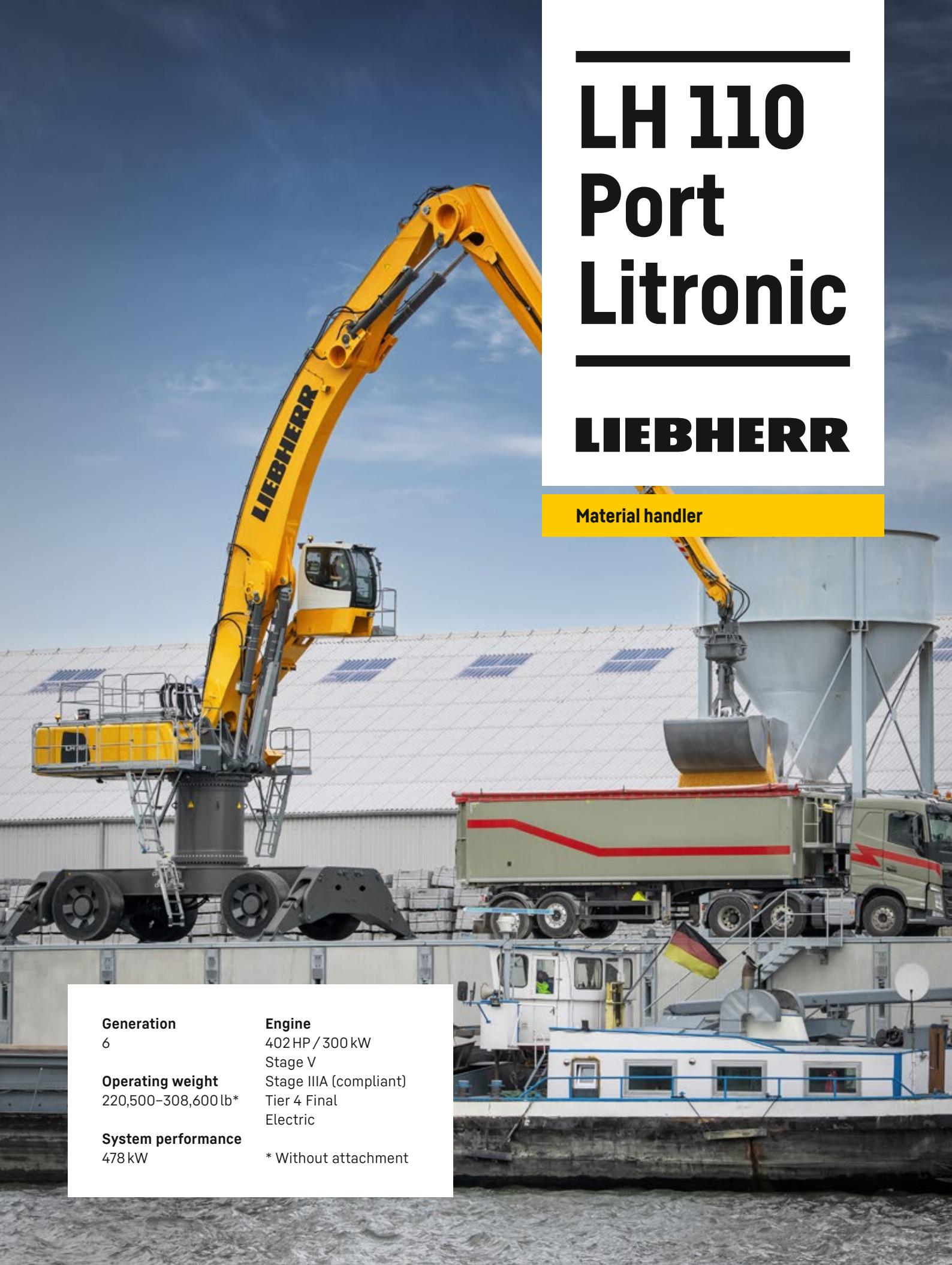


LH 110 Port Litronic

LIEBHERR

Material handler



Generation

6

Operating weight

220,500–308,600 lb*

System performance

478 kW

Engine

402 HP / 300 kW

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
220,500–242,500 lb*
Engine
402 HP / 300 kW
Stage V
Stage IIIA (compliant)
Tier 4 Final
System performance
478 kW

LH 110 C Port Litronic

Operating weight
231,500–275,600 lb*
Engine
402 HP / 300 kW (Diesel)
300 kW (Electric)
Stage V
Stage IIIA (compliant)
Tier 4 Final
System performance
478 kW

* Without attachment



LH 110 M High Rise Port Litronic

Operating weight

231,500–253,500 lb*

Engine

402 HP / 300 kW

Stage V

Stage IIIA (compliant)

Tier 4 Final

System performance

478 kW

LH 110 C High Rise Port Litronic

Operating weight

242,500–286,600 lb*

Engine

402 HP / 300 kW (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

264,600–308,600 lb*

Engine

402 HP / 300 kW (Diesel)

300 kW (Electric)

Stage V

Stage IIIA (compliant)

Tier 4 Final

Electric

System performance

478 kW

Technical data

Diesel engine

Rating	402 HP (300 kW) at 1,800 rpm
per SAE J1349	408 HP (300 kW) at 1,800 rpm
per ISO 9249	
Model	Liebherr D946
Type	6 cylinder in-line
Bore / Stroke	5.1 / 5.9 in
Displacement	729.23 in ³
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	359 gal
Urea tank	48 gal
Stage IIIA (compliant)	
Harmful emissions values	In accordance with ECE-R.96 Power Band H
Fuel tank	359 gal
Tier 4 Final	
Harmful emissions values	In accordance with 40CFR1039 (EPA) / 13CCR (CARB)
Emission control	Liebherr-SCRFilter technology
Fuel tank	359 gal
Urea tank	48 gal

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 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 equipment. Swing drive in separate closed circuit
Servo circuit	With electro-hydraulic pilot control and proportional joystick levers
Equipment and swing	With electric proportionally functioning foot pedals or adjusted with pluggable levers
Chassis	Via switch or electro-proportional foot pedals
Additional functions	Proportionally acting transmitters on the joysticks for additional hydraulic functions

Hydraulic system

Hydraulic pump	For equipment and travel drive
Max. flow	2 Liebherr axial piston variable displacement pumps (double construction) 2 x 122 gpm
Max. pressure	5,076 psi
For swing drive	Reversible axial piston variable displacement pump, closed-loop circuit
Max. flow	94 gpm
Max. pressure	5,004 psi
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	120 gal
Hydraulic system	310 gal
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	147,512 lbf ft
Holding brake	Wet multi-disc (spring applied, pressure released)
Option	Slewing gear brake Comfort

Cab

Cab	Modular 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 climatization 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 climatization 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, color 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

Undercarriage

Mobile	Standard, High Rise
Versions	One driven axle with transmission with Liebherr axial piston motor and functional brake valve on both sides
Drive	0–5.0 mph stepless
Travel speed	0–3.1 mph stepless (creep speed)
Joystick steering	Automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions
Driving operation	
Axles	198,400 lb 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	SW, High Rise, Gantry
Versions	Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage
Drive	0–2.5 mph stepless
Travel speed	0–1.6 mph stepless (creep 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

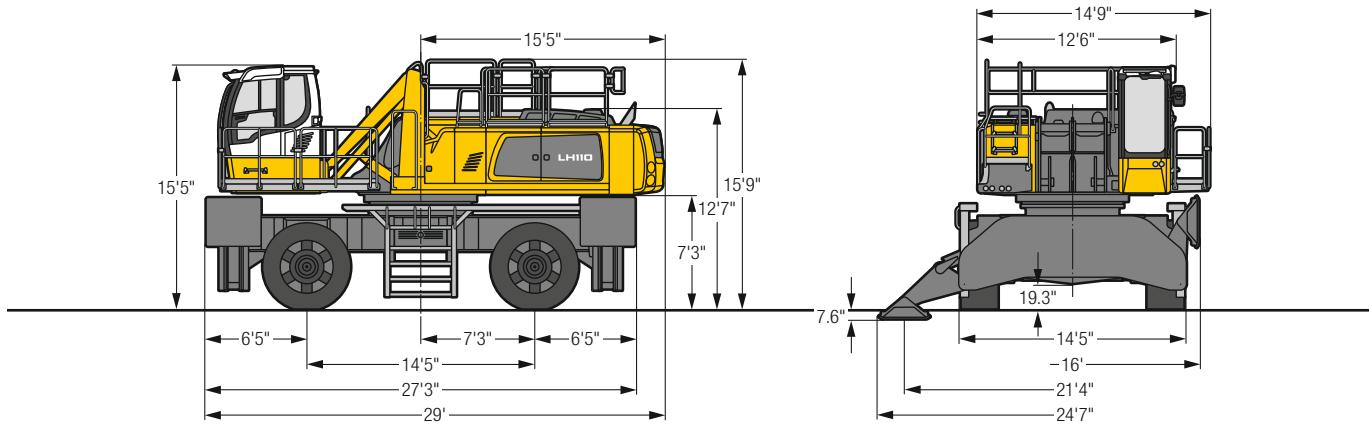
Type	Weight-optimized design for bulk and general cargo handling at optimal handling capacity. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Energy recovering cylinder	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-galvanized
Noise emission	70 dB(A) = L _{PA} (inside cab) 107 dB(A) = L _{WA} (surround noise)
ISO 6396	
2000/14/EC	

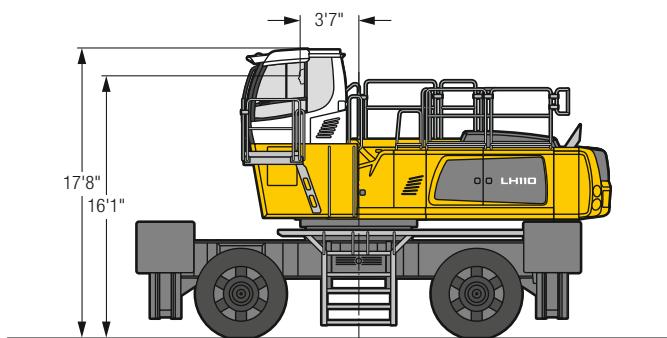
LH 110 M – Dimensions

Port



LH 110 M – Choice of cab elevation

Cab elevation LFC (rigid elevation)

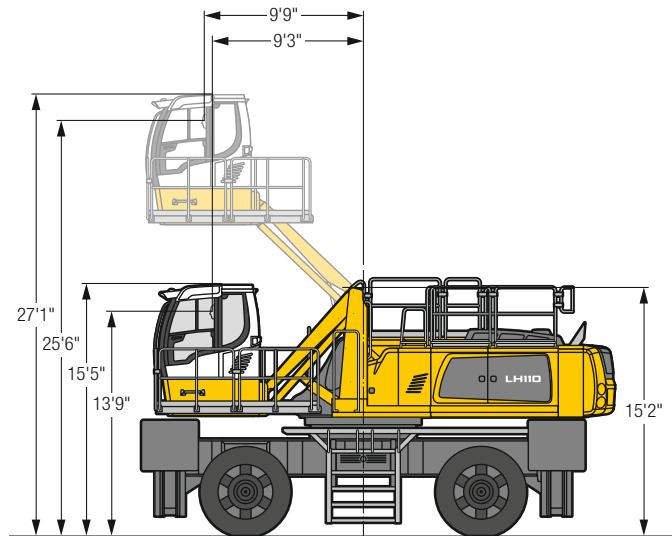


Cab elevation

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 14'9".

Cab elevation LHC (hydraulic elevation)



Cab elevation

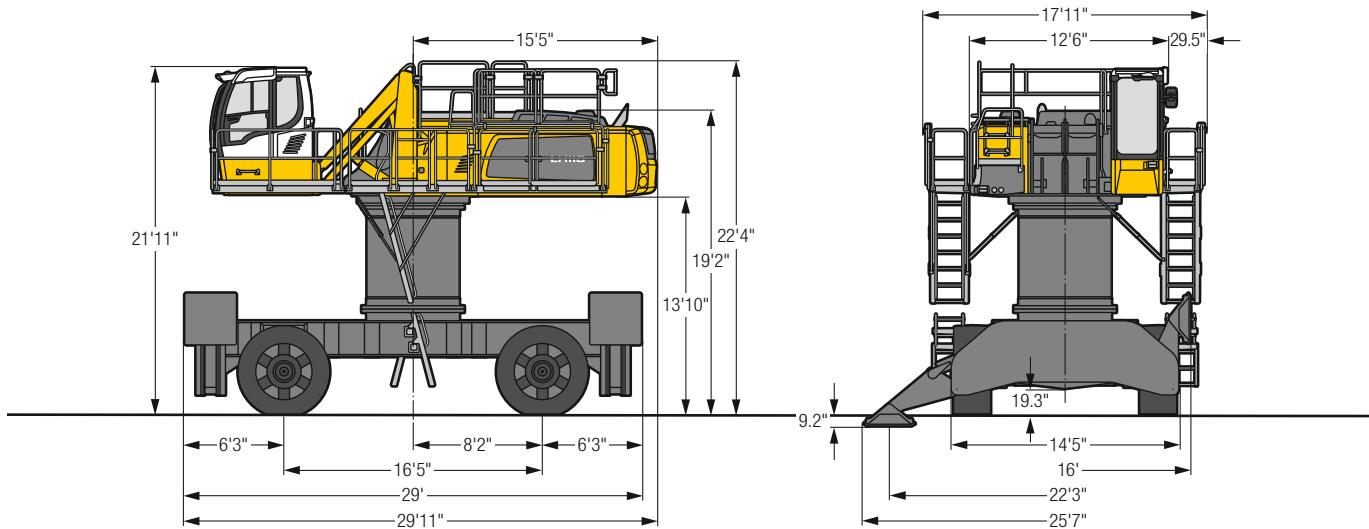
LHC 360-50

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

Tires 26.5-66

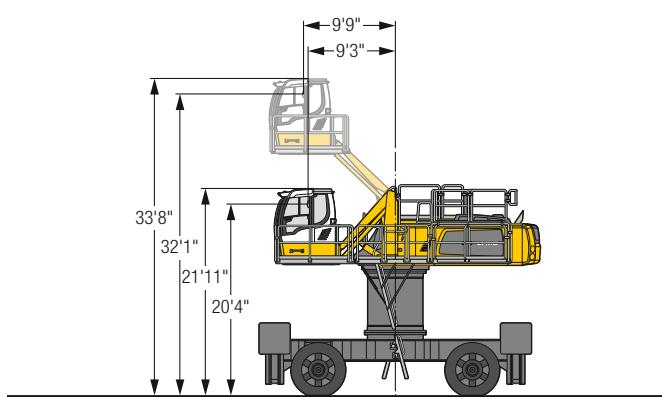
LH 110 M HR – Dimensions

Port



LH 110 M HR – Choice of cab elevation

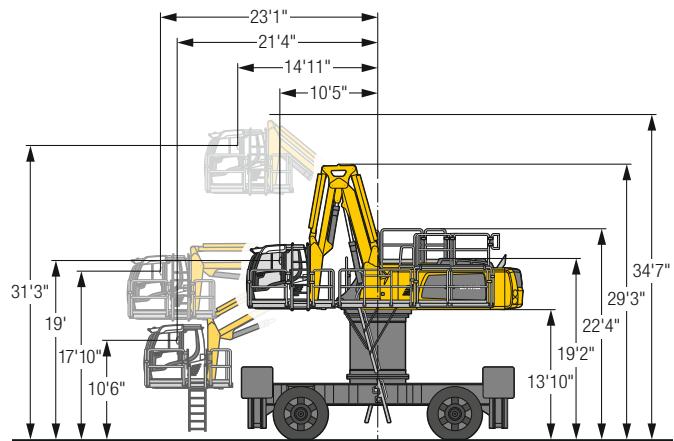
**Cab elevation LHC
(hydraulic elevation)**



