

Crawler Tractors

PR 736

Litronic®

Generation

8

Operating Weight

20,000–24,900 kg / 44,092–54,895 lb

Engine Output

SAE J1349 ISO 9249

160 kW/214 HP 160 kW/217 HP

Tier 3 Stage IIIa



LIEBHERR

Technical Data PR 736



Engine

Liebherr Diesel engine	D 934 EVO Emission regulations according to 97/68/EC, 2004/26/EC Stage IIIa, EPA/CARB Tier 3
Rated power (net)	
ISO 9249	160 kW/217 HP
SAE J1349	160 kW/214 HP
Maximum power (net)	
ISO 9249	175 kW/238 HP
SAE J1349	175 kW/235 HP
Rated speed	1,900 rpm
Displacement	7.0 l/427 in ³
Design	4 cylinder in-line engine, water-cooled, turbocharged, air-to-air intercooler
Injection system	Direct fuel injection, Common Rail, electronic control
Lubrication	Pressurised lube system, engine lubrication guaranteed for inclinations up to 45°, on all sides
Operating voltage	24 V
Alternator	140 A
Starter	7.8 kW/11 HP
Batteries	2 x 180 Ah/12 V
Air cleaner	Dry-type air cleaner with vacuum indicator and automatic dust filter system, main and safety elements
Cooling system	Combi radiator, comprising radiators for water, hydraulic fluid, charge air. Hydrostatic fan drive



Hydraulics

Hydraulic system	Open-center with load-sensing control block
Pump type	Gear pump
Pump flow max.	206 l/min./54.4 gpm/45.3 Imp.gpm
Pressure limitation	260 bar/3,770 psi (6-way blade) 200 bar/2,900 psi (Straight blade)
Control valve	2 segments, expandable to 4
Filter system	Return filter with magnetic rod in the hydraulic tank
Control	Single joystick for all blade functions



Travel Drive, Control

Transmission system	Infinitely variable hydrostatic travel drive, independent drive for each track
Travel speed*	Continuously variable
Speed range 1:	0–6.5 km/h/4.0 mph (forward & reverse)
Speed range 2:	0–8.5 km/h/5.3 mph (forward & reverse)
Speed range 3:	0–11.0 km/h/6.8 mph (forward & reverse)
	* Travel speed ranges can be set on the travel joystick (memory function)
Electronic control	The electronic system automatically adjusts travel speed and drawbar pull to match changing load conditions
Steering	Hydrostatic
Service brake	Hydrostatic (self-locking), wear-free
Parking brake	Multi-disk brake, wear-free, automatically applied with neutral joystick position
Cooling system	Hydraulic oil cooler integrated in combi radiator, hydrostatic fan drive
Filter system	Micro cartridge filters in replenishing circuit
Final drive	Combination spur gear with planetary gear, double-sealed (duo cone seals) with temperature control
Control	Proportional joystick for all travel and steering functions. Optional: detented joystick, with inching pedal



Operator's Cab

Cab	Resiliently mounted cab with positive pressure ventilation, can be tilted with hand pump 40° to the rear. With integrated ROPS Rollover Protective Structure (EN ISO 3471) and FOPS Falling Objects Protective Structure (EN ISO 3449)
Operator's seat	Air-suspended comfort seat, fully adjustable
Monitoring	Touch screen: display of current machine information, automatic monitoring of operating conditions. Individual setting of machine parameters
Vibration emission	
Hand/arm vibrations	<2.5 m/s ² , according with ISO 5349-1:2001
Whole-body vibrations	0.24 – 1.31 m/s ² , complies with technical report ISO/TR 25398:2006
Measuring inaccuracy	According with standard EN 12096:1997

