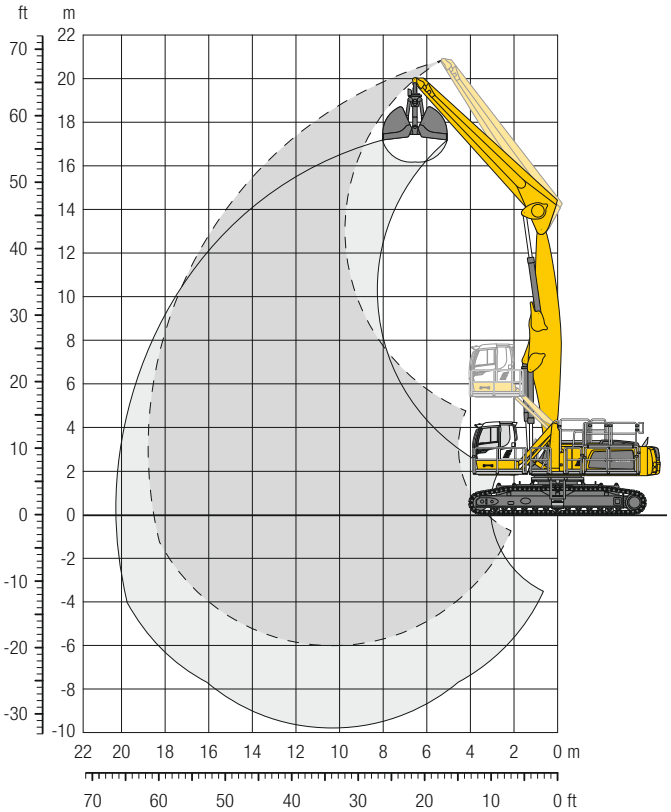
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m				m
21.0	SW							12.8*	12.8*																					12.5*	12.5*	10.6
19.5	SW									13.2*	13.2*																			11.3*	11.3*	12.9
18.0	SW									13.9*	13.9*	13.1*	13.1*																	10.5*	10.5*	14.6
16.5	SW											13.0*	13.0*	12.6*	12.6*															10.0*	10.0*	16.0
15.0	SW											12.8*	12.8*	12.4*	12.4*	11.7*	11.7*													9.7*	9.7*	17.2
13.5	SW											12.8*	12.8*	12.3*	12.3*	12.0*	12.0*	10.0*	10.0*											9.5*	9.5*	18.2
12.0	SW											13.0*	13.0*	12.4*	12.4*	12.0*	12.0*	11.7*	11.7*											9.3*	9.3*	19.0
10.5	SW									14.0*	14.0*	13.2*	13.2*	12.6*	12.6*	12.1*	12.1*	11.7*	11.7*	9.7*	9.7*									9.3*	9.3*	19.6
9.0	SW									14.5*	14.5*	13.7*	13.7*	12.9*	12.9*	12.3*	12.3*	11.8*	11.8*	11.4*	11.4*									9.3*	9.3*	20.1
7.5	SW							16.5*	16.5*	15.2*	15.2*	14.2*	14.2*	13.3*	13.3*	12.6*	12.6*	12.0*	12.0*	11.6*	11.6*									9.4*	9.4*	20.5
6.0	SW					19.7*	19.7*	17.7*	17.7*	16.1*	16.1*	14.8*	14.8*	13.8*	13.8*	13.0*	13.0*	12.3*	12.3*	11.7*	11.7*									9.5*	9.5*	20.8
4.5	SW	30.5*	30.5*	25.1*	25.1*	21.5*	21.5*	19.0*	19.0*	17.0*	17.0*	15.5*	15.5*	14.4*	14.4*	13.4*	13.4*	12.6*	12.6*	11.9*	11.9*									9.7*	9.7*	20.9
3.0	SW	35.4*	35.4*	28.1*	28.1*	23.5*	23.5*	20.3*	20.3*	18.0*	18.0*	16.3*	16.3*	14.9*	14.9*	13.8*	13.8*	12.9*	12.9*	12.1*	12.1*									10.0*	10.0*	21.0
1.5	SW	39.7*	39.7*	30.9*	30.9*	25.4*	25.4*	21.7*	21.7*	19.0*	19.0*	17.0*	17.0*	15.5*	15.5*	14.2*	14.2*	13.2*	13.2*	12.3	12.3*									10.4*	10.4*	20.9
0	SW	23.2*	23.2*	33.2*	33.2*	27.0*	27.0*	22.9*	22.9*	19.9*	19.9*	17.7*	17.7*	16.0*	16.0*	14.6*	14.6*	13.5*	13.5*	12.1	12.5*									10.8*	10.8*	20.8
-1.5	SW	18.6*	18.6*	34.3*	34.3*	28.3*	28.3*	23.9*	23.9*	20.7*	20.7*	18.3*	18.3*	16.4*	16.4*	14.9*	14.9*	13.4	13.6*	11.9	12.5*									11.1	11.4*	20.5
-3.0	SW	17.4*	17.4*	28.0*	28.0*	29.1*	29.1*	24.6*	24.6*	21.2*	21.2*	18.7*	18.7*	16.7*	16.7*	14.9	15.1*	13.2	13.7*	11.8	12.3*									11.4	11.8*	20.1
-4.5	SW	17.4*	17.4*	25.9*	25.9*	29.4*	29.4*	24.8*	24.8*	21.5*	21.5*	18.8*	18.8*	16.8*	16.8*	14.7	15.0*	13.1	13.4*	11.8	11.8*									11.7	11.8*	19.5
-6.0	SW	18.0*	18.0*	25.3*	25.3*	29.1*	29.1*	24.6*	24.6*	21.3*	21.3*	18.7*	18.7*	16.5*	16.5*	14.6*	14.6*	12.8*	12.8*											11.7*	11.7*	18.9
-7.5	SW			25.7*	25.7*	27.9*	27.9*	23.8*	23.8*	20.6*	20.6*	18.0*	18.0*	15.8*	15.8*	13.8*	13.8*													12.8*	12.8*	17.2
-9.0	SW									19.2*	19.2*																			18.4*	18.4*	12.4

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

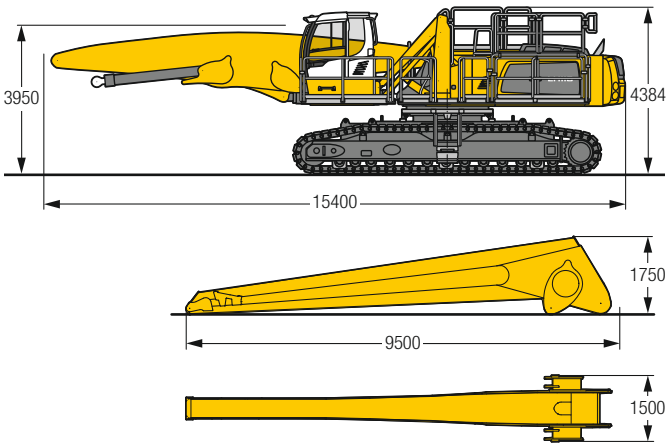
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 C – Equipment GG19

Port – Kinematic 2A



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, straight boom 10.00 m, straight stick 9.00 m and clamshell grab GMZ 120 / 8.00 m³.