Cab elevation

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)**

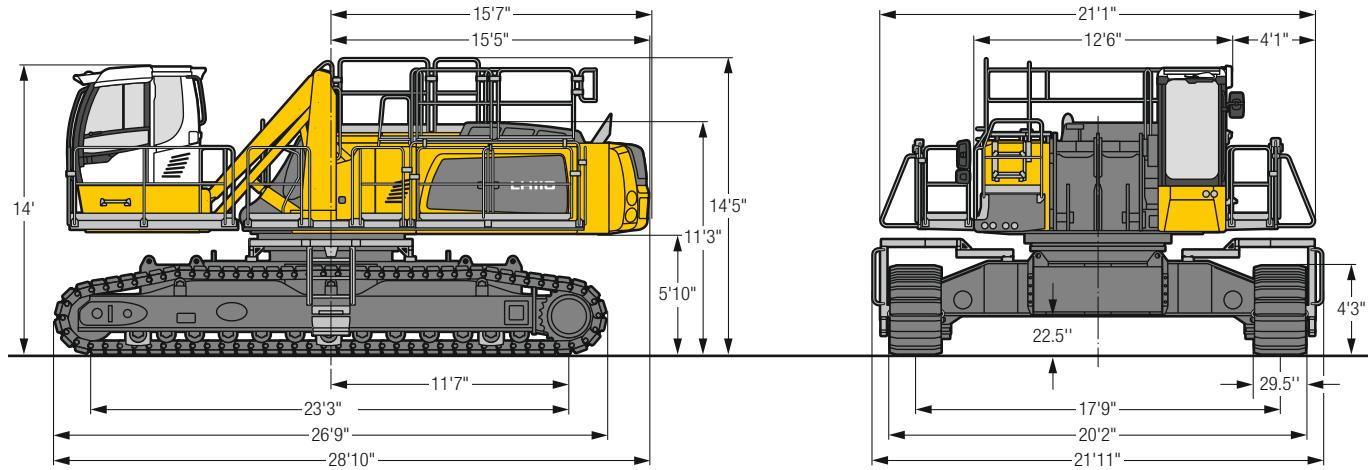


Cab elevation

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

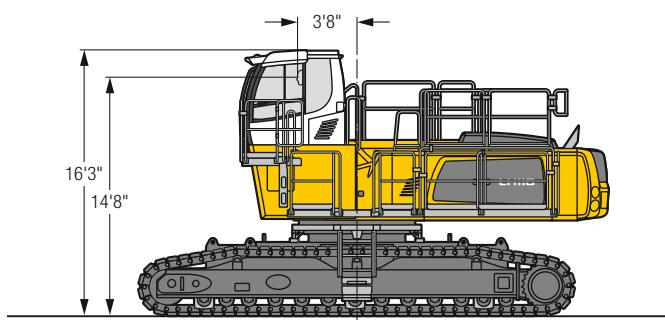
LH 110 C – Dimensions

Port



LH 110 C – Choice of cab elevation

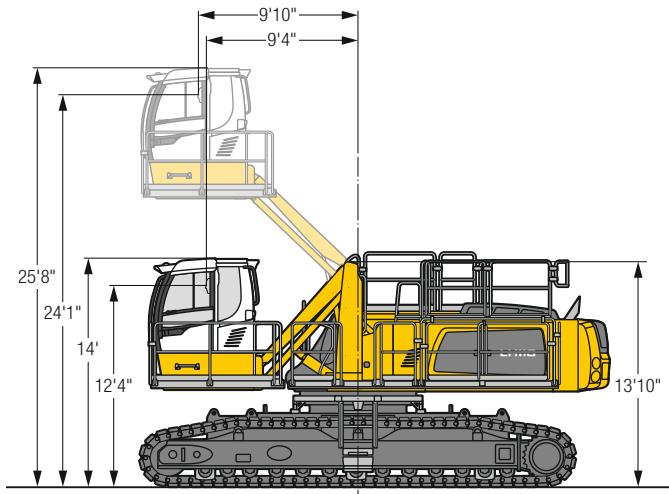
**Cab elevation LFC
(rigid elevation)**



Cab elevation

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 13'4".

**Cab elevation LHC
(hydraulic elevation)**

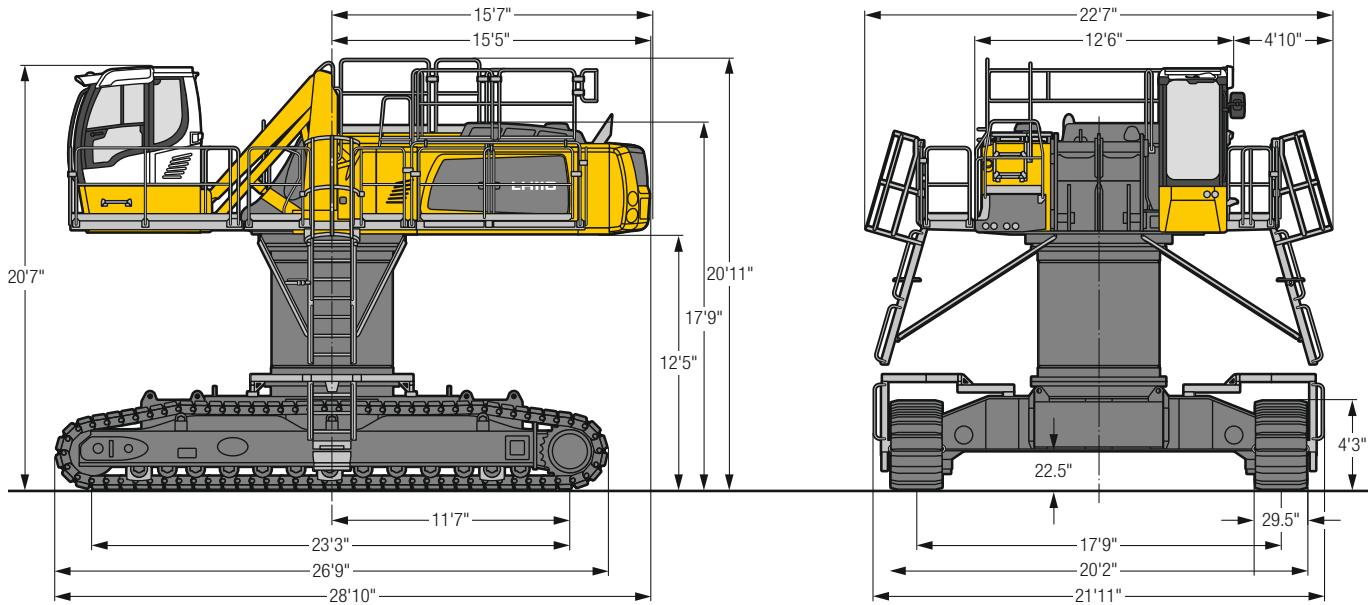


Cab elevation

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

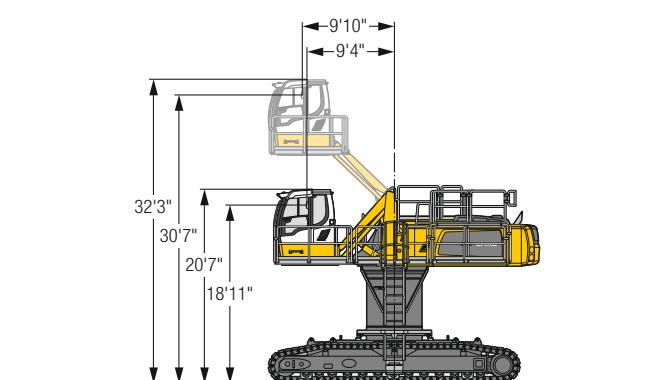
LH 110 C HR – Dimensions

Port



LH 110 C HR – Choice of cab elevation

Cab elevation LHC
(hydraulic elevation)

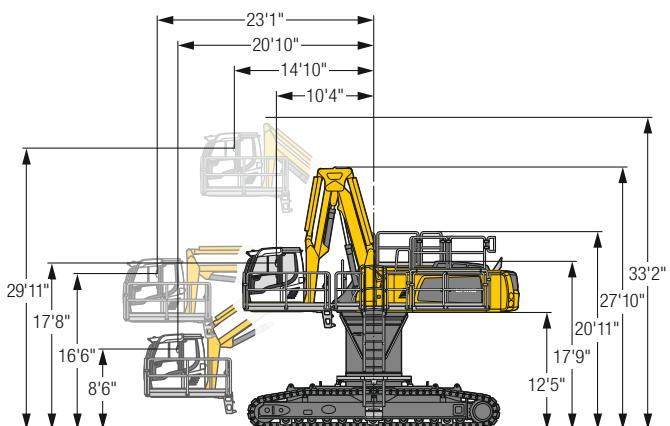


Cab elevation

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

LHC 360-50

Cab elevation LHC-D
(hydraulic elevation)



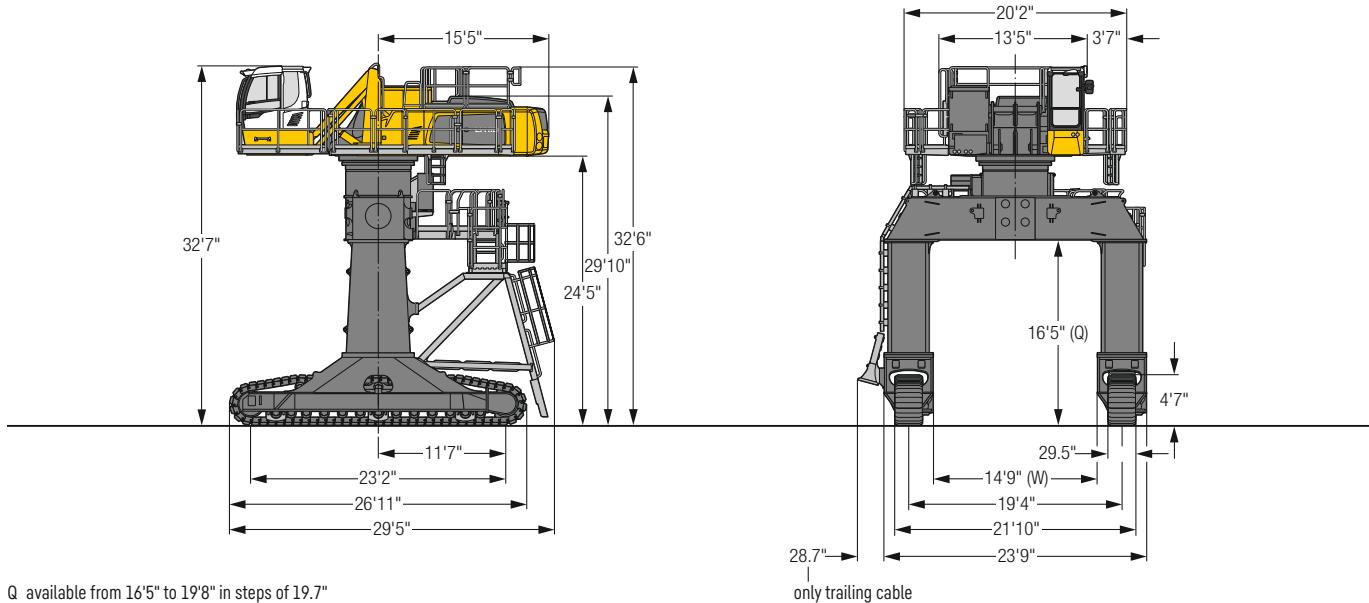
Cab elevation

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

LHC-D 730

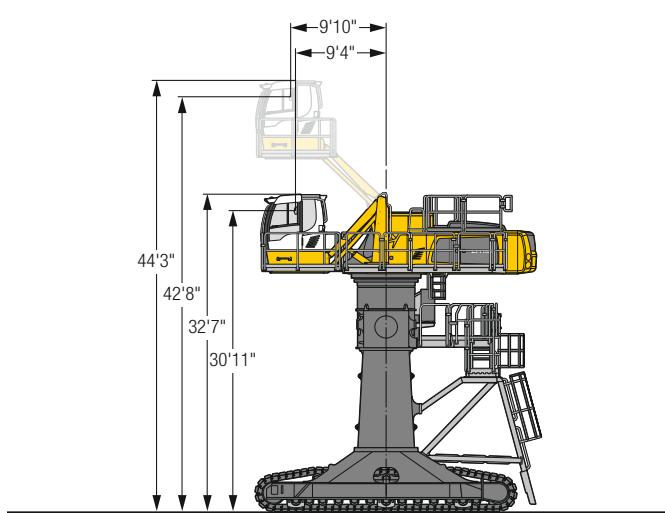
LH 110 C Gantry – Dimensions

Port



LH 110 C Gantry – Choice of cab elevation

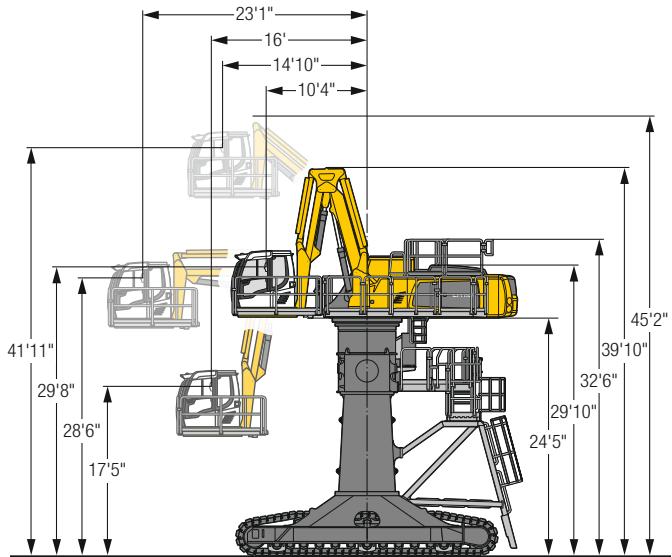
Cab elevation LHC (hydraulic elevation)



Cab elevation

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)