Undercarriage

	L	XL	LGP
Design	Undercarriage with rigid bottom rollers		
Mounting	Via separate pivot shafts and equalizer bar		
Track chains	Lubricated, single-grouser shoes, tensioning via a steel spring and grease tensioner		
Links, each side	41	45	45
Track rollers, each side	6	7	7
Carrier rollers, each side	2	2	2
Sprocket segments, each side	6	6	6
Track shoes, standard	610 mm/24"	610 mm/24"	711 mm/28" 812 mm/32"
Track shoes, optional	560 mm/22"	560 mm/22"	914 mm/36" 965 mm/38"

Sound Levels

Operator sound exposure ISO 6396	
L _{pA} (in the cab)	75 dB(A)
Exterior sound pressure ISO 6395	
L _{WA} (to the environment)	111 dB(A)

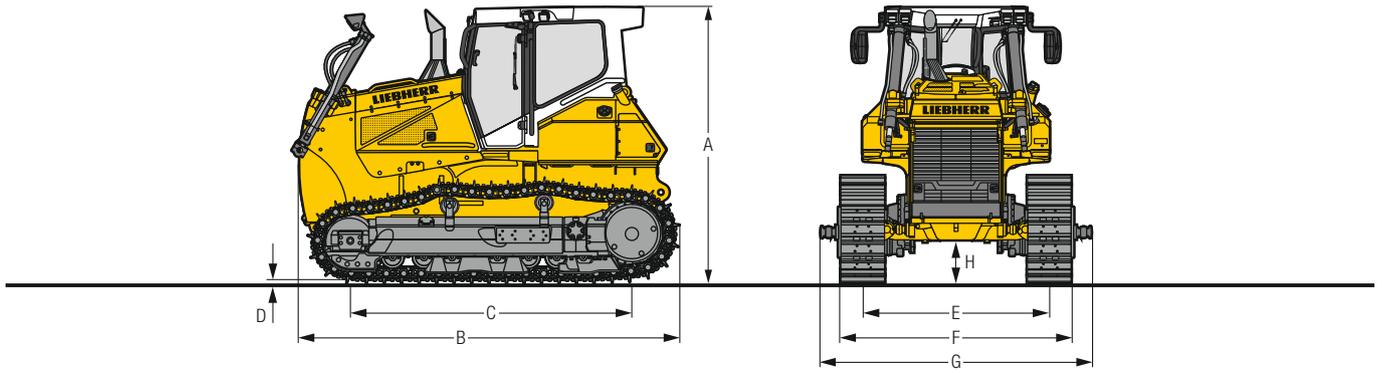
Refill Capacities

Final drive L and XL (outside push frame), each side	15 l/4 gal/3.3 Imp.gal
Final drive XL (inside push frame), each side	22 l/5.8 gal/4.8 Imp.gal
Final drive LGP (outside push frame), each side	26.5 l/7 gal/5.8 Imp.gal
Final drive LGP (inside push frame), each side	30 l/7.9 gal/6.6 Imp.gal
Hydraulic tank	191 l/50.4 gal/42.0 Imp.gal
Fuel tank	430 l/113.5 gal/94.6 Imp.gal
Cooling system	41 l/10.8 gal/9 Imp.gal
Engine oil, with filter	29 l/7.7 gal/6.4 Imp.gal

Drawbar Pull

Max.	314 kN
at 1.5 km/h/0.9 mph	277 kN
at 3.0 km/h/1.9 mph	164 kN
at 6.0 km/h/3.7 mph	82 kN
at 9.0 km/h/5.6 mph	55 kN

