

Product Information Crawler Excavator

R 918

Litronic®

Generation

6

Engine

161 HP / 120 kW

Tier 4 Final

Operating Weight

21,650 kg / 47,730 lb

Bucket Capacity

0.55 – 1.15 m³ / 0.72 – 1.50 yd³



LIEBHERR

Experience the Progress

R 918

Equipment

- Longer lifespan of components and higher productivity thanks to automatic centralised lubrication system
- Safety check valves for hoist and stick cylinders

Comfort

- Spacious, air-conditioned work space
- Airsprung seat with vertical and horizontal suspension
- Easy-to-use high resolution 7" colour touchscreen
- 3" orange seat belt

Undercarriage

- Robust X-frame undercarriage, easy to secure thanks to its integrated eyelets
- Easy maintenance
- Several combinations of undercarriage and blades/ support blades available
- Extra storage as an option
- Maintenance-free travel gear and track rollers with lifetime lubrication





Safety

- Panoramic visibility with no obstructions and camera on the rear and the right side equipment for enhanced safety
- Liftable console for easy and safe access to cab
- ROPS-certified cab structure: rollover protection
- Emergency exit via the rear cab window
- Right window and windshield in laminated and tinted glass

Engine

- US EPA Tier 4 Final engine with SCR system and diesel oxidation catalyst
- Automatic idle-stop

Maintenance

- Servicing concept, with service points accessible from ground level
- Engine oil level and filling nozzle accessible from ground level
- Standard shut-off valve on hydraulic tank outlet

Technical Data



Engine

Rating	
per SAE J1349	161 HP (120 kW) at 1,800 rpm
per ISO 9249	163 HP (120 kW) at 1,800 rpm
Torque	682 Nm at 1,400 rpm / 503 lbf ft at 1,400 rpm
Model	D924 A7-04 – FPT motor designed for Liebherr
Type	4 cylinder in-line
Bore	104 mm / 4.1 in
Stroke	132 mm / 5.2 in
Displacement	4.5 l / 275 in³
Engine operation	4-stroke diesel Common-Rail Turbo-charged and after-cooler
Exhaust gas treatment	Tier 4 Final DOC + SCR Passive regeneration by thermo management Particle filter
Option	
Cooling system	Water-cooled and integrated motor oil cooler
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	368 l / 97 gal
Urea tank	46 l / 12 gal
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah/ 12 V
Alternator	Three-phase current 28 V/ 140 A
Engine idling	Sensor controlled



Hydraulic Controls

Power distribution	Via control valves with integrated safety valves, simultaneous and independent actuation of undercarriage, swing drive and equipment
Servo circuit	
Equipment and swing	Proportional via joystick levers
Travel	– Proportional control via foot pedals or removable levers – Speed pre-selection
Additional functions	Proportional regulation via foot pedals or mini-joystick



Hydraulic System

Hydraulic pump	Liebherr, variable displacement, swashplate pump
Max. flow	390 l/min. / 2 x 103 gpm
Max. pressure	350 bar / 5,076 psi
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority
Hydraulic tank	170 l / 45 gal
Hydraulic system	max. 350 l / max. 93 gal
Hydraulic oil filter	1 main return filter with integrated partial micro filtration (5 µm / 2,500 mesh)
Cooling system	Compact cooling system comprising cooling unit for water, hydraulic oil and charge air with stepless, thermo-statically controlled fan
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 digging performance and heavy-duty jobs
Engine speed and performance setting	Stepless adjustment of engine output and hydraulic power via engine speed



Swing Drive

Drive	Liebherr swashplate motor with integrated brake valve and torque control
Transmission	Liebherr compact planetary reduction gears
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0 – 10.0 rpm stepless
Swing torque	51 kNm / 37,616 lbf ft
Holding brake	Wet multi-disc (spring applied, pressure released)



Operator's Cab

Cab	ROPS safety cab structure (roll-over protection system according to ISO 12117-2:2008) with windscreen, totally or partially retractable (only upper part), under cab roof, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, laminated right hand side and roof windows, all windows tinted, separate extensible window shades for the sunroof window and windscreen, cigarette lighter and 24 V plug, 12 V plug, cup holder
Operator's seat	Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination (adjustable in width, height and inclination), seat heating as standard
Arm consoles	Oscillating consoles with seat, tiltable console left
Operation and displays	Large high-resolution operating unit, intuitive, color display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters
Air-conditioning	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
Noise emission	
ISO 6396	L_{pA} (inside cab) = 71 dB(A)
2000/14/EC	L_{WA} (surround noise) = 103 dB(A)