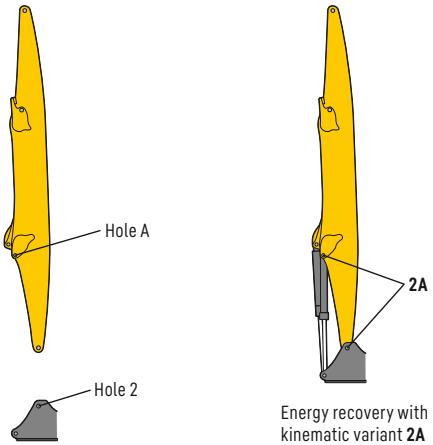
Cab elevation

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

Kinematic variants

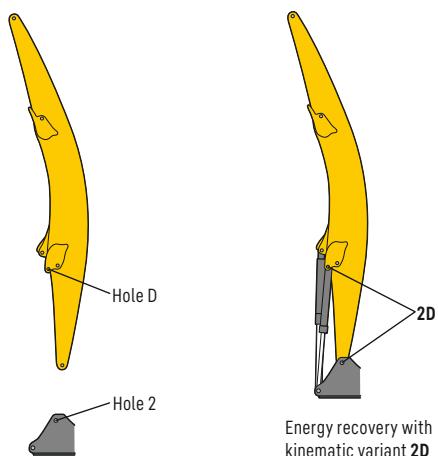
Variolift  plus®

Kinematic variant 2A

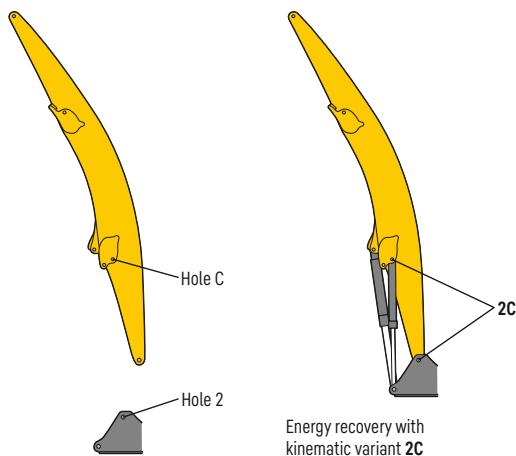


Energy recovery with
kinematic variant 2A

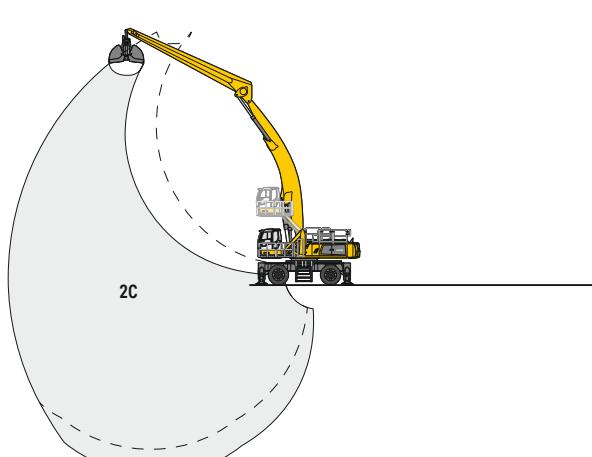
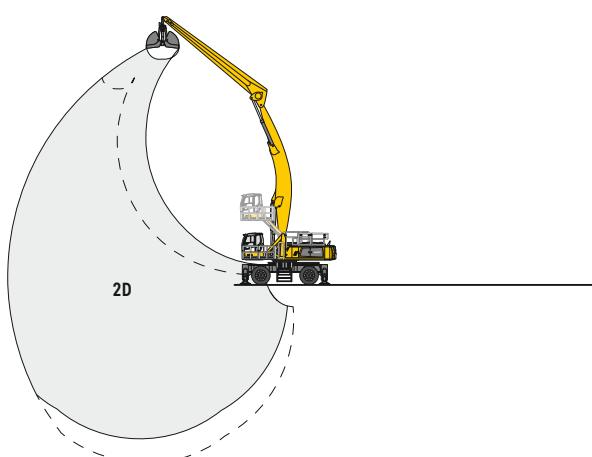
Kinematic variant 2D / 2C



Energy recovery with
kinematic variant 2D



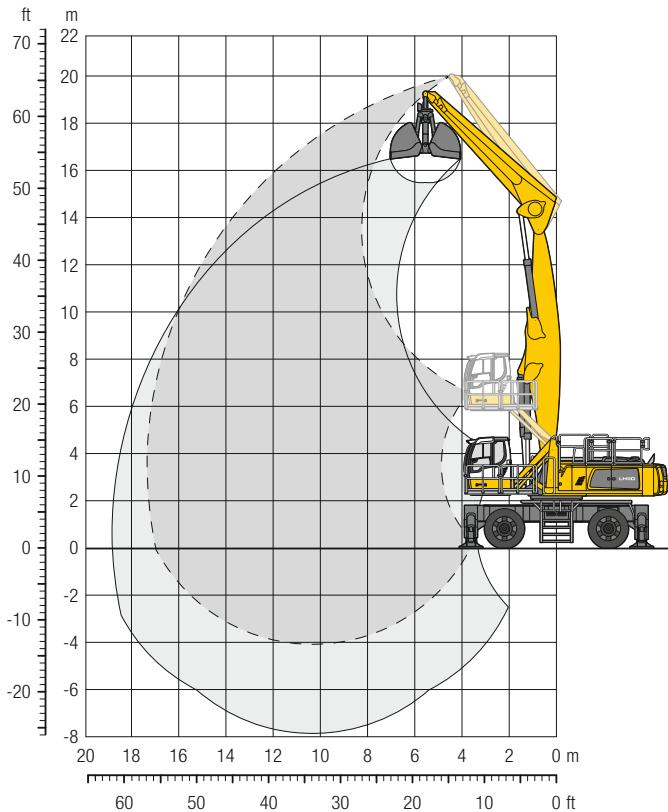
Energy recovery with
kinematic variant 2C



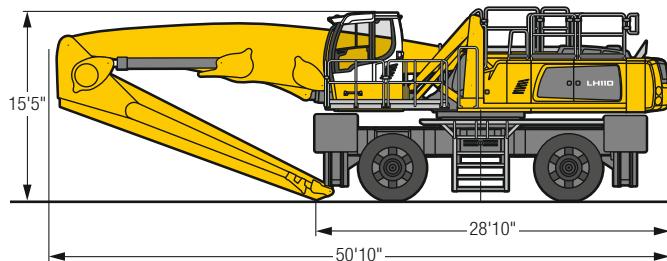
Altered range curve with additional reach depth, e.g. for unloading from ships

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 tires, straight boom 32'10", straight stick 24'7" and clamshell grab GMZ 120 / 10.46yd³.

Weight

222,400 lb

	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	75 ft	80 ft	85 ft	90 ft	ft in
Undercarriage	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4 pt. outriggers down	54,7° 54,7°	53,4° 53,4°	42,3° 42,3°													60,1° 60,1° 17' 1"
4 pt. outriggers down	58,9° 58,9°	51,3° 51,3°	47,6° 47,6°	41,0° 41,0°												44,2° 44,2° 28' 8"
4 pt. outriggers down		50,5° 50,5°	46,7° 46,7°	43,8° 43,8°	36,4° 36,4°											38,2° 38,2° 36' 1"
4 pt. outriggers down		50,8° 50,8°	46,7° 46,7°	43,6° 43,6°	41,1° 41,1°											34,9° 34,9° 41' 6"
4 pt. outriggers down		51,9° 51,9°	47,5° 47,5°	43,9° 43,9°	41,1° 41,1°	38,8° 38,8°										32,9° 32,9° 45' 8"
4 pt. outriggers down		60,8° 60,8°	54,0° 54,0°	48,8° 48,8°	44,8° 44,8°	41,5° 41,5°	38,9° 38,9°									31,6° 31,6° 49' 1"
4 pt. outriggers down		77,2° 77,2°	65,2° 65,2°	56,9° 56,9°	50,7° 50,7°	46,0° 46,0°	42,3° 42,3°	39,2° 39,2°	31,9° 31,9°							30,8° 30,8° 51' 8"
4 pt. outriggers down	86,2° 86,2°	70,6° 70,6°	60,3° 60,3°	53,0° 53,0°	47,5° 47,5°	43,2° 43,2°	39,6° 39,6°	36,1° 36,1°								30,4° 30,4° 53' 8"
4 pt. outriggers down	96,0° 96,0°	76,3° 76,3°	63,9° 63,9°	55,3° 55,3°	49,0° 49,0°	44,1° 44,1°	40,0° 40,0°	36,0° 36,0°								30,3° 30,3° 55' 2"
4 pt. outriggers down	97,8° 97,8°	81,3° 81,3°	67,1° 67,1°	57,4° 57,4°	50,3° 50,3°	44,8° 44,8°	40,1° 40,1°	35,4° 35,4°								30,9° 30,9° 56' 10"
4 pt. outriggers down	51,3° 51,3°	84,5° 84,5°	69,3° 69,3°	58,8° 58,8°	51,0° 51,0°	45,0° 45,0°	39,7° 39,7°	34,1° 34,1°								31,7° 31,7° 56' 11"
4 pt. outriggers down	44,7° 44,7°	84,9° 84,9°	69,8° 69,8°	59,0° 59,0°	50,9° 50,9°	44,3° 44,3°	38,4° 38,4°	31,4° 31,4°								31,8° 31,8° 56' 6"
4 pt. outriggers down	46,4° 46,4°	82,0° 82,0°	68,1° 68,1°	57,6° 57,6°	49,4° 49,4°	42,4° 42,4°	35,7° 35,7°									30,0° 30,0° 55' 8"
4 pt. outriggers down	75,3° 75,3°	63,5° 63,5°	53,9° 53,9°	45,9° 45,9°	38,5° 38,5°											31,9° 31,9° 52' 5"
4 pt. outriggers down																36,6° 36,6° 46' 4"

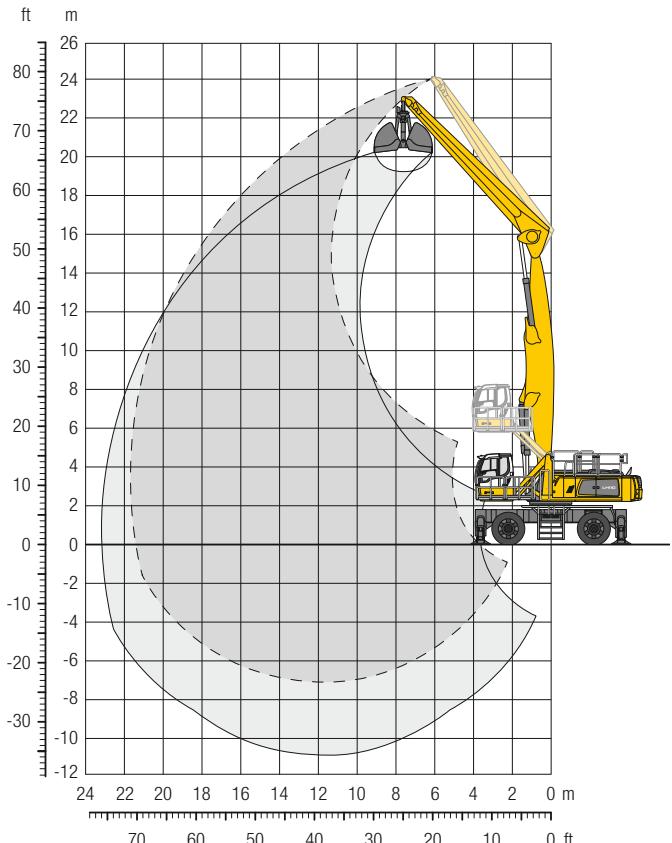
Height Can be slewed through 360° In longitudinal position of undercarriage

Max. reach * Limited by hyd. capacity

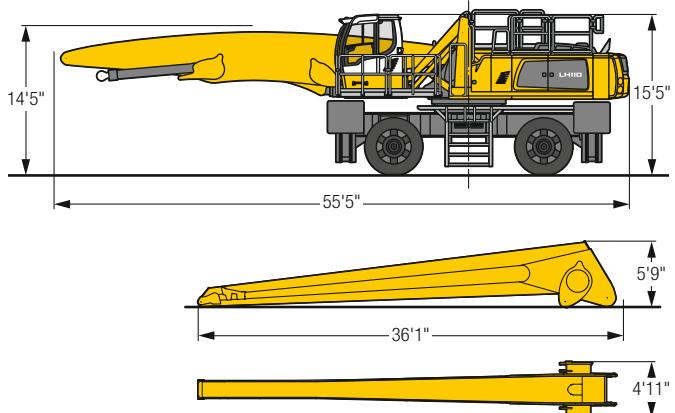
The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the 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.

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 tires, straight boom 37'9", straight stick 34'5" and clamshell grab GMZ 120 / 7.85yd³.

Weight 224,900lb

	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft				
ft	Undercarriage															ft in			
75	4 pt. outriggers down															34'5" 34'5" 30' 8"			
70	4 pt. outriggers down			35'8" 35'8"	37'0" 37'0"											29'0" 29'0" 39' 7"			
65	4 pt. outriggers down				40'9" 40'9"	36'5" 36'5" 29'0" 29'0"										26'0" 26'0" 46' 4"			
60	4 pt. outriggers down					36'8" 36'8" 34'7" 34'7"	28'0" 28'0"									24'1" 24'1" 51' 7"			
55	4 pt. outriggers down						36'0" 36'0" 33'9" 33'9"	32'2" 32'2" 25'5" 25'5"								22'8" 22'8" 56'			
50	4 pt. outriggers down						35'7" 35'7" 33'6" 33'6"	31'8" 31'8" 30'3" 30'3"								21'9" 21'9" 59' 7"			
45	4 pt. outriggers down						35'8" 35'8" 33'6" 33'6"	31'7" 31'7" 30'1" 30'1"	28'0" 28'0"							21'3" 21'3" 62' 7"			
40	4 pt. outriggers down						36'2" 36'2" 33'9" 33'9"	31'8" 31'8" 30'1" 30'1"	28'7" 28'7" 21'1" 21'1"							20'8" 20'8" 65' 1"			
35	4 pt. outriggers down						40'1" 40'1" 37'0" 37'0"	34'4" 34'4" 32'2" 32'2"	30'4" 30'4" 28'7" 28'7"	26'8" 26'8"							20'6" 20'6" 67' 1"		
30	4 pt. outriggers down						41'7" 41'7" 38'1" 38'1"	35'2" 35'2" 32'8" 32'8"	30'8" 30'8" 29'0" 29'0"	27'3" 27'3"							68' 7"		
25	4 pt. outriggers down						48'8" 48'8" 43'6" 43'6"	39'6" 39'6" 36'3" 36'3"	33'6" 33'6" 31'3" 31'3"	29'3" 29'3" 27'4" 27'4"							20'5" 20'5" 69'10"		
20	4 pt. outriggers down						58'2" 58'2" 52'1" 52'1"	45'9" 45'9" 41'2" 41'2"	37'4" 37'4" 34'4" 34'4"	31'8" 31'8" 29'6" 29'6"	27'6" 27'6" 23'0" 23'0"							20'6" 20'6" 70' 7"	
15	4 pt. outriggers down						81'5" 81'5" 65'9" 65'9"	55'6" 55'6" 48'4" 48'4"	42'9" 42'9" 38'7" 38'7"	35'2" 35'2" 32'4" 32'4"	29'9" 29'9" 27'6" 27'6"	25'0" 25'0"							20'9" 20'9" 71"
10	4 pt. outriggers down						90'5" 90'5" 71'3" 71'3"	59'2" 59'2" 50'7" 50'7"	44'6" 44'6" 39'8" 39'8"	36'0" 36'0" 32'9" 32'9"	30'2" 30'2" 27'6" 27'6"	24'7" 24'7"							21'3" 21'3" 71' 1"
5	4 pt. outriggers down						58'1" 58'1" 75'7" 75'7"	62'1" 62'1" 52'8" 52'8"	46'0" 46'0" 40'8" 40'8"	36'7" 36'7" 33'2" 33'2"	30'2" 30'2" 27'3" 27'3"	23'8" 23'8"							21'9" 21'9" 70'10"
0	4 pt. outriggers down						36'0" 36'0" 78'6" 78'6"	64'2" 64'2" 54'3" 54'3"	47'0" 47'0" 41'5" 41'5"	37'0" 37'0" 33'3" 33'3"	30'0" 30'0" 26'7" 26'7"	22'3" 22'3"							22'1" 22'1" 70' 2"
-5	4 pt. outriggers down						32'2" 32'2" 62'5" 62'5"	65'0" 65'0" 54'9" 54'9"	47'4" 47'4" 41'6" 41'6"	36'9" 36'9" 32'9" 32'9"	29'3" 29'3" 25'4" 25'4"							21'0" 21'0" 69' 1"	
-10	4 pt. outriggers down						32'8" 32'8" 55'0" 55'0"	64'2" 64'2" 54'4" 54'4"	46'9" 46'9" 41'0" 41'0"	36'2" 36'2" 31'9" 31'9"	27'8" 27'8" 23'2" 23'2"							22'0" 22'0" 66'	
-15	4 pt. outriggers down						35'1" 35'1" 53'7" 53'7"	61'5" 61'5" 52'4" 52'4"	45'3" 45'3" 39'4" 39'4"	34'5" 34'5" 29'9" 29'9"	25'3" 25'3"							24'0" 24'0" 61' 2"	
-20	4 pt. outriggers down						55'3" 55'3"	56'5" 56'5" 48'6" 48'6"	42'1" 42'1"	36'5" 36'5"	31'4" 31'4"							28'1" 28'1" 53' 6"	