Dimensions PR 736

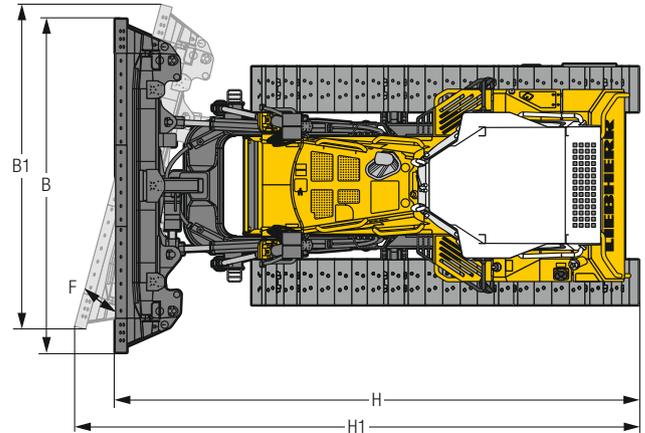
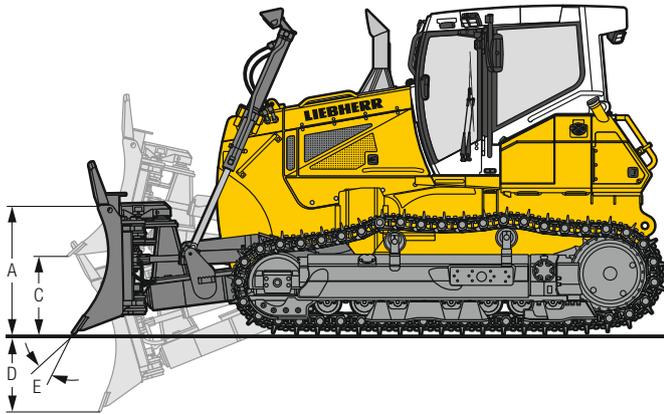


Dimensions

Push frame			outside	inside	outside	inside	outside
Undercarriage			L	XL	XL	LGP	LGP
A	Height over cab	mm	3,265		3,265		3,265
		ft in	10'9"		10'9"		10'9"
B	Overall length without attachments	mm	4,428		4,428		4,428
		ft in	14'6"		14'6"		14'6"
C	Length of track on ground	mm	2,872		3,283		3,283
		ft in	9'5"		10'9"		10'9"
D	Height of grousers	mm	65		65		65
		ft in	0'3"		0'3"		0'3"
H	Ground clearance	mm	511		511		511
		ft in	1'8"		1'8"		1'8"
E	Track gauge	mm	1,830	2,180	1,830	2,290/2,390	2,180
		ft in	6'0"	7'2"	6'0"	7'6"/7'10"	7'2"
G	Width over trunnions	mm	2,724	—	2,724	—	3,474
		ft in	8'11"	—	8'11"	—	11'5"
F	Track shoes 560 mm/22"						
	Width over tracks	mm / ft in	2,390/7'10"	2,740/9'	2,390/7'10"	—	—
	Tractor shipping weight ¹⁾	kg / lb	17,236/37,999	17,711/39,046	17,786/39,211	—	—
F	Track shoes 610 mm/24"						
	Width over tracks	mm / ft in	2,440/8'0"	2,790/7'10"	2,440/8'0"	—	—
	Tractor shipping weight ¹⁾	kg / lb	17,375/38,305	17,850/39,352	17,925/39,518	—	—
F	Track shoes 711 mm/28"						
	Width over tracks	mm / ft in	—	—	—	3,000/9'10"	—
	Tractor shipping weight ¹⁾	kg / lb	—	—	—	18,149/40,012	—
F	Track shoes 812 mm/32"						
	Width over tracks	mm / ft in	—	—	—	3,202/10'6"	2,992/9'10"
	Tractor shipping weight ¹⁾	kg / lb	—	—	—	18,428/40,627	18,671/41,162
F	Track shoes 914 mm/36"						
	Width over tracks	mm / ft in	—	—	—	—	3,094/10'2"
	Tractor shipping weight ¹⁾	kg / lb	—	—	—	—	18,967/41,815
F	Track shoes 965 mm/38"						
	Width over tracks	mm / ft in	—	—	—	—	3,145/10'4"
	Tractor shipping weight ¹⁾	kg / lb	—	—	—	—	19,119/42,150

¹⁾ Including coolant and lubricants, 20% fuel, ROPS/FOPS cab.