Undercarriage

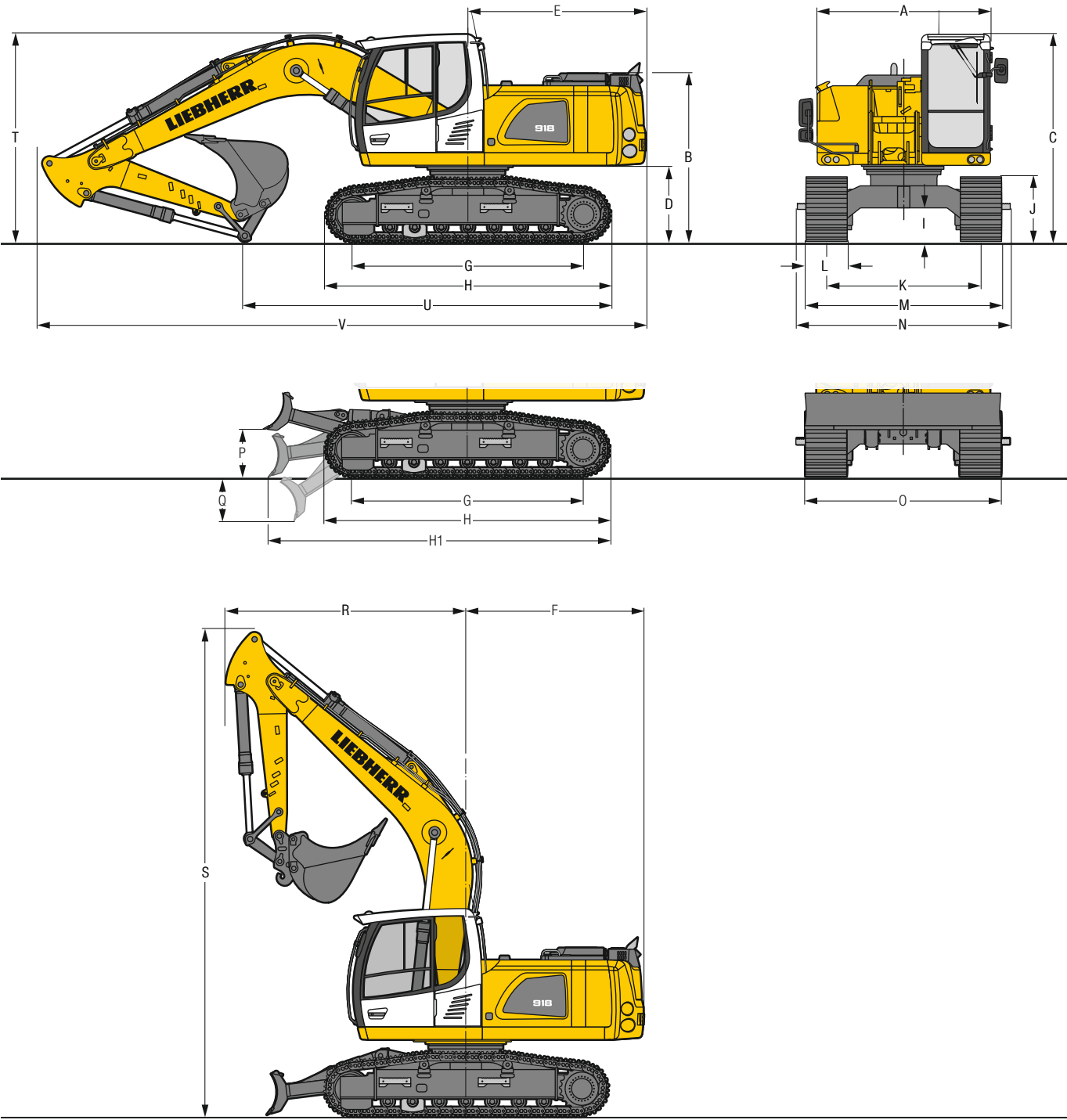
LC	Gauge 2,250 mm / 7'5"
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr compact planetary reduction gear
Maximum travel speed	Low range 3.2 km/h / 2.0 mph High range 6.0 km/h / 3.7 mph
Drawbar pull on crawler	192 kN / 43,163 lbf
Track components	B60, maintenance-free
Track rollers/Carrier rollers	7 / 2
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)
Brake valves	Integrated into travel motor
Lashing eyes	Integrated



Equipment

Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Liebherr central lubrication system

Dimensions



	LC	mm/ft in		LC with blade	mm/ft in	
A	Uppercarriage width	2,525 / 8' 3"			2,525 / 8' 3"	
B	Uppercarriage height	2,455 / 8' 1"			2,455 / 8' 1"	
C	Cab height	3,030 / 9'11"			3,030 / 9'11"	
D	Counterweight ground clearance	1,100 / 3' 7"			1,100 / 3' 7"	
E	Rear-end length	2,580 / 8' 6"			2,580 / 8' 6"	
F	Tail swing radius	2,580 / 8' 6"			2,580 / 8' 6"	
G	Wheelbase	3,370 / 11' 1"			3,370 / 11' 1"	
H	Undercarriage length	4,150 / 13' 7"			4,150 / 13' 7"	
H1	Undercarriage length with blade	–			4,965 / 16' 3"	
I	Undercarriage ground clearance	490 / 1' 7"			490 / 1' 7"	
J	Track height	955 / 3' 2"			955 / 3' 2"	
K	Track gauge	2,250 / 7' 5"			2,250 / 7' 5"	
L	Track pad width	600 / 24"	750 / 30"	900 / 35"	600 / 24"	750 / 30"
M	Width over tracks	2,850 / 9' 4"	3,000 / 9'10"	3,150 / 10' 4"	2,850 / 9' 4"	3,000 / 9'10"
N	Width over steps	2,800 / 9' 2"	3,000* / 9'10" **	3,100* / 10' 2" **	2,800 / 9' 2"	3,000* / 9'10" **
O	Blade width	–			2,850 / 9' 4"	
P	Max. blade height	–			685 / 2' 3"	
Q	Max. blade depth	–			635 / 2' 1"	

* width with removable steps

		Stick length m/ft in	Mono boom 5.20 m/17'1" direct mounting mm/ft in
R	Front swing radius	2.25 / 7'5"	3,550 / 11'8"
		2.65 / 8'8"	3,550 / 11'8"
		3.05 / 10'	3,550 / 11'8"
S	Height with boom up		7,100 / 23'4"
T	Boom height	2.25 / 7'5"	3,050 / 10'
		2.65 / 8'8"	3,150 / 10'4"
		3.05 / 10'	2,950 / 9'8"
U	Length on ground	2.25 / 7'5"	5,350 / 17'7"
		2.65 / 8'8"	5,050 / 16'7"
		3.05 / 10'	6,750 / 22'2"
V	Overall length	2.25 / 7'5"	8,900 / 29'2"
		2.65 / 8'8"	8,900 / 29'2"
		3.05 / 10'	8,900 / 29'2"
	Bucket		1.00 m³ / 1.31 yd³