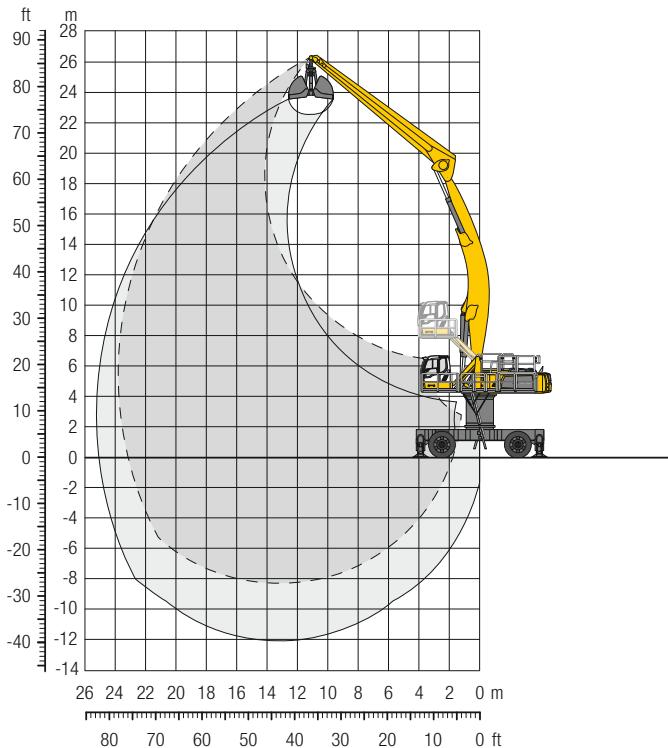
Height Can be slewed through 360° In longitudinal position of undercarriage

Max. reach * Limited by hydr. capacity

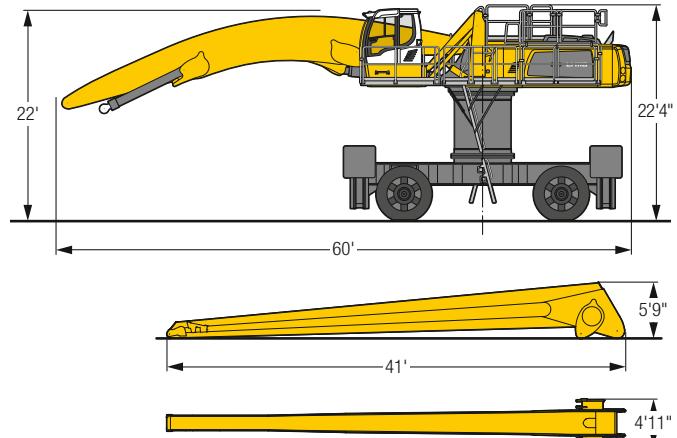
The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the 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.

LH 110 M HR – Equipment AG24

Port – Kinematic 2D



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, turret 6'7", hydr. cab elevation, 4 solid tires, angled boom 42'8", straight stick 39'4" and clamshell grab GMZ 120 / 6.54 yd³.

Weight

244,700lb

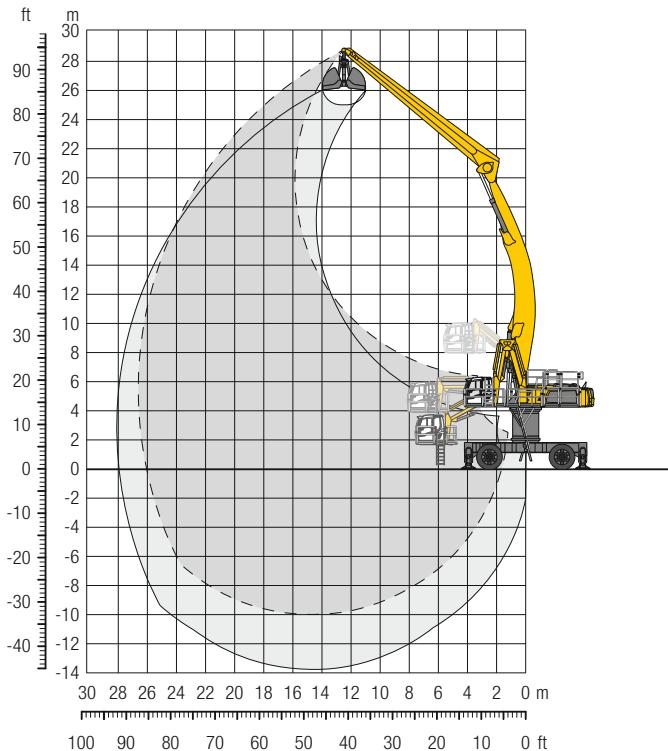
	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft		
ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	in	
Undercarriage																	
90	4 pt. outriggers down															23.6° 23.6° 39' 6"	
85	4 pt. outriggers down															21.3° 21.3° 47' 1"	
80	4 pt. outriggers down						23.9° 23.9°									19.9° 19.9° 53' 1"	
75	4 pt. outriggers down						26.1° 26.1°	23.8° 23.8°								19.0° 19.0° 58' 1"	
70	4 pt. outriggers down						24.2° 24.2°	23.1° 23.1°								18.3° 18.3° 62' 4"	
65	4 pt. outriggers down						23.8° 23.8°	22.8° 22.8°	21.6° 21.6°							17.8° 17.8° 65'10"	
60	4 pt. outriggers down						23.7° 23.7°	22.6° 22.6°	21.8° 21.8°	19.1° 19.1°						17.5° 17.5° 68' 8"	
55	4 pt. outriggers down						23.7° 23.7°	22.6° 22.6°	21.7° 21.7°	21.0° 21.0°						17.4° 17.4° 71' 2"	
50	4 pt. outriggers down						25.4° 25.4°	24.0° 24.0°	22.8° 22.8°	21.8° 21.8°	21.0° 21.0°	19.6° 19.6°				17.3° 17.3° 73' 4"	
45	4 pt. outriggers down						25.9° 25.9°	24.4° 24.4°	23.2° 23.2°	22.1° 22.1°	21.1° 21.1°	20.4° 20.4°				17.4° 17.4° 74'11"	
40	4 pt. outriggers down						26.7° 26.7°	25.1° 25.1°	23.6° 23.6°	22.4° 22.4°	21.4° 21.4°	20.5° 20.5°				17.5° 17.5° 76' 2"	
35	4 pt. outriggers down						30.0° 30.0°	27.7° 27.7°	25.8° 25.8°	24.2° 24.2°	22.9° 22.9°	21.7° 21.7°	20.8° 20.8°	20.0° 20.0°	17.7° 17.7° 77' 2"		
30	4 pt. outriggers down						34.9° 34.9°	31.6° 31.6°	28.9° 28.9°	26.7° 26.7°	24.9° 24.9°	23.4° 23.4°	22.1° 22.1°	21.1° 21.1°	20.2° 20.2°	18.1° 18.1° 77'10"	
25	4 pt. outriggers down						49.7° 49.7°	42.5° 42.5°	37.3° 37.3°	33.3° 33.3°	30.2° 30.2°	27.7° 27.7°	25.7° 25.7°	24.0° 24.0°	22.6° 22.6°	21.4° 21.4°	20.4° 20.4°
20	4 pt. outriggers down	69.1° 69.1°	55.1° 55.1°	46.1° 46.1°	39.8° 39.8°	35.2° 35.2°	31.6° 31.6°	28.8° 28.8°	26.5° 26.5°	24.7° 24.7°	23.1° 23.1°	21.8° 21.8°	20.6° 20.6°			18.5° 18.5° 78'	
15	4 pt. outriggers down	77.5° 77.5°	60.4° 60.4°	49.6° 49.6°	42.3° 42.3°	37.0° 37.0°	33.0° 33.0°	29.9° 29.9°	27.4° 27.4°	25.3° 25.3°	23.6° 23.6°	22.1° 22.1°	20.8° 20.8°			19.1° 19.1° 78'	
10	4 pt. outriggers down	44.7° 44.7°	65.0° 65.0°	52.9° 52.9°	44.7° 44.7°	38.8° 38.8°	34.4° 34.4°	30.9° 30.9°	28.2° 28.2°	25.9° 25.9°	24.1° 24.1°	22.4° 22.4°	20.9° 20.9°			19.8° 19.8° 77' 7"	
5	4 pt. outriggers down	32.3° 32.3°	60.6° 60.6°	55.6° 55.6°	46.7° 46.7°	40.4° 40.4°	35.6° 35.6°	31.9° 31.9°	28.9° 28.9°	26.5° 26.5°	24.4° 24.4°	22.6° 22.6°	20.9° 20.9°			20.2° 20.2° 76'11"	
0	4 pt. outriggers down	29.1° 29.1°	47.1° 47.1°	57.6° 57.6°	48.3° 48.3°	41.7° 41.7°	36.6° 36.6°	32.7° 32.7°	29.5° 29.5°	26.9° 26.9°	24.7° 24.7°	22.7° 22.7°	20.7° 20.7°			20.3° 20.3° 75'10"	
-5	4 pt. outriggers down	28.8° 28.8°	42.3° 42.3°	58.7° 58.7°	49.4° 49.4°	42.5° 42.5°	37.3° 37.3°	33.2° 33.2°	29.9° 29.9°	27.1° 27.1°	24.7° 24.7°	22.5° 22.5°				20.4° 20.4° 74' 5"	
-10	4 pt. outriggers down	29.6° 29.6°	40.9° 40.9°	58.9° 58.9°	49.7° 49.7°	42.9° 42.9°	37.6° 37.6°	33.4° 33.4°	29.9° 29.9°	27.0° 27.0°	24.4° 24.4°	21.8° 21.8°				20.3° 20.3° 72' 8"	
-15	4 pt. outriggers down	30.9° 30.9°	40.9° 40.9°	57.9° 57.9°	49.2° 49.2°	42.5° 42.5°	37.3° 37.3°	33.1° 33.1°	29.5° 29.5°	26.4° 26.4°	23.6° 23.6°	20.5° 20.5°				20.2° 20.2° 70' 6"	
-20	4 pt. outriggers down	41.9° 41.9°	55.7° 55.7°	47.6° 47.6°	41.3° 41.3°	36.3° 36.3°	32.1° 32.1°	28.4° 28.4°	25.2° 25.2°	21.9° 21.9°						21.4° 21.4° 65' 8"	
-25	4 pt. outriggers down						44.8° 44.8°	39.0° 39.0°	34.2° 34.2°	30.1° 30.1°	26.4° 26.4°					25.9° 25.9° 55' 8"	
-30	4 pt. outriggers down																

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

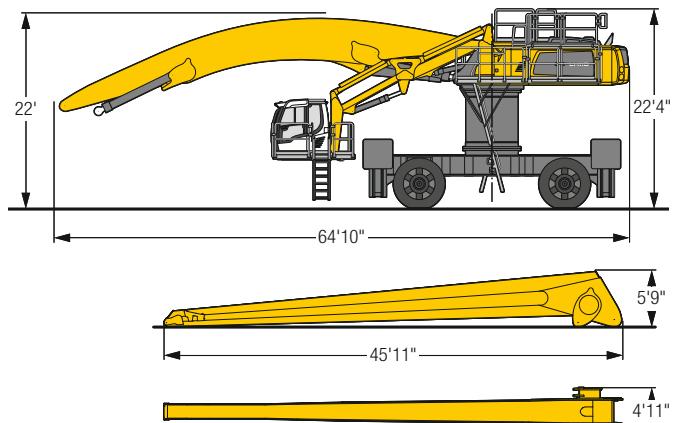
The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the 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.

LH 110 M HR – Equipment AG27

Port – Kinematic 2D



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, turret 6'7", hydr. cab elevation, 4 solid tires, angled boom 47'7", straight stick 44'3" and clamshell grab GMZ 120 / 5.88 yd³.