Front Attachments PR 736



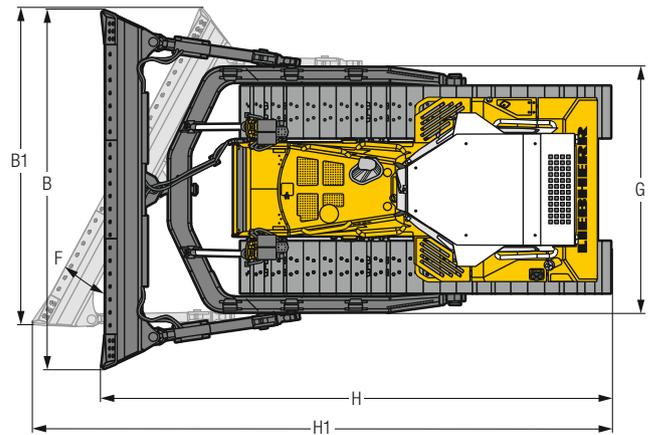
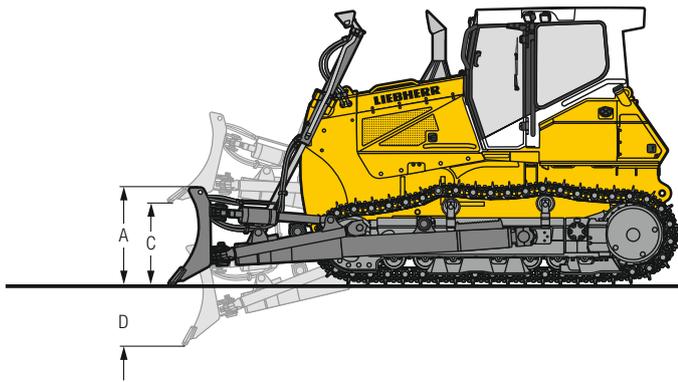
6-Way Blade with Inside Mounted Push Frame

		6-way blade	6-way blade with hinged corners	6-way blade	6-way blade with hinged corners
Undercarriage		XL	XL	LGP	LGP
Blade capacity, ISO 9246	m³	4.78	4.78	4.84	4.84
	yd³	6.25	6.25	6.33	6.33
A Height of blade	mm	1,350	1,350	1,250	1,250
	ft in	4'5"	4'5"	4'1"	4'1"
B Width of blade	mm	3,764	3,764	4,210	4,210
	ft in	12'4"	12'4"	13'10"	13'10"
B1 Width of blade, angled	mm	3,508	3,508	3,918	3,918
	ft in	11'6"	11'6"	12'10"	12'10"
Transport width	mm	3,469	2,990	3,876	3,000 ²⁾
	ft in	11'5"	9'10"	12'9"	9'10"
C Lifting height	mm	1,267	1,267	1,260	1,260
	ft in	4'2"	4'2"	4'2"	4'2"
D Digging depth	mm	665	665	661	661
	ft in	2'2"	2'2"	2'2"	2'2"
E Blade pitch adjustment		5°	5°	5°	5°
F Blade angle adjustment		23.3°	23.3°	23.3°	23.3°
Max. blade tilt	mm	479	479	536	536
	ft in	1'7"	1'7"	1'9"	1'9"
H Overall length, blade straight	mm	5,878	5,878	5,861	5,861
	ft in	19'3"	19'3"	19'3"	19'3"
H1 Overall length, blade angled	mm	6,567	6,567	6,640	6,640
	ft in	21'7"	21'7"	21'9"	21'9"
Track shoes 560 mm / 22"					
Operating weight ¹⁾	kg / lb	20,994 / 46,284	21,416 / 47,214	–	–
Ground pressure ¹⁾	kg/cm² / psi	0.57 / 8.11	0.58 / 8.25	–	–
Track shoes 610 mm / 24"					
Operating weight ¹⁾	kg / lb	21,133 / 46,590	21,555 / 47,521	–	–
Ground pressure ¹⁾	kg/cm² / psi	0.53 / 7.54	0.54 / 7.68	–	–
Track shoes 711 mm / 28"					
Operating weight ¹⁾	kg / lb	–	–	21,657 / 47,745	22,151 / 48,835
Ground pressure ¹⁾	kg/cm² / psi	–	–	0.46 / 6.54	0.47 / 6.68
Track shoes 812 mm / 32"					
Operating weight ¹⁾	kg / lb	–	–	21,936 / 48,361	22,430 / 49,450
Ground pressure ¹⁾	kg/cm² / psi	–	–	0.41 / 5.83	0.42 / 5.97