Weight	108,500 kg
Pad width	750 mm
Ground pressure	on request

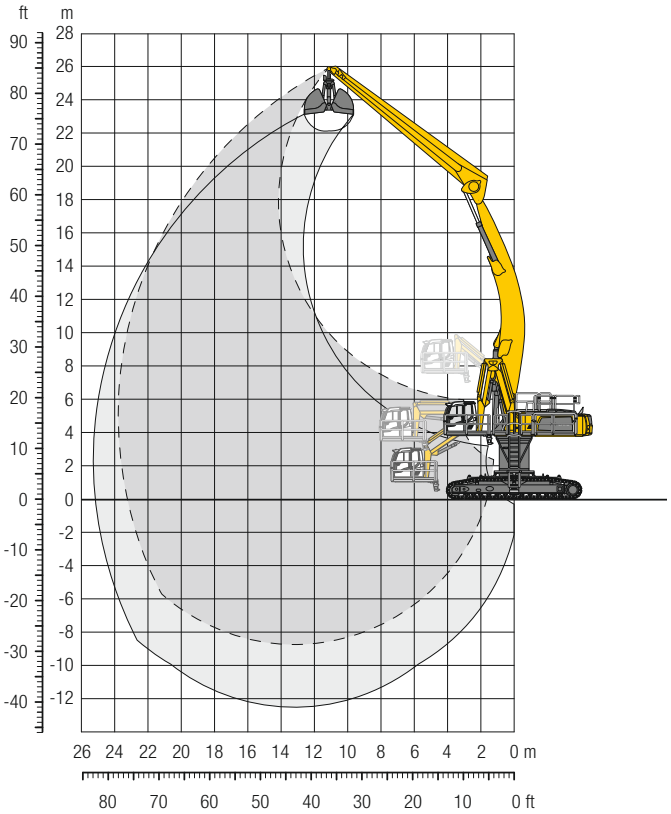
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m		m
21.0	SW																													
19.5	SW			21.8*	21.8*																								17.7*	17.7*	8.7
18.0	SW					21.5*	21.5*	17.7*	17.7*																				15.0*	15.0*	11.2
16.5	SW							20.4*	20.4*	17.4*	17.4*																		13.5*	13.5*	13.0
15.0	SW							19.7*	19.7*	18.6*	18.6*	16.5*	16.5*																12.6*	12.6*	14.4
13.5	SW							19.4*	19.4*	18.3*	18.3*	17.5*	17.5*	14.8*	14.8*														12.0*	12.0*	15.5
12.0	SW							19.5*	19.5*	18.3*	18.3*	17.4*	17.4*	16.6*	16.6*														11.6*	11.6*	16.5
10.5	SW							19.8*	19.8*	18.5*	18.5*	17.5*	17.5*	16.6*	16.6*	15.3*	15.3*												11.3*	11.3*	17.2
9.0	SW					22.2*	22.2*	20.4*	20.4*	18.9*	18.9*	17.7*	17.7*	16.7*	16.7*	15.8*	15.8*												11.2*	11.2*	17.8
7.5	SW					23.4*	23.4*	21.3*	21.3*	19.6*	19.6*	18.2*	18.2*	17.0*	17.0*	16.0*	16.0*	12.8*	12.8*										11.1*	11.1*	18.2
6.0	SW			28.5*	28.5*	25.0*	25.0*	22.4*	22.4*	20.3*	20.3*	18.7*	18.7*	17.3*	17.3*	16.1*	16.1*	14.5	14.9*										11.2*	11.2*	18.5
4.5	SW	38.0*	38.0*	31.3*	31.3*	26.8*	26.8*	23.6*	23.6*	21.2*	21.2*	19.2*	19.2*	17.7*	17.7*	16.3*	16.3*	14.4	15.0*										11.3*	11.3*	18.7
3.0	SW	42.9*	42.9*	34.2*	34.2*	28.7*	28.7*	24.8*	24.8*	22.0*	22.0*	19.8*	19.8*	18.0*	18.0*	16.3	16.4*	14.3	14.9*										11.5*	11.5*	18.8
1.5	SW	46.9*	46.9*	36.7*	36.7*	30.3*	30.3*	25.9*	25.9*	22.7*	22.7*	20.3*	20.3*	18.2*	18.2*	16.1	16.5*	14.2	14.6*										11.9*	11.9*	18.7
0	SW	27.4*	27.4*	38.4*	38.4*	31.5*	31.5*	26.7*	26.7*	23.2*	23.2*	20.5*	20.5*	18.2	18.3*	15.9	16.3*	14.0*	14.0*										12.3*	12.3*	18.5
-1.5	SW	22.4*	22.4*	38.9*	38.9*	31.9*	31.9*	27.0*	27.0*	23.3*	23.3*	20.4*	20.4*	18.0*	18.0*	15.7*	15.7*	12.7*	12.7*										12.4*	12.4*	18.1
-3.0	SW	21.9*	21.9*	38.1*	38.1*	31.5*	31.5*	26.6*	26.6*	22.9*	22.9*	19.9*	19.9*	17.2*	17.2*	14.4*	14.4*												13.2*	13.2*	17.0
-4.5	SW	23.1*	23.1*	35.6*	35.6*	29.8*	29.8*	25.3*	25.3*	21.7*	21.7*	18.5*	18.5*	15.6*	15.6*														14.9*	14.9*	15.3
-6.0	SW							22.7*	22.7*																				21.8*	21.8*	10.9
-7.5	SW																														
-9.0	SW																														

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

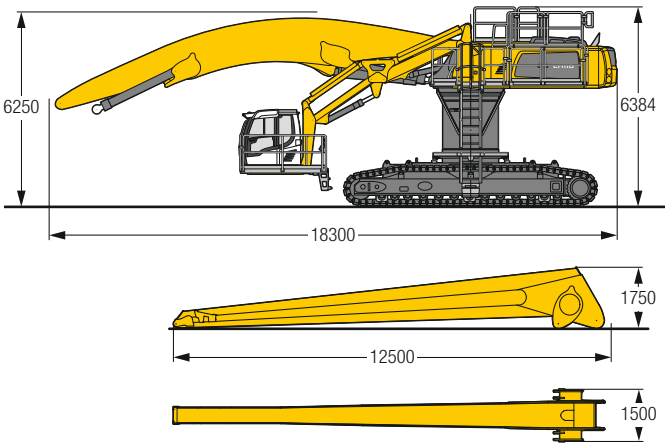
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 C HR – Equipment AG24

Port – Kinematic 2D



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with turret 2,000 mm, hydr. cab elevation, angled boom 13.00 m, straight stick 12.00 m and clamshell grab GMZ 120 / 5.00 m³.