Weight

252,700 lb

	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	
Undercarriage	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	ft in
4 pt. outriggers down							22.7*	22.7*	18.5*	18.5*						19.2* 19.2* 48'11"
4 pt. outriggers down							22.1*	22.1*	20.9*	20.9*						17.8* 17.8* 55' 7"
4 pt. outriggers down							20.5*	20.5*	19.5*	19.5*	17.3*	17.3*				16.8* 16.8* 61' 2"
4 pt. outriggers down							20.3*	20.3*	19.2*	19.2*	18.4*	18.4*	15.7*	15.7*		16.2* 16.2* 66'
4 pt. outriggers down							20.2*	20.2*	19.1*	19.1*	18.2*	18.2*	17.5*	17.5*		15.7* 15.7* 70'
4 pt. outriggers down							20.2*	20.2*	19.1*	19.1*	18.2*	18.2*	16.8*	16.8*		15.3* 15.3* 73' 6"
4 pt. outriggers down							20.4*	20.4*	19.2*	19.2*	18.2*	18.2*	17.4*	17.4*		15.1* 15.1* 76' 6"
4 pt. outriggers down							20.4*	20.4*	19.2*	19.2*	18.2*	18.2*	16.7*	16.7*		14.9* 14.9* 79'
4 pt. outriggers down							22.0*	22.0*	20.6*	19.4*	19.4*	18.4*	17.5*	17.5*		14.8* 14.8* 81' 2"
4 pt. outriggers down							22.4*	22.4*	21.0*	21.0*	19.7*	19.7*	18.6*	18.6*		14.8* 14.8* 83'
4 pt. outriggers down							24.9*	24.9*	23.0*	23.0*	21.4*	21.4*	20.0*	20.0*		14.9* 14.9* 86'
4 pt. outriggers down							28.3*	28.3*	25.8*	25.8*	23.7*	23.7*	21.9*	21.9*		15.1* 15.1* 85' 7"
4 pt. outriggers down							33.1*	33.1*	29.6*	29.6*	26.7*	26.7*	24.4*	24.4*		15.3* 15.3* 86' 5"
4 pt. outriggers down							40.5*	40.5*	35.1*	35.1*	31.0*	31.0*	27.8*	27.8*		15.6* 15.6* 87'
4 pt. outriggers down							65.9*	65.9*	52.2*	52.2*	43.3*	43.3*	37.1*	37.1*		15.6* 15.6* 87' 2"
4 pt. outriggers down							72.6*	72.6*	56.3*	56.3*	46.1*	46.1*	39.1*	39.1*		15.6* 15.6* 87' 2"
4 pt. outriggers down							33.0*	33.0*	59.9*	59.9*	48.6*	48.6*	40.9*	40.9*		15.7* 15.7* 86'10"
4 pt. outriggers down							24.2*	24.2*	43.5*	43.5*	50.8*	50.8*	42.6*	42.6*		15.8* 15.8* 86' 2"
4 pt. outriggers down							22.0*	22.0*	34.6*	34.6*	52.4*	52.4*	43.9*	43.9*		15.8* 15.8* 85' 4"
4 pt. outriggers down							21.8*	21.8*	31.5*	31.5*	48.3*	48.3*	44.8*	44.8*		15.8* 15.8* 84'
4 pt. outriggers down							22.6*	22.6*	30.5*	30.5*	43.7*	43.7*	45.2*	45.2*		15.8* 15.8* 82' 6"
4 pt. outriggers down							23.7*	23.7*	30.7*	30.7*	43.7*	43.7*	45.2*	45.2*		15.7* 15.7* 80' 7"
4 pt. outriggers down							30.7*	30.7*	41.9*	41.9*	45.1*	45.1*	38.9*	38.9*		15.5* 15.5* 78' 4"
4 pt. outriggers down							31.4*	31.4*	41.4*	41.4*	44.2*	44.2*	38.3*	38.3*		16.6* 16.6* 73'
4 pt. outriggers down							32.4*	32.4*	41.9*	41.9*	42.5*	42.5*	37.0*	37.0*		19.8* 19.8* 63' 1"
4 pt. outriggers down							39.7*	39.7*	34.8*	34.8*	30.7*	30.7*	27.3*	27.3*		

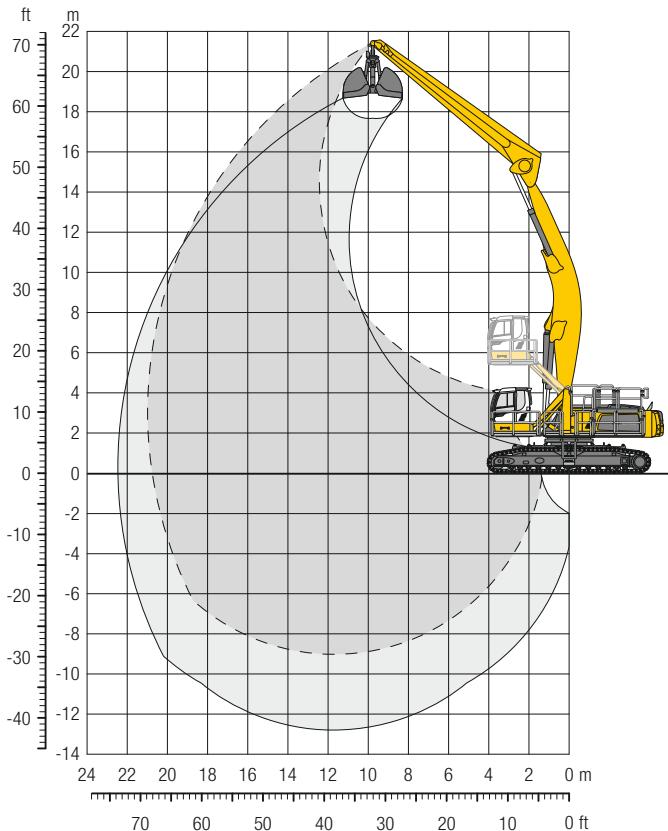
Height Can be slewed through 360° In longitudinal position of undercarriage

Max. reach * Limited by hydr. capacity

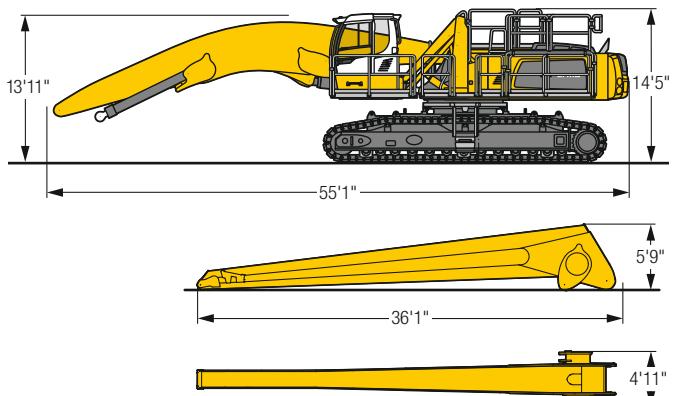
The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the 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.

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 37'9", straight stick 34'5" and clamshell grab GMZ 120 / 7.85 yd³.

Weight	242,000 lb
Pad width	30"
Ground pressure	on request

ft	Undercarriage	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	75 ft	80 ft	85 ft	90 ft	ft in
70	SW																28.6° 28.6° 32'10"
65	SW																25.3° 25.3° 40'10"
60	SW																23.4° 23.4° 46'11"
55	SW																22.2° 22.2° 51'10"
50	SW																21.4° 21.4° 55'10"
45	SW																20.9° 20.9° 59' 2"
40	SW																20.6° 20.6° 61'11"
35	SW																20.5° 20.5° 64' 1"
30	SW																20.5° 20.5° 65'11"
25	SW				35.8° 35.8°	33.1° 33.1°	30.9° 30.9°	29.1° 29.1°	27.5° 27.5°	26.3° 26.3°	25.3° 25.3°						20.7° 20.7° 67' 2"
20	SW				42.6° 42.6°	38.3° 38.3°	34.9° 34.9°	32.3° 32.3°	30.1° 30.1°	28.3° 28.3°	26.8° 26.8°	25.6° 25.6°					21.0° 21.0° 68' 1"
15	SW	65.9° 65.9°	54.4° 54.4°	46.6° 46.6°	41.1° 41.1°	37.0° 37.0°	33.8° 33.8°	31.2° 31.2°	29.1° 29.1°	27.4° 27.4°	26.0° 26.0°						21.4° 21.4° 68' 8"
10	SW	76.4° 76.4°	60.7° 60.7°	50.9° 50.9°	44.1° 44.1°	39.1° 39.1°	35.4° 35.4°	32.4° 32.4°	30.0° 30.0°	28.1° 28.1°	26.4° 26.4°						22.1° 22.1° 65'10"
5	SW	85.9° 85.9°	66.8° 66.8°	55.0° 55.0°	47.0° 47.0°	41.3° 41.3°	37.0° 37.0°	33.6° 33.6°	30.9° 30.9°	28.7° 28.7°	26.4 26.8°						22.9° 22.9° 68' 8"
0	SW	53.8° 53.8°	71.8° 71.8°	58.5° 58.5°	49.6° 49.6°	43.2° 43.2°	38.4° 38.4°	34.7° 34.7°	31.7° 31.7°	29.2° 29.2°	26.0 27.0°						23.9° 23.9° 68' 1"
-5	SW	42.3° 42.3°	75.4° 75.4°	61.4° 61.4°	51.8° 51.8°	44.8° 44.8°	39.7° 39.7°	35.6° 35.6°	32.3° 32.3°	28.8 29.6°	25.7 27.0°						24.5 25.1° 67' 1"
-10	SW	39.4° 39.4°	64.3° 64.3°	63.2° 63.2°	53.2° 53.2°	46.0° 46.0°	40.5° 40.5°	36.2° 36.2°	32.2° 32.6°	28.5 29.5°	25.5 26.5°						25.1 25.9° 65'10"
-15	SW	39.4° 39.4°	59.0° 59.0°	63.7° 63.7°	53.8° 53.8°	46.5° 46.5°	40.8° 40.8°	36.2 36.3	31.8 32.4°	28.3 28.9°						25.9 25.9° 64'	
-20	SW	40.6° 40.6°	57.6° 57.6°	62.9° 62.9°	53.3° 53.3°	46.1° 46.1°	40.3° 40.3°	35.6° 35.6°	31.5° 31.5°	27.4° 27.4°						25.7° 25.7° 61'10"	
-25	SW	58.5° 58.5°	60.3° 60.3°	51.4° 51.4°	44.5° 44.5°	38.8° 38.8°	33.9° 33.9°	29.3° 29.3°								28.7° 28.7° 55' 7"	

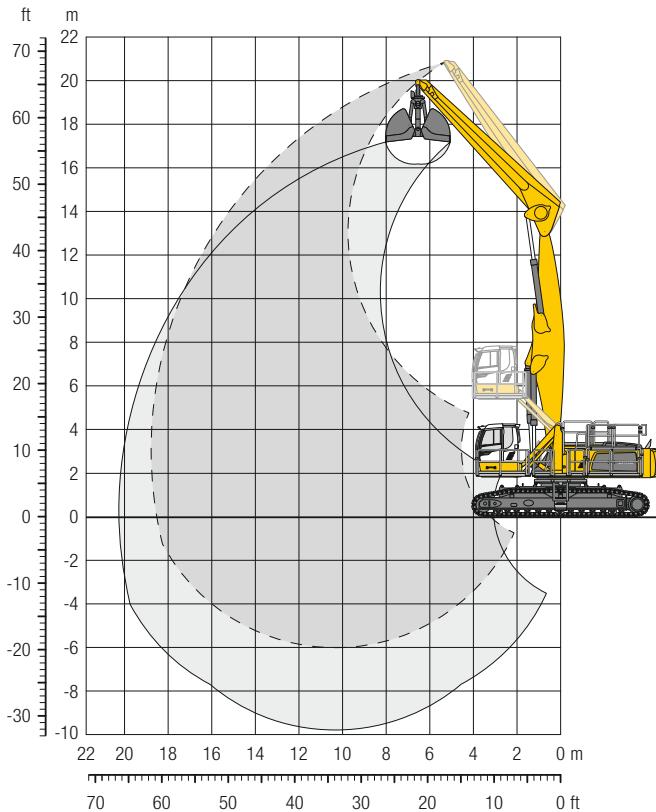
Height Can be slewed through 360° In longitudinal position of undercarriage

Max. reach * Limited by hydr. capacity

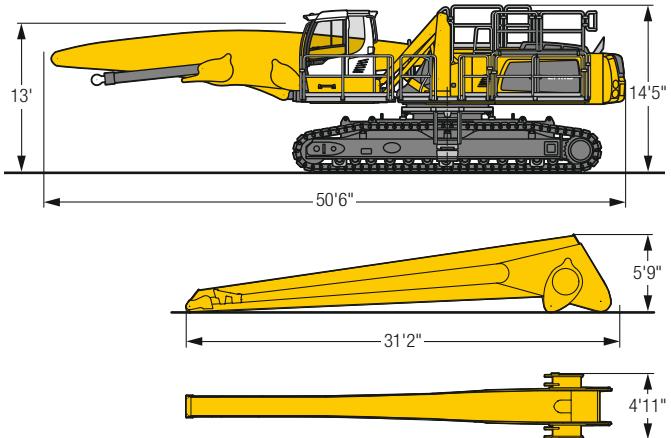
The lift capacities on the stick end without attachment are stated in lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 30" wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. 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.

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 32'10", straight stick 29'6" and clamshell grab GMZ 120 / 10.46 yd³.

Weight	239,100 lb
Pad width	30"
Ground pressure	on request

ft	Undercarriage	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	75 ft	80 ft	85 ft	90 ft	ft in
70	SW																41,0* 41,0* 26' 6"
65	SW																34,0* 34,0* 35' 4"
60	SW																30,3* 30,3* 41' 7"
55	SW																28,1* 28,1* 46' 7"
50	SW																26,6* 26,6* 50' 6"
45	SW																25,7* 25,7* 53' 8"
40	SW																25,1* 25,1* 56' 2"
35	SW																24,7* 24,7* 58' 2"
30	SW																24,6* 24,6* 59' 8"
25	SW																24,7* 24,7* 60'10"
20	SW	61,8* 61,8*	54,3* 54,3*	48,6* 48,6*	44,2* 44,2*	40,6* 40,6*	37,7* 37,7*	35,1* 35,1*	28,6* 28,6*								24,9* 24,9* 61' 5"
15	SW	82,2* 82,2*	67,8* 67,8*	58,2* 58,2*	51,2* 51,2*	46,0* 46,0*	41,8* 41,8*	38,4* 38,4*	35,4* 35,4*	31,0* 32,0*							25,4* 25,4* 61' 7"
10	SW	92,7* 92,7*	74,1* 74,1*	62,1* 62,1*	53,9* 53,9*	47,7* 47,7*	43,0* 43,0*	39,1* 39,1*	35,1* 35,7*	30,8* 32,0*							26,1* 26,1* 61' 5"
5	SW	101,5* 101,5*	79,5* 79,5*	65,7* 65,7*	56,2* 56,2*	49,3* 49,3*	43,9* 43,9*	39,5* 39,5*	34,7* 35,6*	30,6* 31,2*							27,1* 27,1* 60'10"
0	SW	64,4* 64,4*	83,2* 83,2*	68,2* 68,2*	57,9* 57,9*	50,3* 50,3*	44,5* 44,5*	39,2* 39,6*	34,3* 35,0*	29,6* 29,6*							27,3* 27,3* 59' 5"
-5	SW	51,6* 51,6*	84,3* 84,3*	69,2* 69,2*	58,5* 58,5*	50,5* 50,5*	44,2* 44,2*	38,8* 38,8*	33,5* 33,5*								29,3* 29,3* 55'10"
-10	SW	50,1* 50,1*	82,5* 82,5*	68,1* 68,1*	57,6* 57,6*	49,5* 49,5*	42,9* 42,9*	36,9* 36,9*	30,5* 30,5*								33,2* 33,2* 49'11"
-15	SW	52,5* 52,5*	77,1* 77,1*	64,4* 64,4*	54,6* 54,6*	46,6* 46,6*	39,8* 39,8*										
-20	SW																
-25	SW																

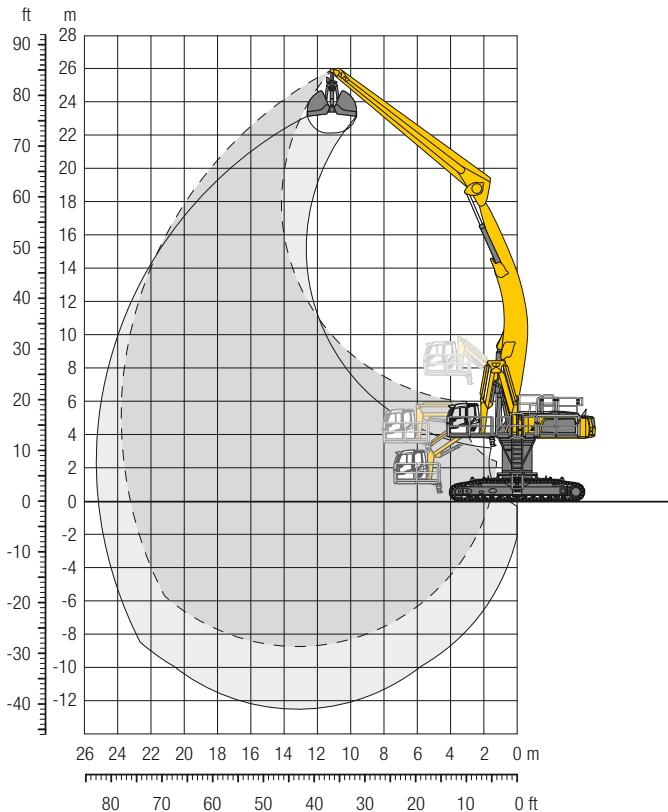
Height Can be slewed through 360° In longitudinal position of undercarriage

Max. reach * Limited by hydr. capacity

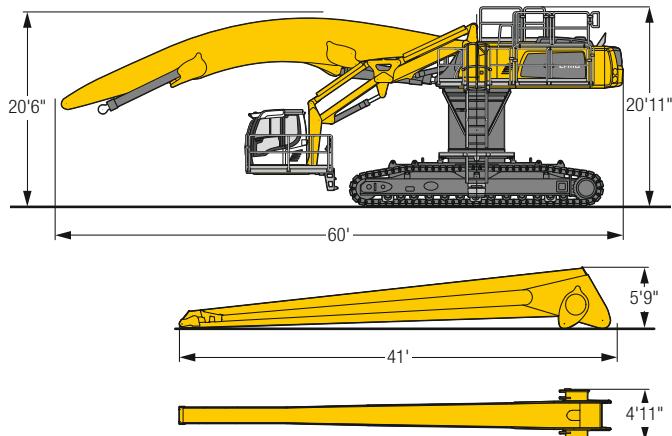
The lift capacities on the stick end without attachment are stated in lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 30" wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. 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.