¹⁾ Including coolant and lubricants, 100% fuel, ROPS/FOPS cab, operator, 6-way blade.

²⁾ Transport width 3,000 mm with 711 mm (28") track pads. Transport width 3,202 mm with 812 mm (32") track pads.

Front Attachments PR 736

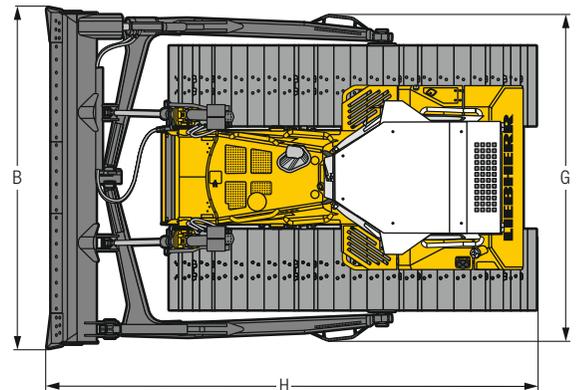
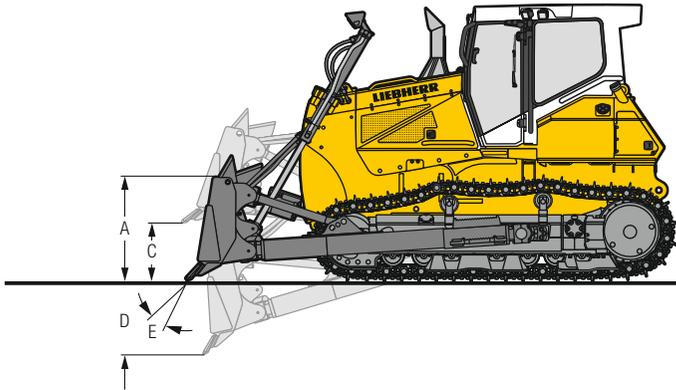


Mechanical Angle Blade

		with tilt function	
		XL	
Undercarriage			
Blade capacity, ISO 9246		m ³	3.80
		yd ³	4.97
A	Height of blade	mm	1,100
		ft in	3'7"
B	Width of blade	mm	4,245
		ft in	13'11"
B1	Transport width	mm	3,850
		ft in	12'8"
C	Lifting height	mm	1,224
		ft in	4'0"
D	Digging depth	mm	605
		ft in	2'0"
F	Blade angle adjustment		25°
Max. blade tilt		mm	679
		ft in	2'3"
G	Width over push frame	mm	2,890
		ft in	9'6"
H	Overall length, blade straight	mm	5,964
		ft in	19'7"
H1	Overall length, blade angled	mm	6,796
		ft in	22'4"
Track shoes 560 mm / 22"			
Operating weight ¹⁾		kg / lb	20,958 / 46,204
Ground pressure ¹⁾		kg/cm ² / psi	0.57 / 8.11
Track shoes 610 mm / 24"			
Operating weight ¹⁾		kg / lb	21,099 / 46,515
Ground pressure ¹⁾		kg/cm ² / psi	0.53 / 7.54

¹⁾ Includes coolant and lubricants, 100% fuel, ROPS/FOPS cab, operator, mechanical angle blade.