Weight	117,500 kg
Pad width	750 mm
Ground pressure	on request

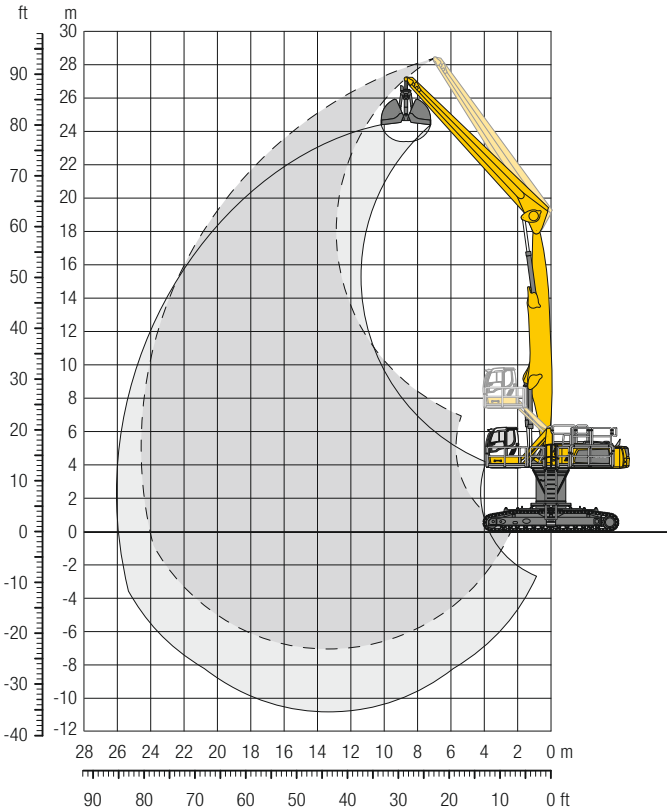
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m		m
25.5	SW																													10.8*	10.8*	**11.9**
24.0	SW											11.0*	11.0*																	9.7*	9.7*	**14.2**
22.5	SW											12.0*	12.0*	11.0*	11.0*															9.1*	9.1*	**16.0**
21.0	SW													11.1*	11.1*	10.7*	10.7*													8.6*	8.6*	**17.6**
19.5	SW													10.9*	10.9*	10.4*	10.4*	10.1*	10.1*											8.3*	8.3*	**18.8**
18.0	SW													10.8*	10.8*	10.3*	10.3*	10.0*	10.0*	9.1*	9.1*									8.1*	8.1*	**19.9**
16.5	SW													10.8*	10.8*	10.3*	10.3*	9.9*	9.9*	9.6*	9.6*									8.0*	8.0*	**20.8**
15.0	SW													10.9*	10.9*	10.4*	10.4*	10.0*	10.0*	9.6*	9.6*	9.3*	9.3*							7.9*	7.9*	**21.6**
13.5	SW											11.8*	11.8*	11.1*	11.1*	10.6*	10.6*	10.1*	10.1*	9.7*	9.7*	9.3*	9.3*							7.9*	7.9*	**22.2**
12.0	SW											12.2*	12.2*	11.4*	11.4*	10.8*	10.8*	10.2*	10.2*	9.8*	9.8*	9.4*	9.4*	8.6*	8.6*					7.9*	7.9*	**22.7**
10.5	SW									13.6*	13.6*	12.6*	12.6*	11.8*	11.8*	11.0*	11.0*	10.4*	10.4*	9.9*	9.9*	9.5*	9.5*	9.1*	9.1*					7.9*	7.9*	**23.2**
9.0	SW							15.8*	15.8*	14.3*	14.3*	13.1*	13.1*	12.2*	12.2*	11.4*	11.4*	10.7*	10.7*	10.1*	10.1*	9.6*	9.6*	9.2*	9.2*					8.0*	8.0*	**23.5**
7.5	SW					19.1*	19.1*	16.9*	16.9*	15.1*	15.1*	13.7*	13.7*	12.6*	12.6*	11.7*	11.7*	11.0*	11.0*	10.3*	10.3*	9.8*	9.8*	9.3*	9.3*					8.2*	8.2*	**23.7**
6.0	SW	30.7*	30.7*	24.7*	24.7*	20.8*	20.8*	18.0*	18.0*	16.0*	16.0*	14.4*	14.4*	13.1*	13.1*	12.1*	12.1*	11.3*	11.3*	10.6*	10.6*	10.0*	10.0*	9.4*	9.4*					8.3*	8.3*	**23.8**
4.5	SW	34.7*	34.7*	27.2*	27.2*	22.4*	22.4*	19.2*	19.2*	16.8*	16.8*	15.0*	15.0*	13.6*	13.6*	12.5*	12.5*	11.6*	11.6*	10.8*	10.8*	10.1*	10.1*	9.5*	9.5*					8.6*	8.6*	**23.8**
3.0	SW	23.1*	23.1*	29.4*	29.4*	24.0*	24.0*	20.3*	20.3*	17.7*	17.7*	15.7*	15.7*	14.1*	14.1*	12.9*	12.9*	11.9*	11.9*	11.0*	11.0*	10.3*	10.3*	9.6*	9.6*					8.9*	8.9*	**23.7**
1.5	SW	15.1*	15.1*	29.6*	29.6*	25.3*	25.3*	21.3*	21.3*	18.4*	18.4*	16.3*	16.3*	14.6*	14.6*	13.2*	13.2*	12.1*	12.1*	11.2*	11.2*	10.4*	10.4*	9.7*	9.7*					9.2*	9.2*	**23.5**
0	SW	13.1*	13.1*	21.7*	21.7*	26.3*	26.3*	22.1*	22.1*	19.0*	19.0*	16.8*	16.8*	15.0*	15.0*	13.5*	13.5*	12.4*	12.4*	11.4*	11.4*	10.5*	10.5*	9.6*	9.6*					9.2*	9.2*	**23.2**
-1.5	SW	12.7*	12.7*	19.0*	19.0*	27.0*	27.0*	22.7*	22.7*	19.5*	19.5*	17.1*	17.1*	15.3*	15.3*	13.7*	13.7*	12.5*	12.5*	11.4*	11.4*	10.5*	10.5*	9.5*	9.5*					9.2*	9.2*	**22.8**
-3.0	SW	13.0*	13.0*	18.1*	18.1*	27.2*	27.2*	22.9*	22.9*	19.8*	19.8*	17.3*	17.3*	15.4*	15.4*	13.8*	13.8*	12.5*	12.5*	11.4*	11.4*	10.3*	10.3*							9.2*	9.2*	**22.4**
-4.5	SW	13.5*	13.5*	18.0*	18.0*	25.8*	25.8*	22.8*	22.8*	19.7*	19.7*	17.3*	17.3*	15.4*	15.4*	13.7*	13.7*	12.4*	12.4*	11.1*	11.1*	9.9*	9.9*							9.2*	9.2*	**21.7**
-6.0	SW	14.2*	14.2*	18.4*	18.4*	25.4*	25.4*	22.3*	22.3*	19.3*	19.3*	17.0*	17.0*	15.0*	15.0*	13.4*	13.4*	12.0*	12.0*	10.6*	10.6*									9.3*	9.3*	**20.8**
-7.5	SW					24.7*	24.7*	21.3*	21.3*	18.5*	18.5*	16.3*	16.3*	14.4*	14.4*	12.7*	12.7*	11.2*	11.2*											10.6*	10.6*	**18.5**

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

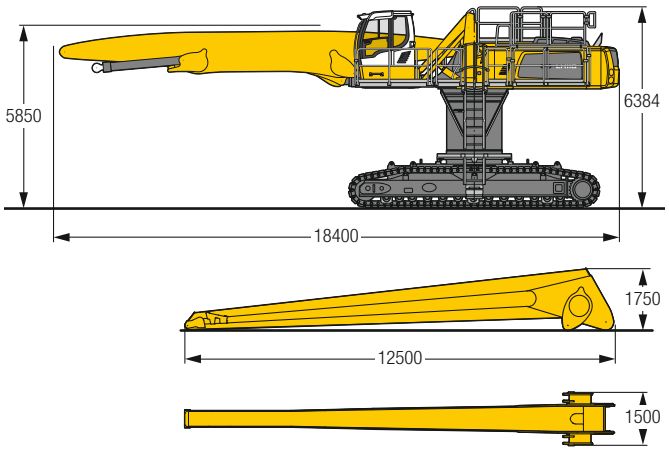
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 C HR – Equipment GG25

Port – Kinematic 2A



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with turret 2,000 mm, hydr. cab elevation, straight boom 13.00 m, straight stick 12.00 m and clamshell grab GMZ 120 / 5.00 m³.