LH 110 C HR – Equipment AG24

Port – Kinematic 2D



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with turret 6'7", hydr. cab elevation, angled boom 42'8", straight stick 39'4" and clamshell grab GMZ 120 / 6.54 yd³.

Weight	259,200 lb
Pad width	30"
Ground pressure	on request

ft	Undercarriage	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	ft in
85	SW																22.0* 22.0* 44'10"
80	SW																20.3* 20.3* 51' 4"
75	SW																19.2* 19.2* 56' 7"
70	SW																18.5* 18.5* 61'
65	SW																18.0* 18.0* 64' 8"
60	SW																17.6* 17.6* 67'10"
55	SW																17.4* 17.4* 70' 5"
50	SW																17.3* 17.3* 72' 7"
45	SW																17.3* 17.3* 74' 5"
40	SW																17.5* 17.5* 75'10"
35	SW																17.5* 17.5* 76'11"
30	SW																17.7* 17.7* 77' 7"
25	SW	41.4* 41.4*	36.5* 36.5*	32.7* 32.7*	29.8* 29.8*	27.4* 27.4*	25.4* 25.4*	23.8* 23.8*	22.4* 22.4*	21.3* 21.3*	20.3* 20.3*						18.0* 18.0* 77' 7"
20	SW	66.1* 66.1*	53.3* 53.3*	44.9* 44.9*	39.0* 39.0*	34.6* 34.6*	31.2* 31.2*	28.5* 28.5*	26.3* 26.3*	24.5* 24.5*	22.9* 22.9*	21.6* 21.6*	20.5* 20.5*				18.4* 18.4* 78'
15	SW	74.9* 74.9*	58.7* 58.7*	48.5* 48.5*	41.5* 41.5*	36.4* 36.4*	32.6* 32.6*	29.5* 29.5*	27.1* 27.1*	25.1* 25.1*	23.4* 23.4*	22.0* 22.0*	20.7* 20.7*				18.9* 18.9* 78'
10	SW	55.1* 55.1*	63.5* 63.5*	51.9* 51.9*	43.9* 43.9*	38.2* 38.2*	33.9* 33.9*	30.6* 30.6*	27.9* 27.9*	25.7* 25.7*	23.9* 23.9*	22.3* 22.3*	20.9* 20.9*				19.5* 19.5* 77'10"
5	SW	34.7* 34.7*	67.5* 67.5*	54.8* 54.8*	46.1* 46.1*	39.9* 39.9*	35.2* 35.2*	31.6* 31.6*	28.7* 28.7*	26.3* 26.3*	24.3* 24.3*	22.6* 22.6*	20.9* 20.9*				20.2* 20.2* 77' 2"
0	SW	29.7* 29.7*	50.1* 50.1*	57.0* 57.0*	47.9* 47.9*	41.3* 41.3*	36.3* 36.3*	32.4* 32.4*	29.3* 29.3*	26.8* 26.8*	24.6* 24.6*	22.7* 22.7*	20.8* 20.8*				20.3* 20.3* 76' 2"
-5	SW	28.7* 28.7*	43.4* 43.4*	58.4* 58.4*	49.1* 49.1*	42.3* 42.3*	37.1* 37.1*	33.1* 33.1*	29.8* 29.8*	27.1* 27.1*	24.7* 24.7*	22.6* 22.6*				20.4* 20.4* 74'11"	
-10	SW	29.2* 29.2*	41.1* 41.1*	58.9* 58.9*	49.7* 49.7*	42.8* 42.8*	37.5* 37.5*	33.4* 33.4*	30.0* 30.0*	27.1* 27.1*	24.5* 24.5*	22.1* 22.1*				20.4* 20.4* 73' 4"	
-15	SW	30.4* 30.4*	40.8* 40.8*	58.4* 58.4*	49.5* 49.5*	42.7* 42.7*	37.5* 37.5*	33.2* 33.2*	29.7* 29.7*	26.7* 26.7*	23.9* 23.9*	21.1* 21.1*				20.3* 20.3* 71' 2"	
-20	SW	31.9* 31.9*	41.5* 41.5*	56.6* 56.6*	48.3* 48.3*	41.8* 41.8*	36.7* 36.7*	32.5* 32.5*	28.9* 28.9*	25.7* 25.7*	22.6* 22.6*					20.6* 20.6* 67'11"	
-25	SW			53.3* 53.3*	45.9* 45.9*	39.9* 39.9*	35.0* 35.0*	30.9* 30.9*	27.2* 27.2*							23.9* 23.9* 59'11"	

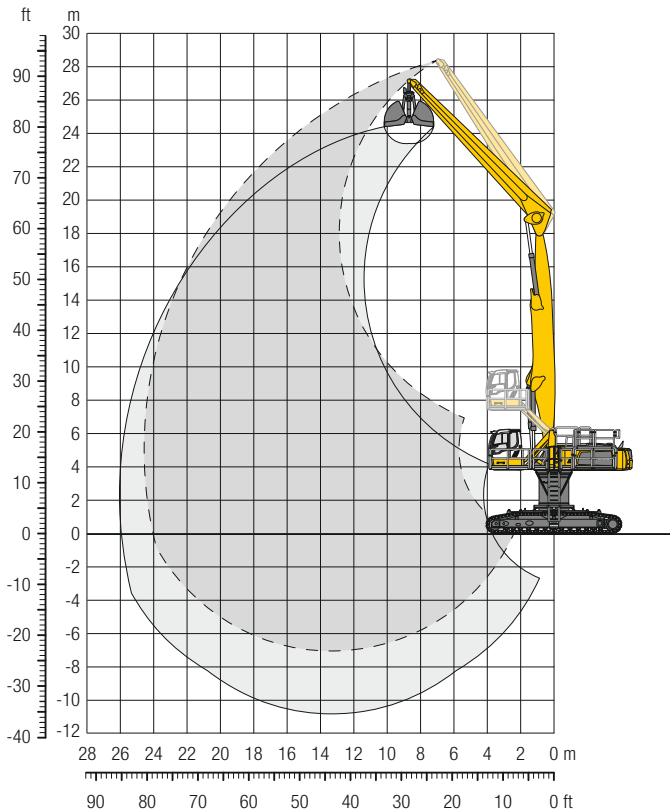
Height Can be slewed through 360° In longitudinal position of undercarriage

Max. reach * Limited by hydr. capacity

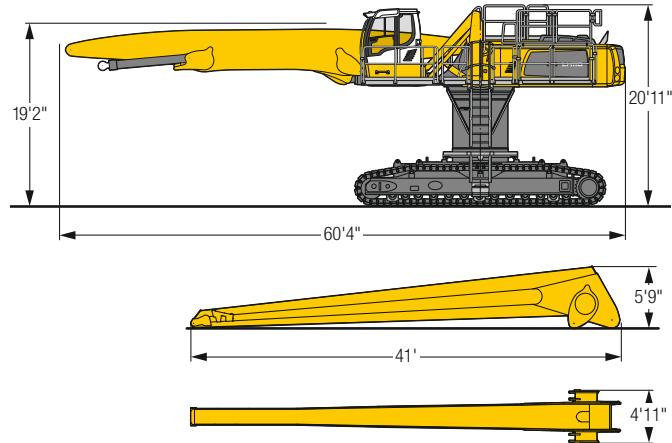
The lift capacities on the stick end without attachment are stated in lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 30" wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. 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.

LH 110 C HR – Equipment GG25

Port – Kinematic 2A



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with turret 6'7", hydr. cab elevation, straight boom 42'8", straight stick 39'4" and clamshell grab GMZ 120 / 6.54 yd³.

Weight	258,500 lb
Pad width	39"
Ground pressure	on request

ft	Undercarriage	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	ft in				
90	SW			34.0° 34.0°													31.3° 31.3° 31'11"				
85	SW				34.4° 34.4°	28.9° 28.9°											26.1° 26.1° 41'10"				
80	SW					33.9° 33.9°	29.3° 29.3°										23.3° 23.3° 49' 2"				
75	SW						34.4° 34.4°	31.8° 31.8°	28.8° 28.8°	21.8° 21.8°						21.4° 21.4° 55' 2"					
70	SW							31.1° 31.1°	29.1° 29.1°	27.5° 27.5°	20.4° 20.4°						20.2° 20.2° 60' 1"				
65	SW							30.7° 30.7°	28.7° 28.7°	27.1° 27.1°	25.7° 25.7°						19.2° 19.2° 64' 4"				
60	SW							30.5° 30.5°	28.5° 28.5°	26.9° 26.9°	25.4° 25.4°	23.9° 23.9°						18.6° 18.6° 67'10"			
55	SW							30.6° 30.6°	28.5° 28.5°	26.8° 26.8°	25.3° 25.3°	24.1° 24.1°	19.9° 19.9°					18.1° 18.1° 70'10"			
50	SW							30.8° 30.8°	28.7° 28.7°	26.9° 26.9°	25.3° 25.3°	24.0° 24.0°	22.8° 22.8°					17.7° 17.7° 73' 4"			
45	SW							33.9° 33.9°	31.2° 31.2°	29.0° 29.0°	27.1° 27.1°	25.5° 25.5°	24.1° 24.1°	22.8° 22.8°	18.6° 18.6°			17.5° 17.5° 75' 5"			
40	SW							34.7° 34.7°	31.9° 31.9°	29.5° 29.5°	27.5° 27.5°	25.7° 25.7°	24.2° 24.2°	22.8° 22.8°	21.6° 21.6°			17.4° 17.4° 77' 1"			
35	SW							39.6° 39.6°	35.8° 35.8°	32.7° 32.7°	30.1° 30.1°	27.9° 27.9°	26.0° 26.0°	24.4° 24.4°	23.0° 23.0°	21.6° 21.6°		17.3° 17.3° 78' 6"			
30	SW							44.9° 44.9°	41.3° 41.3°	37.1° 37.1°	33.6° 33.6°	30.8° 30.8°	28.4° 28.4°	26.4° 26.4°	24.7° 24.7°	23.1° 23.1°	21.6° 21.6°	17.4° 17.4° 79' 6"			
25	SW							47.6° 47.6°	49.7° 49.7°	43.3° 43.3°	38.5° 38.5°	34.7° 34.7°	31.6° 31.6°	29.0° 29.0°	26.8° 26.8°	24.9° 24.9°	23.2° 23.2°	21.6° 21.6°	18.2° 18.2°		
20	SW							71.0° 71.0°	63.0° 63.0°	52.7° 52.7°	45.4° 45.4°	40.0° 40.0°	35.7° 35.7°	32.4° 32.4°	29.6° 29.6°	27.2° 27.2°	25.2° 25.2°	23.3° 23.3°	21.6° 21.6°	19.5° 19.5°	
15	SW							85.9° 85.9°	67.4° 67.4°	55.6° 55.6°	47.4° 47.4°	41.4° 41.4°	36.8° 36.8°	33.1° 33.1°	30.1° 30.1°	27.6° 27.6°	25.4° 25.4°	23.4° 23.4°	21.4° 21.4°	19.0° 19.0°	
10	SW							35.5° 35.5°	71.0° 71.0°	58.0° 58.0°	49.1° 49.1°	42.6° 42.6°	37.7° 37.7°	33.7° 33.7°	30.5° 30.5°	27.8° 27.8°	25.5° 25.5°	23.3° 23.3°	21.1° 21.1°	18.3° 18.3°	
5	SW							23.6° 23.6°	53.7° 53.7°	59.8° 59.8°	50.4° 50.4°	43.5° 43.5°	38.3° 38.3°	34.2° 34.2°	30.8° 30.8°	27.9° 27.9°	25.4° 25.4°	23.0° 23.0°	20.6° 20.6°		17.3° 17.3° 79'10"
0	SW							21.7° 21.7°	40.1° 40.1°	60.5° 60.5°	51.0° 51.0°	44.0° 44.0°	38.6° 38.6°	34.3° 34.3°	30.8° 30.8°	27.7° 27.7°	25.0° 25.0°	22.4° 22.4°	19.6° 19.6°		16.5° 16.5° 78'11"
-5	SW							22.5° 22.5°	36.4° 36.4°	60.0° 60.0°	50.8° 50.8°	43.8° 43.8°	38.4° 38.4°	34.0° 34.0°	30.4° 30.4°	27.2° 27.2°	24.3° 24.3°	21.4° 21.4°	18.0° 18.0°		16.3° 16.3° 76'11"
-10	SW							24.4° 24.4°	36.0° 36.0°	57.7° 57.7°	49.5° 49.5°	42.9° 42.9°	37.5° 37.5°	33.2° 33.2°	29.5° 29.5°	26.2° 26.2°	23.1° 23.1°	19.8° 19.8°		17.4° 17.4° 73' 1"	
-15	SW							26.9° 26.9°	37.2° 37.2°	54.6° 54.6°	47.0° 47.0°	40.9° 40.9°	35.8° 35.8°	31.6° 31.6°	27.9° 27.9°	24.4° 24.4°	21.0° 21.0°			19.1° 19.1° 67' 8"	
-20	SW							49.3° 49.3°	43.0° 43.0°	37.7° 37.7°	33.1° 33.1°	29.0° 29.0°	25.3° 25.3°							22.4° 22.4° 59' 1"	

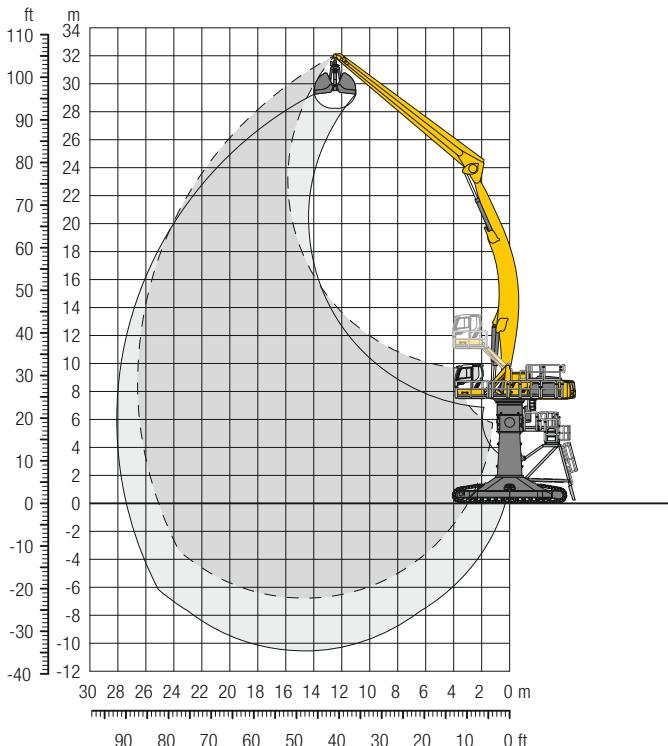
Height Can be slewed through 360° In longitudinal position of undercarriage

Max. reach * Limited by hydr. capacity

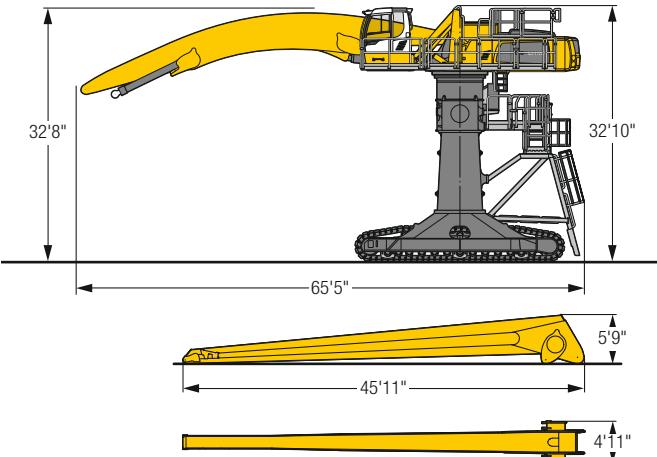
The lift capacities on the stick end without attachment are stated in lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 39" wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. 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.