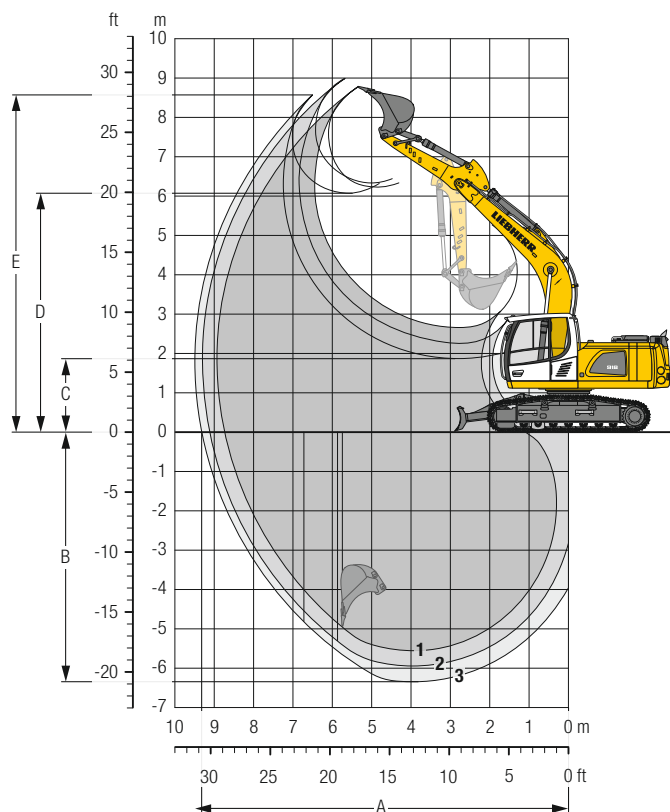
Transport Dimensions

removable elements disassembled

	Stick m/ft in	Mono boom 5.20 m/17'1" mm/ft in		
Pad width		600 / 24"	750 / 30"	900 / 35"
Transport width		2,850 / 9' 4"	3,000 / 9'10"	3,150 / 10' 4"
Transport length	2.25 / 7'5"	8,900 / 29' 2"		
	2.65 / 8'8"	8,900 / 29' 2"		
	3.05 / 10'	8,900 / 29' 2"		
Transport height	2.25 / 7'5"	3,050 / 10'		
	2.65 / 8'8"	3,150 / 10' 4"		
	3.05 / 10'	3,030 / 9'11"		
Bucket		1.00 m³ / 1.31 yd³		

Backhoe Bucket

with Mono Boom 5.20 m/17'1" and Counterweight 3.1 t/6,830 lb



Digging Envelope

without quick coupler	1	2	3
Stick length	m/ft in 2.25/ 7' 5"	2.65/ 8' 8"	3.05/10'
A Max. reach at ground level	m/ft in 8.75/28' 8"	9.13/29'11"	9.32/30' 3"
B Max. digging depth	m/ft in 5.55/18' 3"	5.95/19' 6"	6.35/20'10"
C Min. dumping height	m/ft in 2.67/ 8' 9"	2.27/ 7' 5"	1.87/ 6' 2"
D Max. dumping height	m/ft in 6.12/20' 1"	6.33/20' 9"	6.07/19'11"
E Max. cutting height	m/ft in 8.78/28'10"	8.99/29' 6"	8.57/28' 1"

Forces

without quick coupler	1	2	3
Stick digging force (ISO 6015)	kN/lbf 94/21,130	84/18,880	76/17,090
Bucket digging force (ISO 6015)	kN/lbf 135/30,350	135/30,350	135/30,350
Stick digging force (SAE J1179)	kN/lbf 89/20,010	80/17,990	73/16,410
Bucket digging force (SAE J1179)	kN/lbf 118/26,530	118/26,530	118/26,530

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 3.1 t/6,830 lb, mono boom 5.20 m/17'1", stick 3.05 m/10' and bucket 1.00 m³/1.31 yd³ (685 kg/1,510 lb).

Undercarriage	LC		
Pad width	mm/in 600/24"	750/30"	900/35"
Weight	kg/lb 19,650/43,320	20,050/44,200	20,450/45,090
Ground pressure	kg/cm²/psi 0.45/6.4	0.37/5.3	0.31/4.4

Undercarriage	LC with blade		
Pad width	mm/in 600/24"	750/30"	900/35"
Weight	kg/lb 21,250/46,850	21,650/47,730	
Ground pressure	kg/cm²/psi 0.49/7.0	0.40/5.7	

Buckets Machine stability per ISO 10567* (75 % of tipping capacity)

	Cutting width mm in	Capacity ISO 7451 m³ yd³	Weight ²⁾ kg lb	Weight ⁴⁾ kg lb	LC-Undercarriage (with track pads 750 mm/30")						LC-Undercarriage with blade (with track pads 750 mm/30")					
					Stick length (m/ft in)						Stick length (m/ft in)					
					without quick coupler			with quick coupler			without quick coupler			with quick coupler		
					2.25 7'5"	2.65 8'8"	3.05 10'	2.25 7'5"	2.65 8'8"	3.05 10'	2.25 7'5"	2.65 8'8"	3.05 10'	2.25 7'5"	2.65 8'8"	3.05 10'
STD ¹⁾	650 26"	0.55 0.72	480 1,060	515 1,140	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850 34"	0.60 0.78	520 1,150	550 1,210	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050 41"	0.80 1.05	600 1,320	635 1,400	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250 49"	1.00 1.31	685 1,510	715 1,580	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400 55"	1.15 1.50	755 1,660	785 1,730	▲	■	■	▲	▲	▲	▲	▲	▲	▲	■	■
HD ²⁾	650 26"	0.55 0.72	545 1,200	575 1,270	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850 34"	0.60 0.78	585 1,290	615 1,360	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050 41"	0.80 1.05	675 1,490	705 1,550	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250 49"	1.00 1.31	770 1,700	800 1,760	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲
	1,400 55"	1.15 1.50	850 1,870	880 1,940	▲	■	▲	■	▲	▲	▲	▲	■	▲	■	■

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground

¹⁾ Standard bucket with teeth Z 35

²⁾ HD bucket with teeth Uni Z 35

³⁾ Bucket for direct mounting

⁴⁾ Bucket for mounting to quick coupler

Other buckets available upon request

Max. material weight ▲ = ≤ 2.0 t/m³/3,400 lb/yd³, ■ = ≤ 1.8 t/m³/3,000 lb/yd³, ▲ = ≤ 1.65 t/m³/2,800 lb/yd³, ■ = ≤ 1.5 t/m³/2,500 lb/yd³, △ = ≤ 1.2 t/m³/2,000 lb/yd³