Weight	117,200 kg
Pad width	1,000 mm
Ground pressure	on request

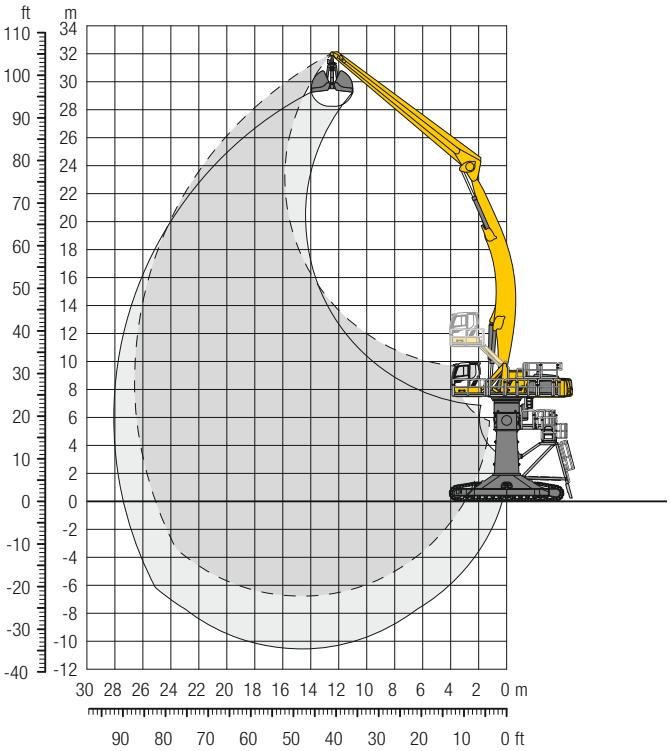
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m		m
27.0	SW					16.5*	16.5*	13.8*	13.8*																					13.3*	13.3*	10.7
25.5	SW							16.3*	16.3*	14.2*	14.2*																			11.4*	11.4*	13.4
24.0	SW									15.9*	15.9*	14.2*	14.2*	11.6*	11.6*															10.3*	10.3*	15.5
22.5	SW											14.5*	14.5*	13.6*	13.6*	11.3*	11.3*													9.6*	9.6*	17.2
21.0	SW											14.2*	14.2*	13.3*	13.3*	12.6*	12.6*	10.7*	10.7*											9.0*	9.0*	18.6
19.5	SW											14.0*	14.0*	13.1*	13.1*	12.4*	12.4*	11.7*	11.7*	9.7*	9.7*									8.7*	8.7*	19.8
18.0	SW											14.0*	14.0*	13.1*	13.1*	12.3*	12.3*	11.6*	11.6*	11.1*	11.1*									8.4*	8.4*	20.8
16.5	SW											14.0*	14.0*	13.1*	13.1*	12.3*	12.3*	11.6*	11.6*	11.0*	11.0*	10.4*	10.4*							8.2*	8.2*	21.7
15.0	SW											14.1*	14.1*	13.2*	13.2*	12.3*	12.3*	11.6*	11.6*	11.0*	11.0*	10.5*	10.5*							8.0*	8.0*	22.5
13.5	SW									15.6*	15.6*	14.4*	14.4*	13.3*	13.3*	12.5*	12.5*	11.7*	11.7*	11.0*	11.0*	10.5*	10.5*	9.9*	9.9*					7.9*	7.9*	23.1
12.0	SW									16.0*	16.0*	14.7*	14.7*	13.6*	13.6*	12.6*	12.6*	11.8*	11.8*	11.1*	11.1*	10.5*	10.5*	9.9*	9.9*					7.9*	7.9*	23.6
10.5	SW							18.3*	18.3*	16.5*	16.5*	15.1*	15.1*	13.9*	13.9*	12.8*	12.8*	12.0*	12.0*	11.2*	11.2*	10.6*	10.6*	9.9*	9.9*					7.9*	7.9*	24.0
9.0	SW					20.4*	20.4*	19.1*	19.1*	17.1*	17.1*	15.5*	15.5*	14.2*	14.2*	13.1*	13.1*	12.2*	12.2*	11.4*	11.4*	10.6*	10.6*	10.0*	10.0*	9.0*	9.0*			7.9*	7.9*	24.3
7.5	SW			21.8*	21.8*	23.0*	23.0*	20.0*	20.0*	17.8*	17.8*	16.0*	16.0*	14.6*	14.6*	13.4*	13.4*	12.4*	12.4*	11.5*	11.5*	10.7*	10.7*	10.0*	10.0*	9.2*	9.2*			8.0*	8.0*	24.5
6.0	SW	34.5*	34.5*	29.2*	29.2*	24.4*	24.4*	21.0*	21.0*	18.4*	18.4*	16.5*	16.5*	14.9*	14.9*	13.6*	13.6*	12.5*	12.5*	11.6*	11.6*	10.8*	10.8*	10.0*	10.0*	9.1*	9.1*			8.1*	8.1*	24.6
4.5	SW	39.8*	39.8*	31.2*	31.2*	25.7*	25.7*	21.9*	21.9*	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*	9.9*	9.9*	8.9*	8.9*			8.2*	8.2*	24.6
3.0	SW	14.7*	14.7*	32.8*	32.8*	26.8*	26.8*	22.7*	22.7*	19.7*	19.7*	17.4*	17.4*	15.6*	15.6*	14.1*	14.1*	12.8*	12.8*	11.8*	11.8*	10.8*	10.8*	9.8*	9.8*	8.7*	8.7*			8.2*	8.2*	24.5
1.5	SW	10.1*	10.1*	22.6*	22.6*	27.6*	27.6*	23.3*	23.3*	20.1*	20.1*	17.7*	17.7*	15.8*	15.8*	14.2*	14.2*	12.9*	12.9*	11.7*	11.7*	10.7*	10.7*	9.6*	9.6*	8.3*	8.3*			7.9*	7.9*	24.3
0	SW	9.5*	9.5*	17.3*	17.3*	27.9*	27.9*	23.5*	23.5*	20.3*	20.3*	17.8*	17.8*	15.8*	15.8*	14.2*	14.2*	12.8*	12.8*	11.6*	11.6*	10.4*	10.4*	9.2*	9.2*	7.6*	7.6*			7.5*	7.5*	24.0
-1.5	SW	9.9*	9.9*	15.8*	15.8*	27.6*	27.6*	23.4*	23.4*	20.2*	20.2*	17.7*	17.7*	15.7*	15.7*	14.1*	14.1*	12.6*	12.6*	11.3*	11.3*	10.0*	10.0*	8.6*	8.6*					7.4*	7.4*	23.4
-3.0	SW	10.8*	10.8*	15.8*	15.8*	24.9*	24.9*	22.9*	22.9*	19.8*	19.8*	17.4*	17.4*	15.4*	15.4*	13.7*	13.7*	12.2*	12.2*	10.8*	10.8*	9.3*	9.3*							7.9*	7.9*	22.3
-4.5	SW	11.9*	11.9*	16.4*	16.4*	24.2*	24.2*	21.7*	21.7*	18.9*	18.9*	16.6*	16.6*	14.7*	14.7*	13.0*	13.0*	11.4*	11.4*	9.9*	9.9*									8.6*	8.6*	20.7
-6.0	SW					22.8*	22.8*	19.9*	19.9*	17.5*	17.5*	15.4*	15.4*	13.5*	13.5*	11.8*	11.8*	10.2*	10.2*											10.0*	10.0*	18.2

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

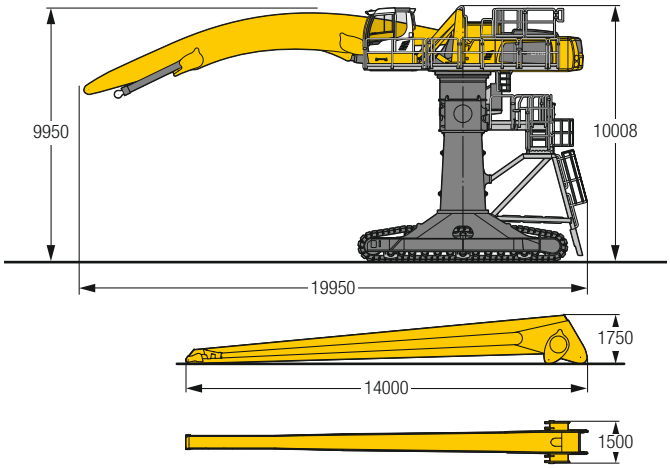
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 1,000 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 C Gantry – Equipment AG27

Port – Kinematic 2D



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, angled boom 14.50 m, straight stick 13.50 m and clamshell grab GMZ 120 / 4.50 m³.