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 47°, straight stick 44°3' and clamshell grab GMZ 120 / 5.88 yd³.

Weight	316,600 lb
Pad width	30"
Ground pressure	on request

Height	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	ft in
Undercarriage	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	ft in
105 Gantry																19.5* 19.5* 47' 8"
100 Gantry																18.0* 18.0* 54' 8"
95 Gantry																17.0* 17.0* 60' 5"
90 Gantry																16.3* 16.3* 65' 4"
85 Gantry																15.7* 15.7* 69' 5"
80 Gantry																15.3* 15.3* 73'
75 Gantry																15.1* 15.1* 76' 1"
70 Gantry																14.9* 14.9* 78' 8"
65 Gantry																14.8* 14.8* 80'11"
60 Gantry																14.8* 14.8* 82' 8"
55 Gantry																14.9* 14.9* 84' 4"
50 Gantry																15.0* 15.0* 85' 6"
45 Gantry																15.2* 15.2* 86' 4"
40 Gantry																15.5* 15.5* 86'11"
35 Gantry	40.0* 40.0*	34.8* 34.8*	30.8* 30.8*	27.6* 27.6*	25.1* 25.1*	23.1* 23.1*	21.4* 21.4*	19.9* 19.9*	18.7* 18.7*	17.6* 17.6*	16.7* 16.7*	16.1* 16.1*				15.6* 15.6* 87' 2"
30 Gantry	64.9* 64.9*	51.5* 51.5*	42.8* 42.8*	36.8* 36.8*	32.2* 32.2*	28.8* 28.8*	26.0* 26.0*	23.8* 23.8*	21.9* 21.9*	20.3* 20.3*	19.0* 19.0*	17.9* 17.9*	16.9* 16.9*	16.0* 16.0*		15.8* 15.8* 84' 4"
25 Gantry	71.6* 71.6*	55.7* 55.7*	45.7* 45.7*	38.7* 38.7*	33.7* 33.7*	29.9* 29.9*	26.9* 26.9*	24.4* 24.4*	22.5* 22.5*	20.8* 20.8*	19.4* 19.4*	18.2* 18.2*	17.1* 17.1*	16.1* 16.1*		15.6* 15.6* 87' 2"
20 Gantry	35.8* 35.8*	59.4* 59.4*	48.3* 48.3*	40.6* 40.6*	35.1* 35.1*	31.0* 31.0*	27.7* 27.7*	25.1* 25.1*	23.0* 23.0*	21.2* 21.2*	19.7* 19.7*	18.4* 18.4*	17.2* 17.2*	16.1* 16.1*		15.7* 15.7* 86'11"
15 Gantry	25.0* 25.0*	46.0* 46.0*	50.5* 50.5*	42.3* 42.3*	36.4* 36.4*	32.0* 32.0*	28.5* 28.5*	25.8* 25.8*	23.5* 23.5*	21.6* 21.6*	20.0* 20.0*	18.6* 18.6*	17.3* 17.3*	16.1* 16.1*		15.8* 15.8* 86' 4"
10 Gantry	22.2* 22.2*	35.5* 35.5*	52.2* 52.2*	43.7* 43.7*	37.5* 37.5*	32.9* 32.9*	29.3* 29.3*	26.3* 26.3*	24.0* 24.0*	22.0* 22.0*	20.3* 20.3*	18.8* 18.8*	17.4* 17.4*	15.9* 15.9*		15.8* 15.8* 85' 5"
5 Gantry	21.8* 21.8*	31.8* 31.8*	49.4* 49.4*	44.7* 44.7*	38.4* 38.4*	33.6* 33.6*	29.8* 29.8*	26.8* 26.8*	24.3* 24.3*	22.2* 22.2*	20.4* 20.4*	18.8* 18.8*	17.2* 17.2*			15.8* 15.8* 84' 4"
0 Gantry	22.4* 22.4*	30.6* 30.6*	44.2* 44.2*	45.2* 45.2*	38.9* 38.9*	34.0* 34.0*	30.2* 30.2*	27.0* 27.0*	24.5* 24.5*	22.3* 22.3*	20.4* 20.4*	18.6* 18.6*	16.9* 16.9*			15.8* 15.8* 82' 8"
-5 Gantry	23.5* 23.5*	30.6* 30.6*	42.0* 42.0*	45.1* 45.1*	38.9* 38.9*	34.1* 34.1*	30.2* 30.2*	27.0* 27.0*	24.4* 24.4*	22.1* 22.1*	20.1* 20.1*	18.2* 18.2*	16.1* 16.1*			15.7* 15.7* 80'11"
-10 Gantry	24.7* 24.7*	31.2* 31.2*	41.4* 41.4*	44.4* 44.4*	38.4* 38.4*	33.7* 33.7*	29.9* 29.9*	26.7* 26.7*	24.0* 24.0*	21.7* 21.7*	19.5* 19.5*	17.3* 17.3*				15.5* 15.5* 78' 7"
-15 Gantry		32.2* 32.2*	41.8* 41.8*	42.8* 42.8*	37.2* 37.2*	32.8* 32.8*	29.1* 29.1*	25.9* 25.9*	23.2* 23.2*	20.7* 20.7*	18.4* 18.4*					16.3* 16.3* 74' 1"
-20 Gantry							40.2* 40.2*	35.2* 35.2*	31.1* 31.1*	27.6* 27.6*	24.5* 24.5*	21.8* 21.8*	19.1* 19.1*			19.1* 19.1* 65' 2"



Height



Can be slewed through 360°



In longitudinal position of undercarriage



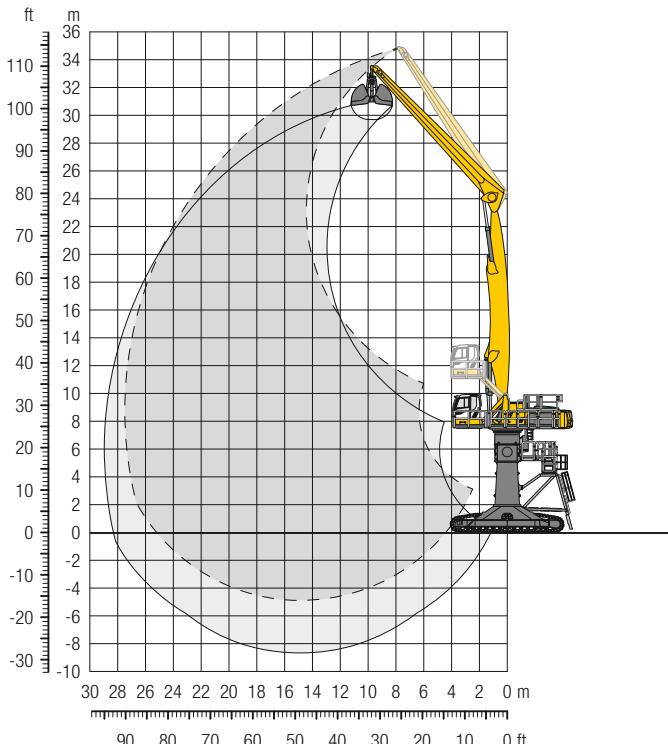
Max. reach

* Limited by hydr. capacity

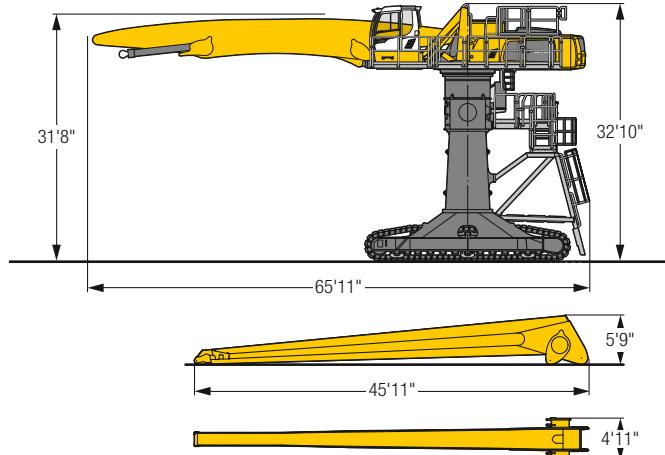
The lift capacities on the stick end without attachment are stated in lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 30" wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. 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.

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 47°, straight stick 44°3' and clamshell grab GMZ 120 / 5.88 yd³.

Weight	316,000 lb
Pad width	30"
Ground pressure	on request

Height	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	ft in				
Undercarriage	20ft	25ft	30ft	35ft	40ft	45ft	50ft	55ft	60ft	65ft	70ft	75ft	80ft	85ft	90ft	27.7' 27.7' 34' 10"				
110 Gantry																23.2' 23.2' 45' 1"				
105 Gantry					28.6° 28.6°	23.3° 23.3°										20.7' 20.7' 52' 11"				
100 Gantry					31.6° 31.6°	28.5° 28.5°	24.2° 24.2°									19.0' 19.0' 59' 4"				
95 Gantry					30.0° 30.0°	27.6° 27.6°	24.1° 24.1°									17.9' 17.9' 64' 7"				
90 Gantry					29.4° 29.4°	27.1° 27.1°	25.2° 25.2°	23.5° 23.5°								17.0' 17.0' 69' 1"				
85 Gantry						26.7° 26.7°	24.8° 24.8°	23.3° 23.3°	21.9° 21.9°						16.3' 16.3' 73' 1"					
80 Gantry						26.5° 26.5°	24.6° 24.6°	23.0° 23.0°	21.7° 21.7°	20.5° 20.5°					15.8' 15.8' 76' 6"					
75 Gantry						26.4° 26.4°	24.5° 24.5°	22.9° 22.9°	21.5° 21.5°	20.3° 20.3°	18.3° 18.3°				15.5' 15.5' 79' 5"					
70 Gantry						26.4° 26.4°	24.5° 24.5°	22.9° 22.9°	21.5° 21.5°	20.2° 20.2°	19.1° 19.1°				15.2' 15.2' 81' 11"					
65 Gantry						26.6° 26.6°	24.6° 24.6°	23.0° 23.0°	21.5° 21.5°	20.2° 20.2°	19.1° 19.1°	18.1° 18.1°			15.0' 15.0' 84' 8"					
60 Gantry						29.2° 29.2°	26.8° 26.8°	23.1° 23.1°	21.6° 21.6°	20.3° 20.3°	19.1° 19.1°	18.0° 18.0°			14.9' 14.9' 85' 10"					
55 Gantry						29.6° 29.6°	27.2° 27.2°	25.1° 25.1°	23.3° 23.3°	21.7° 21.7°	20.4° 20.4°	19.1° 19.1°	18.0° 18.0°	16.6° 16.6°	14.9' 14.9' 85' 10"					
50 Gantry						33.4° 33.4°	30.2° 30.2°	27.6° 27.6°	25.4° 25.4°	23.5° 23.5°	21.9° 21.9°	20.5° 20.5°	19.2° 19.2°	18.0° 18.0°	16.9° 16.9°	14.8' 14.8' 87' 4"				
45 Gantry						34.3° 34.3°	30.9° 30.9°	28.1° 28.1°	25.8° 25.8°	23.8° 23.8°	22.1° 22.1°	20.6° 20.6°	19.3° 19.3°	18.1° 18.1°	16.9° 16.9°	14.9' 14.9' 88' 5"				
40 Gantry						39.9° 39.9°	35.4° 35.4°	31.7° 31.7°	28.7° 28.7°	26.3° 26.3°	24.2° 24.2°	22.4° 22.4°	20.8° 20.8°	19.4° 19.4°	18.1° 18.1°	16.8° 16.8°	14.9' 14.9' 89' 4"			
35 Gantry						41.5° 41.5°	48.2° 48.2°	41.5° 41.5°	36.5° 36.5°	32.5° 32.5°	29.3° 29.3°	26.7° 26.7°	24.5° 24.5°	22.6° 22.6°	21.0° 21.0°	19.5° 19.5°	18.1° 18.1°	16.8° 16.8°	15.1' 15.1' 89' 11"	
30 Gantry						61.0° 61.0°	50.5° 50.5°	43.1° 43.1°	37.6° 37.6°	33.3° 33.3°	29.9° 29.9°	27.2° 27.2°	24.8° 24.8°	22.8° 22.8°	21.1° 21.1°	19.6° 19.6°	18.1° 18.1°	16.6° 16.6°	14.8' 14.8' 90' 1"	
25 Gantry						64.2° 64.2°	52.6° 52.6°	44.5° 44.5°	38.6° 38.6°	34.1° 34.1°	30.5° 30.5°	27.6° 27.6°	25.1° 25.1°	23.0° 23.0°	21.2° 21.2°	19.6° 19.6°	18.0° 18.0°	16.4° 16.4°	14.4' 14.4' 90' 1"	
20 Gantry						71.1° 71.1°	61.1° 61.1°	54.3° 54.3°	45.8° 45.8°	39.5° 39.5°	34.7° 34.7°	31.0° 31.0°	27.9° 27.9°	25.3° 25.3°	23.2° 23.2°	21.2° 21.2°	19.5° 19.5°	17.8° 17.8°	16.1° 16.1°	13.8' 13.8' 89' 10"
15 Gantry						15.6° 15.6°	33.3° 33.3°	55.4° 55.4°	46.6° 46.6°	40.1° 40.1°	35.2° 35.2°	31.3° 31.3°	28.1° 28.1°	25.4° 25.4°	23.2° 23.2°	21.2° 21.2°	19.3° 19.3°	17.5° 17.5°	15.6° 15.6°	13.3' 13.3' 89' 4"
10 Gantry						15.0° 15.0°	26.8° 26.8°	50.5° 50.5°	46.9° 46.9°	40.4° 40.4°	35.4° 35.4°	31.4° 31.4°	28.1° 28.1°	25.4° 25.4°	23.0° 23.0°	20.9° 20.9°	18.9° 18.9°	17.0° 17.0°	14.8° 14.8°	12.6' 12.6' 88' 5"
5 Gantry						16.1° 16.1°	25.3° 25.3°	41.8° 41.8°	46.6° 46.6°	40.2° 40.2°	35.2° 35.2°	31.2° 31.2°	27.9° 27.9°	25.1° 25.1°	22.6° 22.6°	20.4° 20.4°	18.3° 18.3°	16.2° 16.2°	13.5° 13.5°	12.0' 12.0' 87'
0 Gantry						17.8° 17.8°	25.6° 25.6°	38.7° 38.7°	45.5° 45.5°	39.4° 39.4°	34.5° 34.5°	30.6° 30.6°	27.3° 27.3°	24.5° 24.5°	22.0° 22.0°	19.7° 19.7°	17.4° 17.4°	14.9° 14.9°	12.6' 12.6' 83' 8"	
-5 Gantry						19.8° 19.8°	26.8° 26.8°	38.1° 38.1°	43.4° 43.4°	37.9° 37.9°	33.3° 33.3°	29.5° 29.5°	26.3° 26.3°	23.4° 23.4°	20.9° 20.9°	18.4° 18.4°	15.9° 15.9°		13.5' 13.5' 79' 2"	
-10 Gantry						28.5° 28.5°	38.8° 38.8°	40.3° 40.3°	35.4° 35.4°	31.3° 31.3°	27.8° 27.8°	24.6° 24.6°	21.8° 21.8°	19.2° 19.2°	16.6° 16.6°			15.1' 15.1' 72' 10"		
-15 Gantry						36.0° 36.0°	32.0° 32.0°	28.4° 28.4°	25.2° 25.2°	22.3° 22.3°	19.5° 19.5°							18.2' 18.2' 62' 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 lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 30" 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.