Lift Capacities

with Mono Boom 5.20 m/17'1", Counterweight 3.1 t/6,830 lb and Track Pads 750 mm/30"

Stick 2.25 m/7'5"

Under-carriage	Height	3.0 m 10 ft	4.5 m 15 ft	6.0 m 20 ft	7.5 m 25 ft	m		
						ft	in	
LC	7.5 m t					4.2*	4.2*	4.7
	25 ft lb					9.5*	9.5*	15'
	6.0 m t			4.2	4.7*	3.7*	3.7*	6.2
	20 ft lb			8.2*	8.2*	8.2*	8.2*	20'
	4.5 m t		6.4	6.9*	4.1	6.0*	3.2	3.5*
	15 ft lb		13.9	15.0*	8.9	13.1*	7.2	7.8*
	3.0 m t		6.0	8.5*	4.0	5.9	2.9	3.6*
	10 ft lb		13.0	18.2*	8.5	12.7	6.4	7.9*
	1.5 m t		5.6	8.9	3.8	5.7	2.8	4.0*
	5 ft lb		12.1	19.1	8.2	12.3	6.1	8.4*
	0 m t		5.4	8.6	3.7	5.6	2.8	4.2
	0 ft lb		11.7	18.6	7.9	12.0	6.2	9.3
	-1.5 m t	10.2*	10.2*	5.4	8.6	3.6	5.5	3.1
	-5 ft lb	22.0	23.3*	11.6	18.5	7.8	11.9	6.9
	-3.0 m t	10.5	10.8*	5.5	7.9*			4.0
LC Blade up	-10 ft lb	22.4	23.3*	11.9	17.1*			8.9
	-4.5 m t							
	-15 ft lb							
	7.5 m t					4.2*	4.2*	4.7
	25 ft lb					9.5*	9.5*	15'
	6.0 m t			4.5	4.7*	3.7*	3.7*	6.2
	20 ft lb			8.2*	8.2*	8.2*	8.2*	20'
	4.5 m t		6.9	6.9*	4.4	6.0*	3.5	3.5*
	15 ft lb		14.9	15.0*	9.6	13.1*	7.7	7.8*
	3.0 m t		6.4	8.5*	4.3	6.0	3.1	3.6*
	10 ft lb		13.9	18.2*	9.2	12.9	6.9	7.9*
	1.5 m t		6.0	9.0	4.1	5.8	3.0	3.8*
	5 ft lb		13.1	19.4	8.8	12.5	6.6	8.4*
	0 m t		5.9	8.8	4.0	5.7	3.1	4.3*
	0 ft lb		12.6	18.9	8.6	12.2	6.7	9.4*
LC Blade down	-1.5 m t	10.2*	10.2*	5.8	8.8	3.9	5.6	3.4
	-5 ft lb	23.3*	23.3*	12.6	18.8	8.5	12.2	7.5
	-3.0 m t	10.8*	10.8*	5.9	7.9*			4.3
	-10 ft lb	23.3*	23.3*	12.8	17.1*			9.6
	-4.5 m t							
	-15 ft lb							
	7.5 m t					4.2*	4.2*	4.7
	25 ft lb					9.5*	9.5*	15'
	6.0 m t			4.7*	4.7*	3.7*	3.7*	6.2
	20 ft lb			8.2*	8.2*	8.2*	8.2*	20'
	4.5 m t		6.9*	6.9*	4.7	6.0*	3.5*	3.5*
	15 ft lb		15.0*	15.0*	10.1	13.1*	7.8*	7.8*
	3.0 m t		6.8	8.5*	4.5	6.6*	3.3	3.6*
	10 ft lb		14.8	18.2*	9.7	14.3*	7.3	7.9*
	1.5 m t		6.4	9.7*	4.3	7.2*	3.2	3.8*
	5 ft lb		13.9	21.0*	9.3	15.5*	7.0	8.4*
LC Blade up	0 m t		6.2	10.1*	4.2	7.4*	3.2	4.3*
	0 ft lb		13.4	21.9*	9.1	16.1*	7.1	9.4*
	-1.5 m t	10.2*	10.2*	6.2	9.6*	4.2	7.0*	3.6
	-5 ft lb	23.3*	23.3*	13.4	20.8*	9.0	15.2*	8.0
	-3.0 m t	10.8*	10.8*	6.3	7.9*			4.6
	-10 ft lb	23.3*	23.3*	13.6	17.1*			10.2
	-4.5 m t							
	-15 ft lb							
	7.5 m t					4.2*	4.2*	4.7
	25 ft lb					9.5*	9.5*	15'
	6.0 m t					3.7*	3.7*	6.2
	20 ft lb					8.2*	8.2*	20'
	4.5 m t					3.5*	3.5*	7.0
	15 ft lb					7.8*	7.8*	22'10"
	3.0 m t					3.3	3.6*	7.4
	10 ft lb					7.3	7.9*	24'4"
	1.5 m t					3.2	3.8*	7.5
	5 ft lb					7.0	8.4*	24'8"
	0 m t					3.2	4.3*	7.3
	0 ft lb					7.1	9.4*	23'11"
	-1.5 m t	10.2*	10.2*	6.2	9.6*	4.2	7.0*	3.6
	-5 ft lb	23.3*	23.3*	13.4	20.8*	9.0	15.2*	8.0
	-3.0 m t	10.8*	10.8*	6.3	7.9*			4.6
	-10 ft lb	23.3*	23.3*	13.6	17.1*			10.2
	-4.5 m t							
	-15 ft lb							












Stick 2.65 m/8'8"