Weight	143,600 kg
Pad width	750 mm
Ground pressure	on request

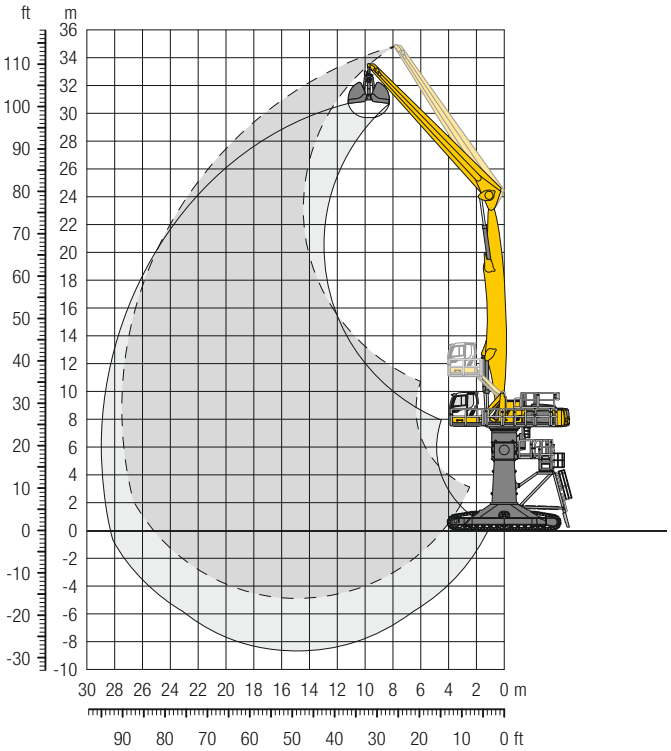
m	Undercarriage	6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m		19.5 m		21.0 m		22.5 m		24.0 m		25.5 m		27.0 m			m
31.5	Gantry																													9.5*	9.5*	12.8
30.0	Gantry													9.0*	9.0*															8.6*	8.6*	15.3
28.5	Gantry													10.4*	10.4*	9.1*	9.1*													8.0*	8.0*	17.2
27.0	Gantry															9.5*	9.5*	8.9*	8.9*											7.6*	7.6*	18.9
25.5	Gantry															9.4*	9.4*	8.9*	8.9*	8.5*	8.5*									7.3*	7.3*	20.3
24.0	Gantry															9.3*	9.3*	8.8*	8.8*	8.4*	8.4*	7.9*	7.9*							7.1*	7.1*	21.5
22.5	Gantry															9.2*	9.2*	8.8*	8.8*	8.3*	8.3*	8.0*	8.0*							6.9*	6.9*	22.5
21.0	Gantry															9.3*	9.3*	8.8*	8.8*	8.3*	8.3*	8.0*	8.0*	7.7*	7.7*					6.8*	6.8*	23.4
19.5	Gantry															9.3*	9.3*	8.8*	8.8*	8.4*	8.4*	8.0*	8.0*	7.6*	7.6*	7.0*	7.0*			6.8*	6.8*	24.1
18.0	Gantry													10.1*	10.1*	9.5*	9.5*	8.9*	8.9*	8.4*	8.4*	8.0*	8.0*	7.7*	7.7*	7.4*	7.4*			6.7*	6.7*	24.8
16.5	Gantry													10.3*	10.3*	9.6*	9.6*	9.0*	9.0*	8.5*	8.5*	8.1*	8.1*	7.7*	7.7*	7.4*	7.4*			6.7*	6.7*	25.3
15.0	Gantry											11.4*	11.4*	10.6*	10.6*	9.8*	9.8*	9.2*	9.2*	8.7*	8.7*	8.2*	8.2*	7.8*	7.8*	7.4*	7.4*	7.2*	7.2*	6.8*	6.8*	25.7
13.5	Gantry											11.8*	11.8*	10.9*	10.9*	10.1*	10.1*	9.4*	9.4*	8.8*	8.8*	8.3*	8.3*	7.9*	7.9*	7.5*	7.5*	7.2*	7.2*	6.8*	6.8*	26.1
12.0	Gantry									13.6*	13.6*	12.3*	12.3*	11.2*	11.2*	10.3*	10.3*	9.6*	9.6*	9.0*	9.0*	8.4*	8.4*	8.0*	8.0*	7.6*	7.6*	7.2*	7.2*	6.9*	6.9*	26.3
10.5	Gantry					18.6*	18.6*	16.1*	16.1*	14.2*	14.2*	12.8*	12.8*	11.6*	11.6*	10.6*	10.6*	9.9*	9.9*	9.2*	9.2*	8.6*	8.6*	8.1*	8.1*	7.7*	7.7*	7.3*	7.3*	7.0*	7.0*	26.5
9.0	Gantry	30.2*	30.2*	23.9*	23.9*	19.9*	19.9*	17.0*	17.0*	14.9*	14.9*	13.3*	13.3*	12.0*	12.0*	11.0*	11.0*	10.1*	10.1*	9.4*	9.4*	8.8*	8.8*	8.2*	8.2*	7.8*	7.8*	7.4*	7.4*	7.1*	7.1*	26.6
7.5	Gantry	33.3*	33.3*	25.9*	25.9*	21.2*	21.2*	17.9*	17.9*	15.6*	15.6*	13.8*	13.8*	12.4*	12.4*	11.3*	11.3*	10.4*	10.4*	9.6*	9.6*	8.9*	8.9*	8.4*	8.4*	7.9*	7.9*	7.4*	7.4*	7.1*	7.1*	26.6
6.0	Gantry	14.9*	14.9*	27.5*	27.5*	22.4*	22.4*	18.8*	18.8*	16.3*	16.3*	14.3*	14.3*	12.8*	12.8*	11.6*	11.6*	10.6*	10.6*	9.8*	9.8*	9.1*	9.1*	8.5*	8.5*	8.0*	8.0*	7.5*	7.5*	7.1*	7.1*	26.5
4.5	Gantry	10.8*	10.8*	19.5*	19.5*	23.4*	23.4*	19.6*	19.6*	16.9*	16.9*	14.8*	14.8*	13.2*	13.2*	11.9*	11.9*	10.9*	10.9*	10.0*	10.0*	9.2*	9.2*	8.6*	8.6*	8.0*	8.0*	7.5*	7.5*	7.1*	7.1*	26.3
3.0	Gantry	9.8*	9.8*	15.4*	15.4*	24.1*	24.1*	20.2*	20.2*	17.4*	17.4*	15.2*	15.2*	13.5*	13.5*	12.2*	12.2*	11.1*	11.1*	10.1*	10.1*	9.4*	9.4*	8.7*	8.7*	8.0*	8.0*	7.4*	7.4*	7.2*	7.2*	26.0
1.5	Gantry	9.7*	9.7*	14.0*	14.0*	21.4*	21.4*	20.7*	20.7*	17.7*	17.7*	15.5*	15.5*	13.8*	13.8*	12.4*	12.4*	11.2*	11.2*	10.3*	10.3*	9.4*	9.4*	8.7*	8.7*	8.0*	8.0*	7.3*	7.3*	7.2*	7.2*	25.7
0	Gantry	10.0*	10.0*	13.5*	13.5*	19.3*	19.3*	20.9*	20.9*	17.9*	17.9*	15.7*	15.7*	13.9*	13.9*	12.5*	12.5*	11.3*	11.3*	10.3*	10.3*	9.4*	9.4*	8.6*	8.6*	7.9*	7.9*			7.2*	7.2*	25.2
-1.5	Gantry	10.5*	10.5*	13.6*	13.6*	18.5*	18.5*	20.8*	20.8*	18.0*	18.0*	15.7*	15.7*	14.0*	14.0*	12.5*	12.5*	11.3*	11.3*	10.2*	10.2*	9.3*	9.3*	8.5*	8.5*	7.6*	7.6*			7.1*	7.1*	24.7
-3.0	Gantry	11.1*	11.1*	13.9*	13.9*	18.3*	18.3*	20.5*	20.5*	17.7*	17.7*	15.6*	15.6*	13.8*	13.8*	12.4*	12.4*	11.1*	11.1*	10.0*	10.0*	9.1*	9.1*	8.1*	8.1*					7.1*	7.1*	24.0
-4.5	Gantry			14.3*	14.3*	18.4*	18.4*	19.8*	19.8*	17.2*	17.2*	15.1*	15.1*	13.4*	13.4*	12.0*	12.0*	10.8*	10.8*	9.7*	9.7*	8.6*	8.6*	7.5*	7.5*					7.3*	7.3*	22.7
-6.0	Gantry							18.6*	18.6*	16.3*	16.3*	14.4*	14.4*	12.8*	12.8*	11.4*	11.4*	10.1*	10.1*	9.0*	9.0*									8.5*	8.5*	20.1

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

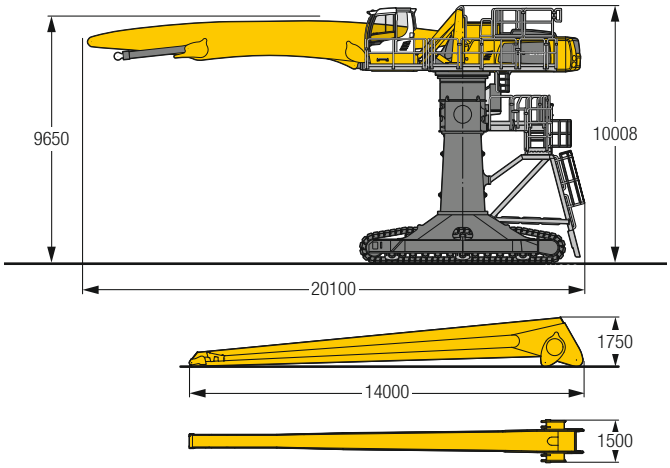
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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 110 C Gantry – Equipment GG28

Port – Kinematic 2A



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, straight boom 14.50 m, straight stick 13.50 m and clamshell grab GMZ 120 / 4.50 m³.