Liebherr ERC-System

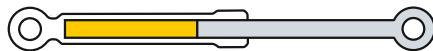
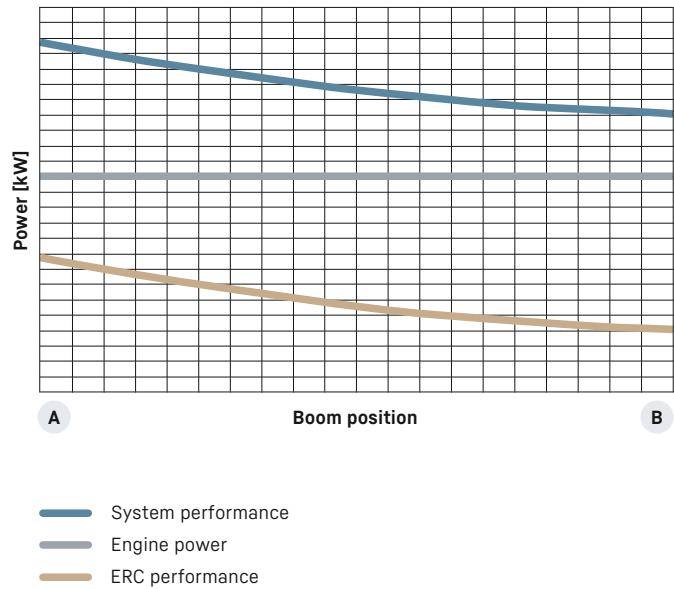
More performance, less consumption

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



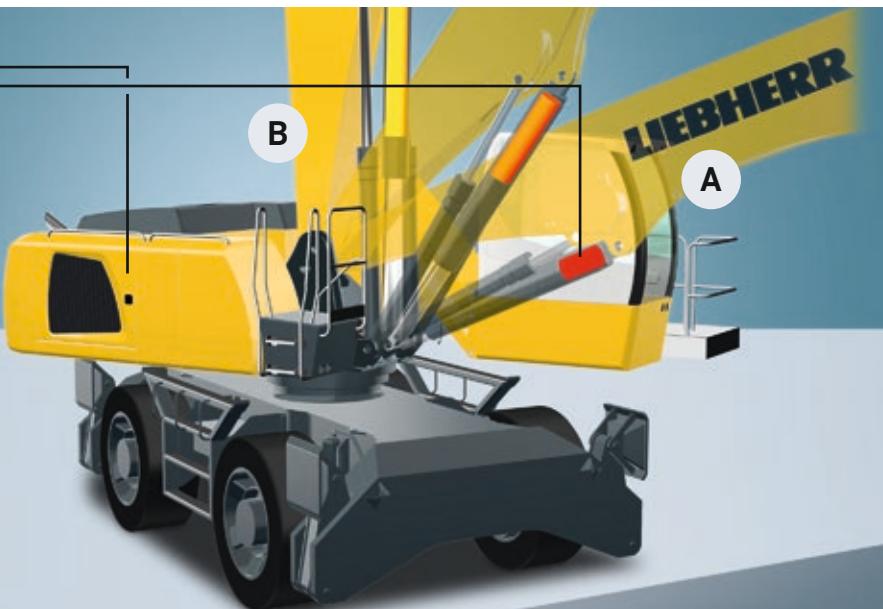
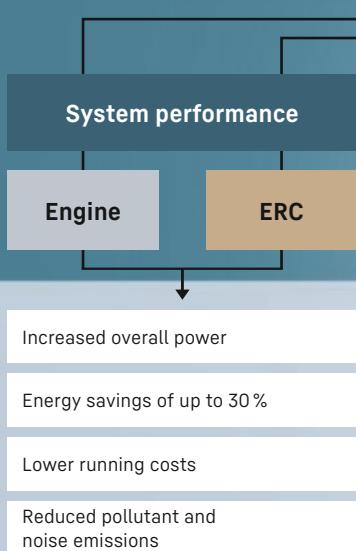
- B 1. Equipment fitting raised /
energy released



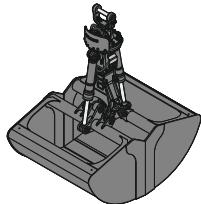
2. Lower equipment fitting / store energy
4. Raise equipment fitting / release energy



- A 3. Equipment fitting lowered /
energy stored



Attachments



Clamshell grab

Grab model GMZ 50 (Shells for loose material)

Shell width	ft in	4'7"	5'3"	5'11"	
Capacity ¹⁾	yd ³	4.58	5.23	5.88	
Weight ²⁾	lb	5,765	6,063	6,228	

Grab model GMZ 80 (Clamshell buckets)

Shell width	ft in	3'11"	4'7"	5'5"	6'7"	
Capacity ¹⁾	yd ³	1.83	2.22	2.62	3.27	
Weight ^{2),3)}	lb	4,784	5,016	5,324	5,721	

Grab model GMZ 80 (Shells for loose material)

Shell specification	Standard						Wide				Wide			
Shell width	ft in	4'3"	4'11"	5'9"	6'7"	7'3"	8'6"	9'10"	4'3"	4'11"	5'9"	6'7"	7'3"	
Capacity ¹⁾	yd ³	3.92	4.58	5.23	5.88	6.54	7.85	9.15	2.62	3.01	3.53	3.92	4.45	
Weight ²⁾	lb	5,534	5,787	6,118	6,437	7,176	7,694	8,201	5,093	5,291	5,589	5,886	6,382	

Grab model GMZ 120 (Clamshell buckets)

Shell width	ft in	6'7"	
Capacity ¹⁾	yd ³	4.18	
Weight ^{2),3)}	lb	7,077	

Grab model GMZ 120 (Shells for loose material)

Shell width	ft in	5'3"	5'11"	6'7"	7'3"	7'10"	9'2"	10'6"	
Capacity ¹⁾	yd ³	5.23	5.88	6.54	7.19	7.85	9.15	10.46	
Weight ²⁾	lb	6,625	6,923	7,231	8,003	8,322	8,907	9,546	

Grab model GMZ 120 (Shells for light material)

Shell width	ft in	7'10"	9'2"	
Capacity ¹⁾	yd ³	13.08	15.69	
Weight ²⁾	lb	9,513	10,196	



Multi-tine grab

open

semi-closed

closed, heart-shaped

Grab model GMM 80-4 (4 tines)

Capacity	yd ³	1.44	1.83	2.22		1.44	1.83	2.22		1.83	2.22
Weight ²⁾	lb	4,189	4,277	4,409		4,619	4,740	4,872		5,302	5,644

Grab model GMM 120-4 (4 tines)

Capacity	yd ³	2.22	2.62	3.27	3.92	2.22	2.62	3.27	3.92	
Weight ²⁾	lb	4,751	4,850	4,971	5,082	5,269	5,390	5,589	5,787	

Grab model GMM 80-5 (5 tines)

Capacity	yd ³	1.44	1.83	2.22		1.18	1.44	1.83	2.22	1.18	1.44	1.83	2.22
Weight ²⁾	lb	4,784	4,894	5,049		4,993	5,269	5,434	5,589	5,236	5,379	5,688	6,019

Grab model GMM 120-5 (5 tines)

Capacity	yd ³	2.22	2.62	3.27	3.92	2.22	2.62	3.27	3.92	2.22	2.62	3.27	3.92
Weight ²⁾	lb	5,478	5,600	5,754	5,886	6,085	6,239	6,471	6,724	6,548	6,856	7,198	8,091

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	yd ²	2.63	2.99	2.99	3.35	3.83	4.31	
Cutting width	ft in	3'3"	2'10"	3'3"	3'3"	3'3"	3'3"	
Height of grab, closed	ft in	7'7"	7'11"	7'11"	8'3"	8'8"	9'3"	
Weight ¹⁾	lb	4,575	4,475	4,663	4,828	4,938	5,049	

Grab model GMH 50 (Tong combi-shaped, tip-to-tip closing)

Size	yd ²	2.99	3.83	3.83	4.31	4.31	4.54 ²⁾	4.54 ²⁾
Cutting width	ft in	2'10"	2'10"	3'3"	2'10"	3'3"	2'10"	3'3"
Height of grab, closed	ft in	8'4"	9'1"	9'1"	9'5"	9'5"	9'7"	9'9"
Weight ¹⁾	lb	4,839	5,104	5,302	5,236	5,445	5,236	5,412

Grab model GMH 50 (Tong heart-shaped, tip-to-tip closing, straight design)

Size	yd ²	2.39	2.39	2.63 ³⁾	2.63	2.99	3.35	3.83	4.31
Cutting width	ft in	2'10"	3'3"	2'10"	3'3"	3'3"	3'3"	2'10"	
Height of grab, closed	ft in	8'3"	8'3"	8'7"	8'7"	9'	9'4"	9'10"	10'2"
Weight ¹⁾	lb	4,475	4,652	4,740	4,751	4,927	5,038	5,170	5,126

Grab model GMH 80 (Tong round overlapping)

Size	yd ²	1.55	1.91	2.27	2.63	2.99		
Cutting width	ft in	2'10"	2'10"	2'10"	2'10"	2'10"		
Height of grab, closed	ft in	9'2"	9'6"	9'9"	10'1"	10'4"		
Weight ¹⁾	lb	4,663	4,762	4,850	4,916	5,004		

Grab model GMH 100 (Tong combi-shaped, tip-to-tip closing)

Size	yd ²	4.07	4.43	4.78				
Cutting width	ft in	3'7"	3'7"	3'7"				
Height of grab, closed	ft in	9'10"	10'3"	10'8"				
Weight ¹⁾	lb	5,798	5,975	6,063				

Grab model GMH 100 (Tong heart-shaped, tip-to-tip closing, straight design)

Size	yd ²	4.43						
Cutting width	ft in	2'9"						
Height of grab, closed	ft in	11'						
Weight ¹⁾	lb	5,501						

Grab model GMH 120 (Tong round overlapping)

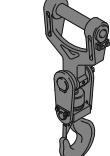
Size	yd ²	3.35	3.83	4.31				
Cutting width	ft in	2'10"	2'10"	2'10"				
Height of grab, closed	ft in	11'9"	12'1"	12'4"				
Weight ¹⁾	lb	6,008	6,063	6,151				

Grab model GMH 120 (Tong straight design, overlapping, two over one grab)

Size	yd ²	1.67						
Cutting width	ft in	2'10"						
Height of grab, closed	ft in	9'8"						
Weight ¹⁾	lb	5,622						

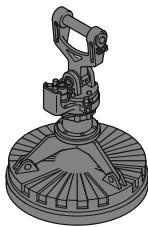
Load hook

Max. load	lb	55,116
Weight	lb	562



Magnet devices / lifting magnets

Generator	kW	30	30
Electromagnet with suspension			
Power	kW	17.8	22
Diameter of magnet	ft in	5'7"	6'3"
Weight	lb	7,230 ⁴⁾	11,220 ⁴⁾



¹⁾ weights with XHD suspension

²⁾ tongs especially for truck unloading

³⁾ closed back sheet

⁴⁾ only magnet plate

Equipment

Undercarriage

Track pads, variants	
Individual control outriggers	
Three-piece chain guide	
Shuttle axle lock, automatic	
Outrigger monitoring system	
Tires, variants	
Trailing cable ²⁾	
Protection for piston rods, outriggers	
Two storage compartments	
Cable reel system ²⁾	

	110 M	110 C	110 M HR	110 C HR	110 C Gantry
	+	+	●	+	+
	●	●	●	●	●
	+	+	+	+	+
	+	+	+	●	●
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	+	+	+	+	+

Hydraulic system

Electronic pump regulation	●	●	●	●	●
Liebherr hydraulic oil from -4 °F to +104 °F	●	●	●	●	●
Liebherr hydraulic oil, biologically degradable	+	+	+	+	+
Liebherr hydraulic oil, specially for warm or cold regions	+	+	+	+	+
Magnetic rod in hydraulic tank	●	●	●	●	●
Bypass filter	+	+	+	+	+
Preheating hydraulic oil	+	+	+	+	+

	110 M	110 C	110 M HR	110 C HR	110 C Gantry
	●	●	●	●	●
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	+	+	+	+	+

Uppercarriage

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	

	110 M	110 C	110 M HR	110 C HR	110 C Gantry
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	●	●	●	●	●
	+	+	+	+	+
	●	●	●	●	●
	●	●	●	●	●
	+	+	+	+	+

Engine

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)*1)}	+

	110 M	110 C	110 M HR	110 C HR	110 C Gantry
	+	+	+	+	+
	+	+	+	+	+
	+	+	+	+	+
	+	+	+	+	+
	+	+	+	+	+
	+	+	+	+	+
	+	+	+	+	+
	●	●	●	●	●
	+	+	+	+	+

Cooling system

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, personalized (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 windshield	●	●	●	●	●
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 - centralized (one grease point)	●				
Central lubrication system for uppercarriage and equipment, automatically	●	●	●	●	●
Central lubrication system for undercarriage, automatically	+	+	+	+	+
Centralized lubrication extended for attachment	+	+	+	+	+
Special coating					
Special coating, variants	+	+	+	+	+
Monitoring					
Rear view monitoring with camera	●	●	●	●	●
Side view monitoring with camera	●	●	●	●	●

WARNING

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.

WARNING

This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65warnings.ca.gov.

● = 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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