Under-carriage	Height	3.0 m 10 ft	4.5 m 15 ft	6.0 m 20 ft	7.5 m 25 ft	m		
						ft	in	
LC	7.5 m t					3.4*	3.4*	5.3
	25 ft lb					7.6*	7.6*	17'
	6.0 m t			4.2	5.1*	3.0*	3.0*	6.6
	20 ft lb			9.1	10.4*	6.7*	6.7*	21'6"
	4.5 m t			4.1	5.6*	2.9*	2.9*	7.4
	15 ft lb			8.9	12.3*	6.4*	6.4*	24'2"
	3.0 m t		6.1	7.9*	4.0	5.9	2.6	2.9*
	10 ft lb		13.1	17.1*	8.5	12.7	6.0	9.0
	1.5 m t		5.6	8.9	3.8	5.7	2.7	4.1
	5 ft lb		12.1	19.1	8.1	12.2	5.9	8.8
	0 m t	5.4*	5.4*	5.4	8.6	5.5	2.7	4.0
	0 ft lb	12.5*	12.5*	11.6	18.5	7.8	11.9	5.8
	-1.5 m t	9.4*	9.4*	5.3	8.5	3.6	5.5	2.8
	-5 ft lb	21.4*	21.4*	11.4	18.3	7.7	11.8	6.3
	-3.0 m t	10.2	11.8*	5.4	8.4*	3.6	5.5	3.5
LC Blade up	-10 ft lb	22.0	25.5*	11.6	18.2*	7.9	12.0	7.7
	-4.5 m t							5.3*
	-15 ft lb							5.3*
	7.5 m t					3.4*	3.4*	5.3
	25 ft lb					7.6*	7.6*	17'
	6.0 m t			4.5	5.1*	3.0*	3.0*	6.6
	20 ft lb			9.8	10.4*	6.7*	6.7*	21'6"
	4.5 m t			4.5	5.6*	2.9*	2.9*	7.4
	15 ft lb			9.6	12.3*	6.4*	6.4*	24'2"
	3.0 m t		6.5	7.9*	4.3	6.0	3.0	4.2
	10 ft lb		14.0	17.1*	9.2	12.9	6.5	9.0*
	1.5 m t		6.1	9.0	4.1	5.8	3.0	4.1
	5 ft lb		13.1	19.4	8.8	12.5	6.4	8.9
	0 m t	5.4*	5.4*	5.8	8.7	3.9	5.6	2.9
	0 ft lb	12.5*	12.5*	12.5	18.8	8.4	12.1	6.2
LC Blade down	-1.5 m t	9.4*	9.4*	5.7	8.7	3.9	5.6	3.1
	-5 ft lb	21.4*	21.4*	12.4	18.6	8.3	12.0	6.8
	-3.0 m t	11.1	11.8*	5.8	8.4*	3.9	5.6	3.8
	-10 ft lb	23.7	25.5*	12.5	18.2*	8.5	12.2	8.4
	-4.5 m t							5.3*
	-15 ft lb							5.3*
	7.5 m t					3.4*	3.4*	5.3
	25 ft lb					7.6*	7.6*	17'
	6.0 m t			4.8	5.1*	3.0*	3.0*	6.6
	20 ft lb			10.3	10.4*	6.7*	6.7*	21'6"
	4.5 m t			4.7	5.6*	2.9*	2.9*	7.4
	15 ft lb			10.1	12.3*	6.4*	6.4*	24'2"
	3.0 m t		6.9	7.9*	4.5	6.3*	3.2	4.7*
	10 ft lb		14.9	17.1*	9.7	13.6*	6.9	9.0*
	1.5 m t		6.4	9.4*	4.3	6.9*	3.1	5.7*
	5 ft lb		13.9	20.3*	9.3	15.0*	6.7	11.2*
LC Blade up	0 m t	5.4*	5.4*	6.2	10.0*	4.2	7.3*	3.1
	0 ft lb	12.5*	12.5*	13.3	21.7*	9.0	15.8*	6.6
	-1.5 m t	9.4*	9.4*	6.1	9.7*	4.1	7.1*	3.3
	-5 ft lb	21.4*	21.4*	13.2	21.1*	8.8	15.4*	7.2
	-3.0 m t	11.8*	11.8*	6.2	8.4*	4.2	5.9*	4.0
	-10 ft lb	25.5*	25.5*	13.4	18.2*	9.0	12.5*	8.9
	-4.5 m t							5.3*
	-15 ft lb							5.3*
	7.5 m t					3.4*	3.4*	5.3
	25 ft lb					7.6*	7.6*	17'
	6.0 m t					3.0*	3.0*	6.6
	20 ft lb					6.7*	6.7*	21'6"
	4.5 m t					2.9*	2.9*	7.4
	15 ft lb					6.4*	6.4*	24'2"
	3.0 m t					2.9*	2.9*	7.8
	10 ft lb					6.5*	6.5*	25'7"
	1.5 m t					2.9*	3.1*	7.9
	5 ft lb					6.4	6.8*	25'11"
	0 m t					3.0	3.5*	7.7
	0 ft lb					6.5	7.6*	25'2"
	-1.5 m t	9.4*	9.4*	6.1	9.7*	4.1	7.1*	3.3
	-5 ft lb	21.4*	21.4*	13.2	21.1*	8.8	15.4*	7.2
	-3.0 m t	11.8*	11.8*	6.2	8.4*	4.2	5.9*	4.0
	-10 ft lb	25.5*	25.5*	13.4	18.2*	9.0	12.5*	8.9
	-4.5 m t							5.3*
	-15 ft lb							5.3*

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

The load values are quoted in tons (t) / lb x 1,000 at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 750 mm/30" wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 285 kg/628 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

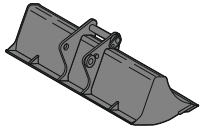
Stick 3.05 m / 10'