Weight	143,300 kg
Pad width	750 mm
Ground pressure	on request

m	Undercarriage	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		m
33.0	Gantry							13.7*	13.7*																					11.7*	11.7*	11.8
31.5	Gantry									13.7*	13.7*	11.9*	11.9*																	10.1*	10.1*	14.6
30.0	Gantry											13.5*	13.5*	12.0*	12.0*	9.7*	9.7*													9.1*	9.1*	16.8
28.5	Gantry											13.7*	13.7*	12.6*	12.6*	11.7*	11.7*	9.7*	9.7*											8.5*	8.5*	18.6
27.0	Gantry													12.4*	12.4*	11.5*	11.5*	10.8*	10.8*	9.3*	9.3*									8.0*	8.0*	20.1
25.5	Gantry													12.2*	12.2*	11.4*	11.4*	10.6*	10.6*	10.0*	10.0*	8.6*	8.6*							7.6*	7.6*	21.4
24.0	Gantry													12.2*	12.2*	11.3*	11.3*	10.6*	10.6*	9.9*	9.9*	9.4*	9.4*	7.5*	7.5*					7.4*	7.4*	22.5
22.5	Gantry													12.1*	12.1*	11.3*	11.3*	10.5*	10.5*	9.9*	9.9*	9.3*	9.3*	8.8*	8.8*					7.1*	7.1*	23.5
21.0	Gantry													12.2*	12.2*	11.3*	11.3*	10.5*	10.5*	9.9*	9.9*	9.3*	9.3*	8.8*	8.8*	8.0*	8.0*			7.0*	7.0*	24.4
19.5	Gantry													12.2*	12.2*	11.3*	11.3*	10.6*	10.6*	9.9*	9.9*	9.3*	9.3*	8.8*	8.8*	8.3*	8.3*			6.9*	6.9*	25.1
18.0	Gantry													12.4*	12.4*	11.4*	11.4*	10.6*	10.6*	9.9*	9.9*	9.3*	9.3*	8.8*	8.8*	8.3*	8.3*	7.5*	7.5*	6.8*	6.8*	25.7
16.5	Gantry											13.7*	13.7*	12.5*	12.5*	11.6*	11.6*	10.7*	10.7*	10.0*	10.0*	9.4*	9.4*	8.8*	8.8*	8.3*	8.3*	7.8*	7.8*	6.7*	6.7*	26.2
15.0	Gantry									15.4*	15.4*	13.9*	13.9*	12.7*	12.7*	11.7*	11.7*	10.9*	10.9*	10.1*	10.1*	9.4*	9.4*	8.9*	8.9*	8.3*	8.3*	7.8*	7.8*	6.7*	6.7*	26.7
13.5	Gantry									15.8*	15.8*	14.3*	14.3*	13.0*	13.0*	11.9*	11.9*	11.0*	11.0*	10.2*	10.2*	9.5*	9.5*	8.9*	8.9*	8.3*	8.3*	7.8*	7.8*	6.7*	6.7*	27.0
12.0	Gantry					17.5*	17.5*	18.5*	18.5*	16.3*	16.3*	14.6*	14.6*	13.3*	13.3*	12.1*	12.1*	11.1*	11.1*	10.3*	10.3*	9.6*	9.6*	9.0*	9.0*	8.4*	8.4*	7.8*	7.8*	7.1*	7.1*	6.8*	6.8*	27.2
10.5	Gantry			19.4*	19.4*	22.3*	22.3*	19.2*	19.2*	16.9*	16.9*	15.0*	15.0*	13.5*	13.5*	12.3*	12.3*	11.3*	11.3*	10.4*	10.4*	9.7*	9.7*	9.0*	9.0*	8.4*	8.4*	7.8*	7.8*	7.1*	7.1*	6.8*	6.8*	27.4
9.0	Gantry			28.3*	28.3*	23.4*	23.4*	19.9*	19.9*	17.4*	17.4*	15.4*	15.4*	13.8*	13.8*	12.5*	12.5*	11.5*	11.5*	10.5*	10.5*	9.7*	9.7*	9.0*	9.0*	8.4*	8.4*	7.7*	7.7*	7.0*	7.0*	6.7*	6.7*	27.5
7.5	Gantry			29.7*	29.7*	24.3*	24.3*	20.6*	20.6*	17.9*	17.9*	15.8*	15.8*	14.1*	14.1*	12.7*	12.7*	11.6*	11.6*	10.6*	10.6*	9.8*	9.8*	9.0*	9.0*	8.3*	8.3*	7.6*	7.6*	6.8*	6.8*	6.5*	6.5*	27.5
6.0	Gantry	8.7*	8.7*	23.8*	23.8*	25.1*	25.1*	21.2*	21.2*	18.3*	18.3*	16.1*	16.1*	14.3*	14.3*	12.9*	12.9*	11.7*	11.7*	10.7*	10.7*	9.8*	9.8*	9.0*	9.0*	8.3*	8.3*	7.5*	7.5*	6.6*	6.6*	6.3*	6.3*	27.4
4.5	Gantry	6.7*	6.7*	14.0*	14.0*	25.6*	25.6*	21.5*	21.5*	18.5*	18.5*	16.3*	16.3*	14.4*	14.4*	13.0*	13.0*	11.8*	11.8*	10.7*	10.7*	9.8*	9.8*	8.9*	8.9*	8.1*	8.1*	7.3*	7.3*	6.2*	6.2*	6.0*	6.0*	27.2
3.0	Gantry	6.6*	6.6*	11.6*	11.6*	21.3*	21.3*	21.7*	21.7*	18.7*	18.7*	16.3*	16.3*	14.5*	14.5*	13.0*	13.0*	11.7*	11.7*	10.6*	10.6*	9.7*	9.7*	8.8*	8.8*	7.9*	7.9*	7.0*	7.0*			5.7*	5.7*	26.9
1.5	Gantry	7.1*	7.1*	11.0*	11.0*	18.0*	18.0*	21.5*	21.5*	18.6*	18.6*	16.3*	16.3*	14.4*	14.4*	12.9*	12.9*	11.6*	11.6*	10.5*	10.5*	9.5*	9.5*	8.5*	8.5*	7.6*	7.6*	6.5*	6.5*			5.4*	5.4*	26.5
0	Gantry	7.9*	7.9*	11.3*	11.3*	16.8*	16.8*	21.0*	21.0*	18.2*	18.2*	16.0*	16.0*	14.1*	14.1*	12.6*	12.6*	11.3*	11.3*	10.2*	10.2*	9.1*	9.1*	8.1*	8.1*	7.1*	7.1*	5.7*	5.7*			5.7*	5.7*	25.5
-1.5	Gantry	8.8*	8.8*	11.8*	11.8*	16.7*	16.7*	20.0*	20.0*	17.5*	17.5*	15.4*	15.4*	13.6*	13.6*	12.2*	12.2*	10.9*	10.9*	9.7*	9.7*	8.6*	8.6*	7.5*	7.5*	6.3*	6.3*					6.1*	6.1*	24.2
-3.0	Gantry			12.6*	12.6*	17.0*	17.0*	18.6*	18.6*	16.4*	16.4*	14.5*	14.5*	12.9*	12.9*	11.4*	11.4*	10.2*	10.2*	9.0*	9.0*	7.8*	7.8*									6.8*	6.8*	22.3
-4.5	Gantry							16.7*	16.7*	14.8*	14.8*	13.2*	13.2*	11.7*	11.7*	10.4*	10.4*	9.1*	9.1*											8.2*	8.2*	19.2

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

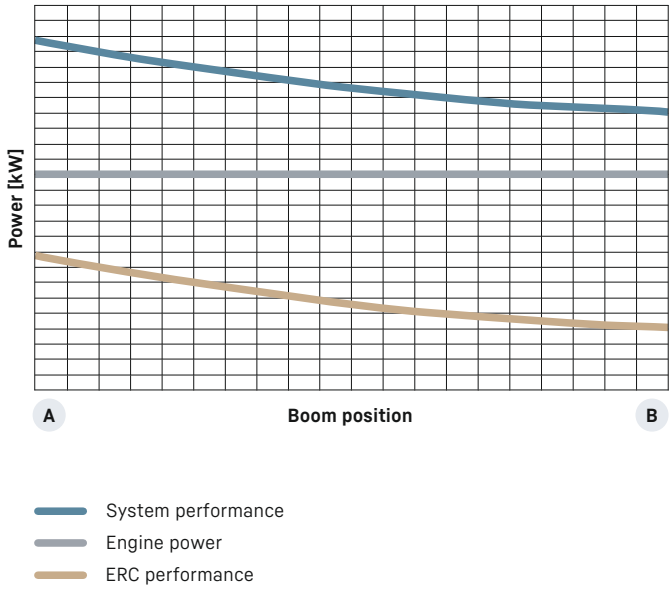
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic 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 attachments (grabs, load hooks, etc.) and load accommodation attachment 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.