Under-carriage		3.0 m 10 ft		4.5 m 15 ft		6.0 m 20 ft		7.5 m 25 ft				m ft in
												
LC	7.5 m t									2.7*	2.7*	5.6
	25 ft lb											
	6.0 m t					4.3	4.3*			2.5*	2.5*	6.8
	20 ft lb					9,0*	9,0*			5,5*	5,5*	22'2"
	4.5 m t					4.2	5.3*	2.8*	2.8*	2.4*	2.4*	7.6
	15 ft lb					9,0	11,5*			5,4*	5,4*	24'10"
	3.0 m t	11.2*	11.2*	6.1	7.4*	4.0	5.9	2.8	4.2	2.5*	2.5*	8.0
	10 ft lb	23,9*	23,9*	13,3	16,0*	8,6	12,8	6,1	8,8*	5,6*	5,6*	26'2"
	1.5 m t	6.8*	6.8*	5.7	8.9	3.8	5.7	2.7	4.1	2.4	2.7*	8.1
	5 ft lb	16,1*	16,1*	12,2	19,2	8,1	12,3	5,8	8,7	5,3	6,0*	26'6"
	0 m t	7.1*	7.1*	5.4	8.6	3.6	5.5	2.6	4.0	2.5	3.1*	7.9
	0 ft lb	16,3*	16,3*	11,5	18,5	7,7	11,9	5,7	8,6	5,4	6,9*	25'10"
	-1.5 m t	9.9*	9.9*	5.2	8.5	3.5	5.4			2.7	3.9*	7.4
	-5 ft lb	21,3	22,5*	11,3	18,2	7,6	11,7			5,9	8,5*	24'1"
	-3.0 m t	10.1	12.7*	5.3	8.5	3.5	5.4			3.2	4.9	6.4
	-10 ft lb	21,6	27,4*	11,4	18,3	7,6	11,7			7,2	11,0	21'
	-4.5 m t	9.0*	9.0*	5.5	6.3*					4.9	5.6*	4.9
	-15 ft lb	19,2*	19,2*	11,9	13,2*					11,0	12,2*	15'10"
LC Blade up	7.5 m t									2.7*	2.7*	5.6
	25 ft lb											
	6.0 m t					4.3*	4.3*			2.5*	2.5*	6.8
	20 ft lb					9,0*	9,0*			5,5*	5,5*	22'2"
	4.5 m t					4.5	5.3*	2.8*	2.8*	2.4*	2.4*	7.6
	15 ft lb					9,7	11,5*			5,4*	5,4*	24'10"
	3.0 m t	11.2*	11.2*	6.6	7.4*	4.3	5.9*	3.0	4.2	2.5*	2.5*	8.0
	10 ft lb	23,9*	23,9*	14,2	16,0*	9,2	12,9*	6,6	8,8*	5,6*	5,6*	26'2"
	1.5 m t	6.8*	6.8*	6.1	9.0*	4.1	5.8	2.9	4.1	2.6	2.7*	8.1
	5 ft lb	16,1*	16,1*	13,2	19,4*	8,8	12,5	6,3	8,9	5,8	6,0*	26'6"
	0 m t	7.1*	7.1*	5.8	8.7	3.9	5.6	2.9	4.0	2.7	3.1*	7.9
	0 ft lb	16,3*	16,3*	12,5	18,8	8,4	12,1	6,2	8,7	5,9	6,9*	25'10"
	-1.5 m t	9.9*	9.9*	5.7	8.6	3.8	5.5			2.9	3.9*	7.4
	-5 ft lb	22,5*	22,5*	12,2	18,5	8,2	11,9			6,4	8,5*	24'1"
	-3.0 m t	10.9	12.7*	5.7	8.6	3.8	5.5			3.5	5.0	6.4
	-10 ft lb	23,3	27,4*	12,3	18,6	8,3	12,0			7,8	11,2	21'
	-4.5 m t	9.0*	9.0*	5.9	6.3*					5.2	5.6*	4.9
	-15 ft lb	19,2*	19,2*	12,8	13,2*					11,9	12,2*	15'10"
LC Blade down	7.5 m t									2.7*	2.7*	5.6
	25 ft lb											
	6.0 m t					4.3*	4.3*			2.5*	2.5*	6.8
	20 ft lb					9,0*	9,0*			5,5*	5,5*	22'2"
	4.5 m t					4.7	5.3*	2.8*	2.8*	2.4*	2.4*	7.6
	15 ft lb					10,2	11,5*			5,4*	5,4*	24'10"
	3.0 m t	11.2*	11.2*	7.0	7.4*	4.5	5.9*	3.2	4.4*	2.5*	2.5*	8.0
	10 ft lb	23,9*	23,9*	15,1	16,0*	9,8	12,9*	6,9	8,8*	5,6*	5,6*	26'2"
	1.5 m t	6.8*	6.8*	6.5	9.0*	4.3	6.7*	3.1	5.5*	2.7*	2.7*	8.1
	5 ft lb	16,1*	16,1*	14,0	19,4*	9,3	14,5*	6,7	10,9*	6,0*	6,0*	26'6"
	0 m t	7.1*	7.1*	6.2	9.9*	4.1	7.2*	3.0	5.5*	2.8	3.1*	7.9
	0 ft lb	16,3*	16,3*	13,3	21,4*	8,9	15,6*	6,5	10,6*	6,2	6,9*	25'10"
	-1.5 m t	9.9*	9.9*	6.1	9.8*	4.0	7.2*			3.1	3.9*	7.4
	-5 ft lb	22,5*	22,5*	13,1	21,3*	8,7	15,6*			6,8	8,5*	24'1"
	-3.0 m t	11.8	12.7*	6.1	8.9*	4.1	6.4*			3.7	5.5*	6.4
	-10 ft lb	25,2	27,4*	13,1	19,1*	8,8	13,7*			8,3	12,3*	21'
	-4.5 m t	9.0*	9.0*	6.3	6.3*					5.6	5.6*	4.9
	-15 ft lb	19,2*	19,2*	13,2*	13,2*					12,2*	12,2*	15'10"

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

The load values are quoted in tons (t) / lb x 1,000 at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 750 mm / 30" wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 285 kg / 628 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

Available Attachments



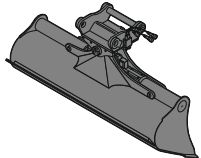
Rigid Ditch Cleaning Bucket

GRL 90, for direct mounting

Cutting width	mm/in	1,500/59"	2,000/79"	2,400/95"				
Capacity	m³/yd³	0.50/0.65	0.70/0.92	0.85/1.11				
Weight	kg/lb	400/880	506/1,120	586/1,290				

GRL 90, for mounting to quick coupler SWA 48

Cutting width	mm/in	1,500/59"	1,500/59"	2,000/79"	2,000/79"	2,000/79"	2,400/95"	2,400/95"
Capacity	m³/yd³	0.50/0.65	0.95/1.24	0.70/0.92	1.20/1.57	1.25/1.63	0.85/1.11	1.15/1.50
Weight	kg/lb	430/950	560/1,240	400/880	640/1,410	600/1,320	600/1,320	650/1,430



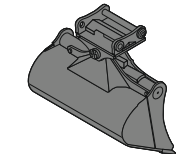
Tilttable Ditch Cleaning Bucket

GRL 90, 2 x 50° tilttable, for direct mounting

Cutting width	mm/in	1,600/63"	1,600/63"	2,000/79"	2,000/79"	2,000/79"	2,200/87"	2,400/95"
Capacity	m³/yd³	0.55/0.72	0.80/1.05	0.50/0.65	0.70/0.92	1.00/1.31	0.80/1.05	0.85/1.11
Weight	kg/lb	650/1,430	790/1,740	610/1,350	800/1,760	870/1,920	800/1,760	870/1,920

GRL 90, 2 x 50° tilttable, for mounting to quick coupler SWA 48

Cutting width	mm/in	1,600/63"	1,600/63"	2,000/79"	2,000/79"	2,000/79"	2,200/87"	2,200/87"	2,400/95"
Capacity	m³/yd³	0.55/0.72	0.80/1.05	0.50/0.65	0.70/0.92	1.00/1.31	0.80/1.05	1.15/1.50	0.85/1.11
Weight	kg/lb	730/1,610	850/1,870	740/1,630	870/1,920	870/1,920	870/1,920	970/2,140	930/2,050



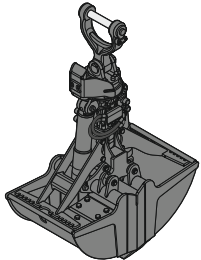
Tilt Bucket

SL 90, 2 x 50° tilttable, for direct mounting

Cutting width	mm/in	1,500/59"	1,600/63"	1,600/63"	
Capacity	m³/yd³	0.60/0.78	0.80/1.05	1.00/1.31	
Weight	kg/lb	680/1,500	750/1,650	810/1,790	

SL 90, 2 x 50° tilttable, for mounting to quick coupler SWA 48

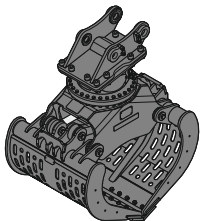
Cutting width	mm/in	1,500/59"	1,600/63"	1,600/63"	1,600/63"
Capacity	m³/yd³	0.60/0.78	0.80/1.05	0.80/1.05	1.00/1.31
Weight	kg/lb	680/1,500	820/1,810	950/2,090	870/1,920
HD-version				X	



Clamshells

GMZ 24, earthmoving shell, for mounting to quick coupler SWA 48

Cutting width	mm/in	600/24"	800/31"	1,000/39"
Capacity	m³/yd³	0.34/0.44	0.46/0.60	0.60/0.78
Weight	kg/lb	890/1,960	970/2,140	1,040/2,290



Sorting Grab

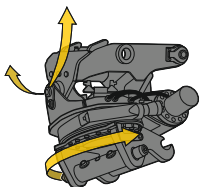
ribbed

perforated

stone tong

SG 25B, for mounting to quick coupler SWA 48

Cutting width	mm/in	800/32"	1,000/39"	800/32"	1,000/39"	1,200/47"	800/32"
Capacity	m³/yd³	0.50/0.65	0.65/0.85	0.55/0.72	0.75/0.98	0.90/1.18	0.60/0.78
Weight	kg/lb	1,210/2,670	1,295/2,860	1,170/2,580	1,230/2,710	1,325/2,920	1,170/2,580



Tiltrotator

LH-TR 25, for mounting to quick coupler SWA 48

Weight	kg/lb	720/1,590
Rotation		360°
Tilt		2 x 50°

Serial Equipment

Undercarriage

Lashing eyes
Sprocket with dirt ejector
Track and carrier rollers, sealed and lifetime-lubricated

Uppercarriage

Anti-skid surfaces
Centralized lubrication system (automatic)
Engine hood with gas spring opening
Filters accessible from ground level
Front right rearview mirrors
Handrails
Hydraulic oil level, visible from ground level
Lockable fuel tank cap
Lockable service doors
Lockable storage box
Main switch, manual, lockable
Protection grid on radiator fan
Sound insulation
Swing drive gearbox oil level, visible from the cab
Swing-out fan
Windshield washer fluid tank

Hydraulic System

Filter with integrated fine filters
Hydraulic pressure measuring ports
Hydraulic tank shut-off valve
Liebherr Synchron Comfort System (LSC)
Magnetic rod
Pressure accumulator for controlled lowering of equipment with engine turned off

Engine

Air filter with automatic dust ejector
Automatic engine idling/speed increase, controlled via joystick sensors
Common-Rail injection system
Exhaust gas after-treatment system – DOC + SCR
Fixed geometry turbocharger
Fuel fine filter
Fuel pre-filter and water separator
Fuel priming pump
Intercooler
Power Pack US EPA Tier 4 Final
Stepless adjustable engine speed