Liebherr 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 energy saving – and, at the same time, even greater performance.

System performance
The energy recovery cylinder is a storage system which is independent of the electric motor or 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 engine.

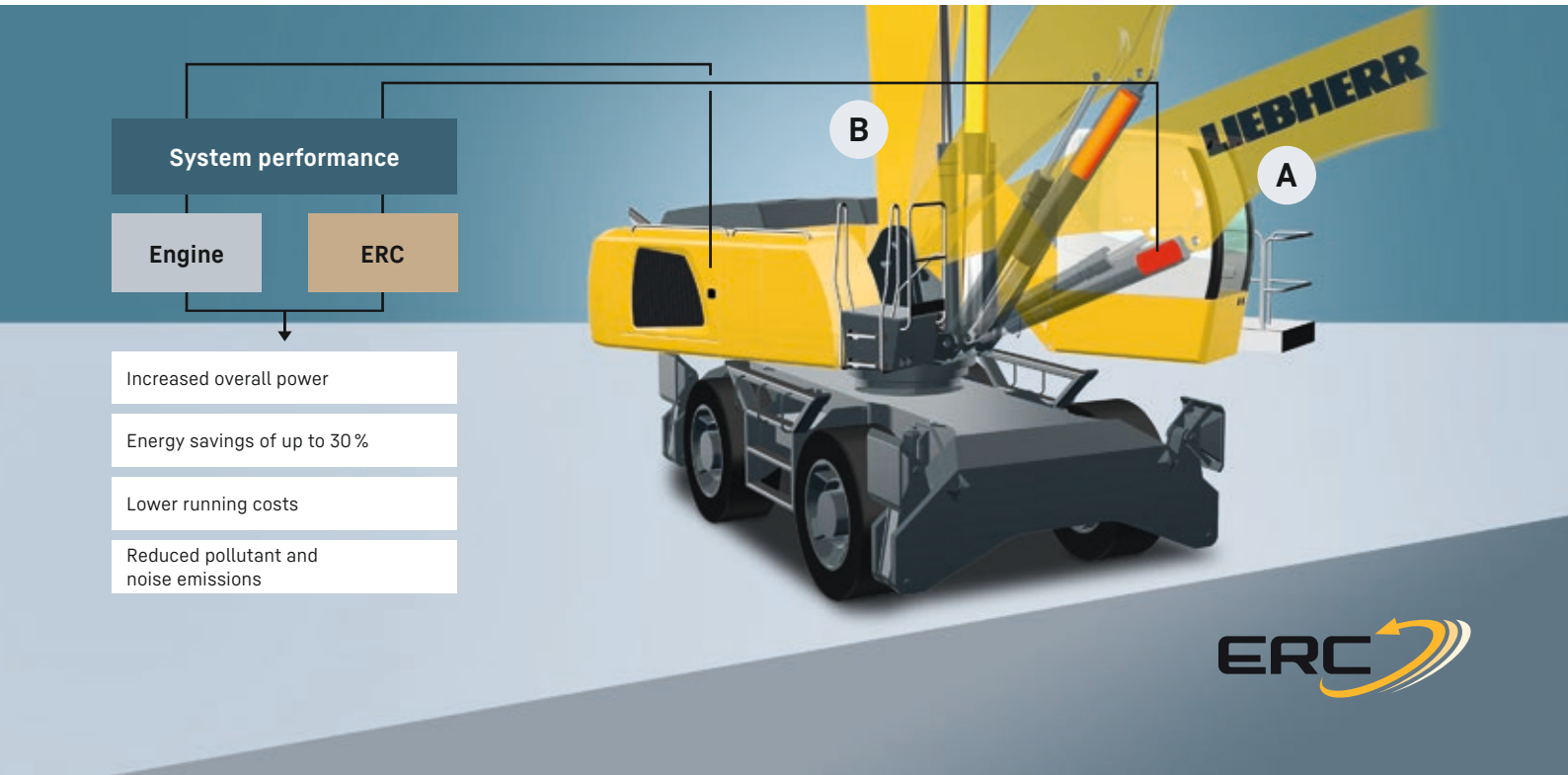
ERC-System



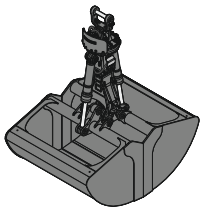
B 1. Equipment fitting raised / energy released

2. Lower equipment fitting / store energy
4. Raise equipment fitting / release energy

A 3. Equipment fitting lowered / energy stored



Attachments



Clamshell grab

Grab model GMZ 50 (Shells for loose material)													
Shell width	mm	1,400	1,600	1,800									
Capacity[1]	m³	3.50	4.00	4.50									
Weight[2]	kg	2,615	2,750	2,825									
Grab model GMZ 80 (Clamshell buckets)													
Shell width	mm	1,200	1,400	1,650	2,000								
Capacity[1]	m³	1.40	1.70	2.00	2.50								
Weight[2] [3]	kg	2,170	2,275	2,415	2,595								
Grab model GMZ 80 (Shells for loose material)													
Shell specification		Standard							Wide				
Shell width	mm	1,300	1,500	1,750	2,000	2,200	2,600	3,000	1,300	1,500	1,750	2,000	2,200
Capacity[1]	m³	3.00	3.50	4.00	4.50	5.00	6.00	7.00	2.00	2.30	2.70	3.00	3.40
Weight[2]	kg	2,510	2,625	2,775	2,920	3,255	3,490	3,720	2,310	2,400	2,535	2,670	2,895
Grab model GMZ 120 (Clamshell buckets)													
Shell width	mm	2,000											
Capacity[1]	m³	3.20											
Weight[2] [3]	kg	3,210											
Grab model GMZ 120 (Shells for loose material)													
Shell width	mm	1,600	1,800	2,000	2,200	2,400	2,800	3,200					
Capacity[1]	m³	4.00	4.50	5.00	5.50	6.00	7.00	8.00					
Weight[2]	kg	3,005	3,140	3,280	3,630	3,775	4,040	4,330					
Grab model GMZ 120 (Shells for light material)													
Shell width	mm	2,400	2,800										
Capacity[1]	m³	10.00	12.00										
Weight[2]	kg	4,315	4,625										

Multi-tine grab

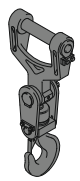
		open				semi-closed				closed, heart-shaped			
Grab model GMM 80-4 (4 tines)													
Capacity	m³	1.10	1.40	1.70		1.10	1.40	1.70		1.40	1.70		
Weight[2]	kg	1,900	1,940	2,000		2,095	2,150	2,210		2,405	2,560		
Grab model GMM 120-4 (4 tines)													
Capacity	m³	1.70	2.00	2.50	3.00	1.70	2.00	2.50	3.00				
Weight[2]	kg	2,155	2,200	2,255	2,305	2,390	2,445	2,535	2,625				
Grab model GMM 80-5 (5 tines)													
Capacity	m³	1.10	1.40	1.70		0.90	1.10	1.40	1.70	0.90	1.10	1.40	1.70
Weight[2]	kg	2,170	2,220	2,290		2,265	2,390	2,465	2,535	2,375	2,440	2,580	2,730
Grab model GMM 120-5 (5 tines)													
Capacity	m³	1.70	2.00	2.50	3.00	1.70	2.00	2.50	3.00	1.70	2.00	2.50	3.00
Weight[2]	kg	2,485	2,540	2,610	2,670	2,760	2,830	2,935	3,050	2,970	3,110	3,265	3,670

[1] capacity specifications are theoretically determined values; fill level varies depending on the material being loaded
[2] weights with XHD suspension
[3] weights incl. teeth