Operator's Cab

7" multifunction color touchscreen
Air conditioning, automatic, tri-zone, controlled via display
Armrests adjustable in width, height and inclination
Bottle holder
Cab air filters housing, accessible from ground level
Cab door sliding windows
Coat hook
DEF consumption on touchscreen
DEF level on touchscreen
Electric socket in cabin (12 V)
Electric socket in cabin (24 V)
Emergency hammer
Fuel consumption on touchscreen
Fuel level on touchscreen
Interior lighting
Laminated right hand side window
LIDAT Plus (Liebherr data transfer system)*
Mechanical hour meters, visible from ground level
Rain hood over front window opening
Rearview mirror
Rear view monitoring camera
Rear window emergency exit
Roll-down sun blinds for windscreen and roof window
ROPS safety cab structure (ISO 12117-2)
Rubber floor mat, fixed on floor and removable
Shortcut button on joystick configurable
Storage nets
Storage spaces
Tilttable console left
Tinted windows
Visco-elastic damping
Windscreen wiper and washer
Work mode selector



Equipment

Boom cylinders regeneration
Pipe fracture safety valve for stick cylinder
Pipe fracture safety valves for boom cylinders
SAE split flanges on high pressure lines
Stick cylinder regeneration

* optionally extendable after one year

Equipment Standard/Option

Undercarriage

Chain guide 1 piece	•
Chain guide 3 pieces	+
Dozer and stabilizer blade 2,850 mm/ 9'4"	+
Dozer and stabilizer blade 3,000 mm/ 9'10"	+
Reinforced cover and base plate for undercarriage center section	+
Rubber track pads 600 mm/ 24"	+
Special painting	+
Standard cover plate for undercarriage center section	•
Steps	+
Steps wide	•
Track pads triple grouser 600 mm/ 24" / 900 mm/ 35"	+
Track pads triple grouser 750 mm/ 30"	•
Tracks, sealed and greased	•
Undercarriage LC	•
Undercarriage storage compartment	+

Uppercarriage

Air pre-filter with cyclonical dust trap	+
Counterweight standard 3.1 t/ 6,830 lb	•
Electric socket on uppercarriage (24 V)	+
Extended tool set including tool box	+
Flashing beacon on uppercarriage, rear, LED, 1 piece	+
Fuel anti-theft protection	+
Headlight on uppercarriage, lateral right, LED+, 1 piece	+ ¹⁾
Headlights on uppercarriage, front, halogen, 2 pieces, protections included	• ¹⁾
Headlights on uppercarriage, front, LED+, 2 pieces, protections included	+ ¹⁾
Headlights on uppercarriage, rear, LED+, 2 pieces	+ ¹⁾
Pre-heating system for fuel	+
Reflective warning stickers	+
Reversible fan drive	+
Skyview 360°	+
Special painting	+
Tank refilling pump fuel	+
Tool set including storage case	•



Hydraulic System

Bypass filter for hydraulic oil	+
Liebherr hydraulic oil	•
Liebherr hydraulic oil, adapted for extreme climate conditions	+
Liebherr hydraulic oil, biodegradable	+



Engine

Automatic engine shutdown after idling	+
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Operator's Cab

3" seat belt with retractor, orange color	•
4-points seat belt	+
Acoustic travel alarm deactivatable	+
Attachment continuous operation system	+
Auxiliary heater programmable	+
Bottom windscreen wiper	+
Cool box (12 V)	+
Dark tinted windows	+
Electronic immobilizer	+
Emergency stop in cab	+
FGPS front guard	+
Filter for hydraulic hammer return flow	+
Fire extinguisher	+
First-aid box	+
Flashing beacon on cabin, LED, 1 piece	+
Footrest	+
FOPS top guard	+
Handrests elevated for joysticks	+
Headlights on cab, front, halogen, 2 pieces	• ¹⁾
Headlights on cab, front, LED+, 2 pieces	+ ¹⁾
Headlights on cab roof, front, LED+, 2 pieces	+ ¹⁾
High pressure circuit switchable on pedals or mini-joystick	+
High pressure circuit with Tool Control (20 attachment adjustments on display)	+
Impact resistant one-piece windscreen	+
Impact resistant roof window	+
Laminated roof window	•
Lightbar on cabin	+
Medium pressure circuit	+
Mini-joysticks proportional	•
Movement restriction for stick	+
Operator seat Comfort	•
Operator seat Premium	+
Overload warning system	+
Preparation for machine guidance system	+
Radio Comfort	+
Radio pre-installation	•
Retractable laminated two-piece windscreen	•
Right hand side view monitoring camera	•
Roof sun shield	+
Roof window wiper	+
Special painting	+
Sun visor	+
Switch between high pressure and bucket cylinder controls	+
Windscreen bottom protection grid	+



Equipment

Bucket cylinder rod protection	+
Centralized lubrication extended for connecting link	+
Centralized lubrication extended for quick coupler	+
Grapple hydraulic lines (bucket cylinder inactive)	+
Headlight guards on boom	+
Headlights on boom, halogen, 2 pieces	• ¹⁾
Headlights on boom, LED+, 2 pieces	+ ¹⁾
Headlights on stick, right and left, LED+, 2 pieces, protections included	+ ¹⁾
Leak oil line for attachment	+
Liebherr bucket range	+
Liebherr tooth system	+
LIKUFIX electric signal plug	+
LIKUFIX for quick coupler SWA 48 hydraulic	+
Load holding valve for bucket cylinder	+
Mono boom 5.20 m / 17'1"	•
Quick coupler SWA 48 hydraulic	+
Quick coupler SWA 48 mechanical	+
Security for hoist cylinders	+
Special painting	+
Stick 2.25 m / 7'5"	+
Stick 2.65 m / 8'8"	+
Stick 3.05 m / 10'	+
Stick bottom protection	+
Tool Management	+
Working envelope height limitation	+

• = Standard, + = Option

¹⁾ Equipment not individually available, but only as predefined lighting packages
Non-exhaustive list, please contact us for further information.

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

The Liebherr Group of Companies



Diverse Product Range

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

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and superior quality, Liebherr products offer customers the highest benefits in practical applications.

State-of-the-art Technology

Liebherr attributes great importance to the product areas of core technology and components, in order to achieve its consistent, top-quality products. Important modules and components are developed and manufactured in-house, for instance, the entire drive and control technology for the construction equipment and mining trucks.

Worldwide and Family-Owned

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with more than 48,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.us