Attachments

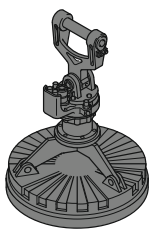
Wood grab

Grab model GMH 50 (Tong round overlapping)									
Size	m²	2.20	2.50	2.50	2.80	3.20	3.60		
Cutting width	mm	990	860	990	990	990	990		
Height of grab, closed	mm	2,323	2,416	2,416	2,521	2,649	2,814		
Weight[1]	kg	2,075	2,030	2,115	2,190	2,240	2,290		
Grab model GMH 50 (Tong combi-shaped, tip-to-tip closing)									
Size	m²	2.50	3.20	3.20	3.60	3.60	3,80[2]	3,80[2]	3.80
Cutting width	mm	860	860	990	860	990	860	990	990
Height of grab, closed	mm	2,529	2,766	2,766	2,877	2,877	2,924	2,924	2,972
Weight[1]	kg	2,195	2,315	2,405	2,375	2,470	2,375	2,480	2,455
Grab model GMH 50 (Tong heart-shaped, tip-to-tip closing, straight design)									
Size	m²	2.00	2.00	2,20[3]	2.20	2.50	2.80	3.20	3.60
Cutting width	mm	860	990	860	990	990	990	990	860
Height of grab, closed	mm	2,518	2,518	2,606	2,606	2,737	2,852	2,986	3,108
Weight[1]	kg	2,030	2,110	2,150	2,155	2,235	2,285	2,345	2,325
Grab model GMH 80 (Tong round overlapping)									
Size	m²	1.30	1.60	1.90	2.20	2.50			
Cutting width	mm	860	860	860	860	860			
Height of grab, closed	mm	2,805	2,905	2,983	3,065	3,142			
Weight[1]	kg	2,115	2,160	2,200	2,230	2,270			
Grab model GMH 100 (Tong combi-shaped, tip-to-tip closing)									
Size	m²	3.40	3.70	4.00					
Cutting width	mm	1,100	1,100	1,100					
Height of grab, closed	mm	2,995	3,120	3,250					
Weight[1]	kg	2,630	2,710	2,750					
Grab model GMH 100 (Tong heart-shaped, tip-to-tip closing, straight design)									
Size	m²	3.70							
Cutting width	mm	850							
Height of grab, closed	mm	3,350							
Weight[1]	kg	2,495							
Grab model GMH 120 (Tong round overlapping)									
Size	m²	2.80	3.20	3.60					
Cutting width	mm	870	870	870					
Height of grab, closed	mm	3,574	3,673	3,754					
Weight[1]	kg	2,725	2,750	2,790					
Grab model GMH 120 (Tong straight design, overlapping, two over one grab)									
Size	m²	1.40							
Cutting width	mm	870							
Height of grab, closed	mm	2,947							
Weight[1]	kg	2,550							



Load hook

Max. load	t	25
Weight	kg	255



Magnet devices / lifting magnets

Generator	kW	30	30
Electromagnet with suspension			
Power	kW	17.8	22
Diameter of magnet	mm	1,700	1,900
Weight	kg	3,280[4]	5,090[4]

[1] weights with XHD suspension
[2] tongs especially for truck unloading
[3] closed back sheet
[4] only magnet plate

Equipment

Undercarriage	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Track pads, variants		+		+	+
Individual control outriggers	+		●		
Three-piece chain guide		●		●	●
Shuttle axle lock, automatic	●		●		
Outrigger monitoring system	+		+		
Tyres, variants	+		+		
Trailing cable[2)]		●		●	●
Protection for piston rods, outriggers	+		+		
Two storage compartments	●				
Cable reel system[2)]		+		+	+

Uppercarriage	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Refuelling system with filling pump[1)]	+	+	+	+	+
Railing on uppercarriage	●	●	●	●	●
Generator	+	+	+	+	+
Main battery switch for electrical system	●	●	●	●	●
Amber beacon, at uppercarriage, LED double flash	+	+	+	+	+
Headlights on uppercarriage, rear, LED, 2 pieces	+	+			
Headlight on uppercarriage, right, halogen, 1 piece	●	●	●	●	●
Headlight underneath uppercarriage, rear, LED, 1 piece			+	+	+
Protection for headlights	+	+			
Tool equipment, extended	●	●	●	●	●

Hydraulic system	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Electronic pump regulation	●	●	●	●	●
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	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Fuel anti-theft device[1)]	+	+	+	+	+
Air pre-filter with dust discharge	+	+	+	+	+
Automatic engine shut-down (time adjustable)	+	+	+	+	+
Preheating fuel[1)]	+	+	+	+	+
Preheating coolant	+	+	+	+	+
Preheating engine oil*[1)]	+	+	+	+	+

Cooling system	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Reversible fan drive	+	+	+	+	+
Protective grid in front of cooler intake	●	●	●	●	●

Equipment

Cab	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Stabilizer, control lever, left console	+		+		
Stabilizer, proportional control on left joystick	●		●		
Armrest adjustable	●	●	●	●	●
Circular bubble level	●	●	●	●	●
Slewing gear brake Comfort, button on the left or right joystick	+	+	+	+	+
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	+	+	+	+	+
Footrest	+	+	+	+	+
Horn, button on left joystick	●	●	●	●	●
Joystick steering	●		●		
Cab elevation, hydraulic (LHC)	●	●	●	●	●
Cab elevation, hydraulic with double parallelogram (LHC-D)	+	+	+	+	+
Cab elevation, rigid (LFC)	+	+	+	+	+
Automatic air conditioning	●	●	●	●	●
Wheel steering (slim version)	+		+		
Engine shut-down (emergency stop) cab[2]		●		●	●
Proportional control	●	●	●	●	●
Radio Comfort, control via display with handsfree set	+	+	+	+	+
Preparation for radio installation	●	●	●	●	●
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+		+		
Amber beacon, on cab, LED double flash	+	+	+	+	+
Windows made from impact-resistant laminated safety glass	●	●	●	●	●
Windscreen wiper, roof	+	+	+	+	+
Windshield wiper, entire windscreen	●	●	●	●	●
Headlights on cab, rear, LED, 2 pieces	+	+	+	+	+
Headlights on cab, front, LED, 2 pieces	+	+	+	+	+
Headlights on cab, front, LED, 2 pieces (under rain shield)	●	●	●	●	●
FOPS top guard	+	+	+	+	+
FGPS front guard, tiltable	+	+	+	+	+
Sun visor	+	+	+	+	+
Stationary air-conditioning[2]		●		●	●
Left control console, folding	●	●	●	●	●

Equipment	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Boom shutoff (retract / extend), electronically	+	+	+	+	+
Equipment with electro-hydraulic end position control	●	●	●	●	●
AutoLift	+	+	+	+	+
Pressure warning mechanism hoist cylinder	●	●	●	●	●
ERC system	●	●	●	●	●
Filter system for attachment	+	+	+	+	+
Boom cylinder cushioning	●	●	●	●	●
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 valves stick cylinders	●	●	●	●	●
Headlights on boom, LED, 2 pieces	●	●	●	●	●
Headlights on stick, LED, 4 pieces	●	●	●	●	●
Quick coupling system MH 110B	+	+	+	+	+
Protection for piston rod, energy recovering cylinder	+	+	+	+	+
Protection for piston rods, hoist cylinder	+	+	+	+	+
Stick shutoff (retract), electronically	●	●	●	●	●
Stick shutoff (retract / extend), electronically	+	+	+	+	+
Retract stick without pressure	●	●	●	●	●
Sticks with quick coupling	+	+	+	+	+
Overload warning device	●	●	●	●	●

Complete machine	110 M	110 C	110 M HR	110 C HR	110 C Gantry
Liebherr Connect					
MyLiebherr Maintenance	+	+	+	+	+
MyLiebherr Performance	+	+	+	+	+
MyLiebherr Portal[3]	●	●	●	●	●
Lubrication					
Lubrication undercarriage, manually – centralised (one grease point)	●		●		
Central lubrication system for uppercarriage and equipment, automatically	●	●	●	●	●
Central lubrication system for undercarriage, automatically	+		+		
Centralised lubrication extended for attachment	+	+	+	+	+
Special coating					
Special coating, variants	+	+	+	+	+
Monitoring					
Rear view monitoring with camera	●	●	●	●	●
Side view monitoring with camera	●	●	●	●	●

● = Standard, + = Option

* country-dependent, [1] not with electric drive, [2] only with electric drive, [3] free activation required

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

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