Front Attachments PR 736



Semi-U Blade and Straight Blade

		Semi-U blade	Semi-U blade	Straight blade
Undercarriage		L	XL	LGP
Blade capacity, ISO 9246	m³	5.56	5.56	4.10
	yd³	7.27	7.27	5.36
A Height of blade	mm	1,400	1,400	1,150
	ft in	4'7"	4'7"	3'9"
B Width of blade	mm	3,372	3,372	3,995
	ft in	11'1"	11'1"	13'1"
C Lifting height	mm	1,243	1,216	1,225
	ft in	4'1"	4'0"	4'0"
D Digging depth	mm	464	511	516
	ft in	1'6"	1'8"	1'8"
E Blade pitch adjustment		10°	10°	10°
Max. blade tilt	mm	432	432	395
	ft in	1'5"	1'5"	1'4"
G Width over push frame	mm	3,086	3,086	3,836
	ft in	10'1"	10'1"	12'7"
H Overall length	mm	5,748	5,968	5,758
	ft in	18'10"	19'7"	18'11"
Track shoes 560 mm / 22"				
Operating weight ¹⁾	kg / lb	20,005 / 44,103	20,555 / 45,316	–
Ground pressure ¹⁾	kg/cm² / psi	0.62 / 8.82	0.56 / 7.96	–
Track shoes 610 mm / 24"				
Operating weight ¹⁾	kg / lb	20,146 / 44,414	20,696 / 45,627	–
Ground pressure ¹⁾	kg/cm² / psi	0.57 / 8.11	0.52 / 7.39	–
Track shoes 812 mm / 32"				
Operating weight ¹⁾	kg / lb	–	–	21,926 / 48,338
Ground pressure ¹⁾	kg/cm² / psi	–	–	0.41 / 5.83
Track shoes 914 mm / 36"				
Operating weight ¹⁾	kg / lb	–	–	22,222 / 48,991
Ground pressure ¹⁾	kg/cm² / psi	–	–	0.37 / 5.26
Track shoes 965 mm / 38"				
Operating weight ¹⁾	kg / lb	–	–	22,374 / 49,326
Ground pressure ¹⁾	kg/cm² / psi	–	–	0.35 / 4.98

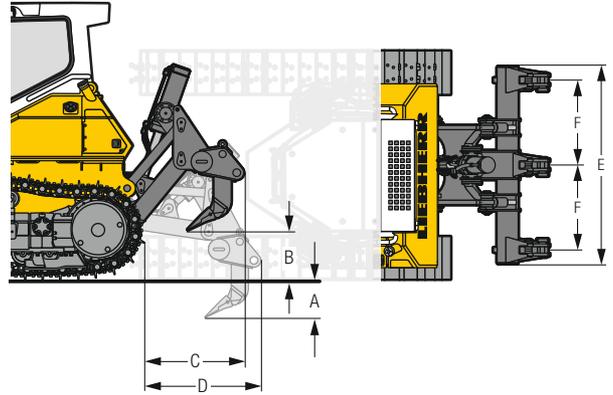
¹⁾ Including coolant and lubricants, 100% fuel, ROPS/FOPS cab, operator, semi-U or straight blade.

Rear Attachments PR 736



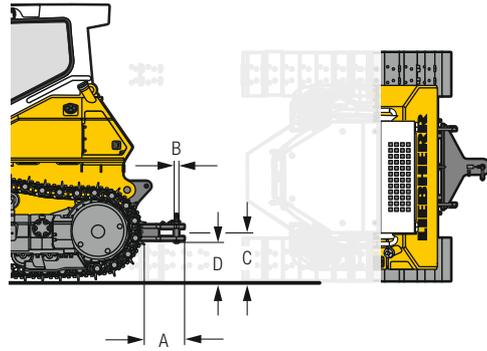
3-Shank Ripper

A Ripping depth (max./min.)	mm	449/299
	ft in	1'6"/1'
B Lifting height (max./min.)	mm	738/588
	ft in	2'5"/1'10"
C Additional length, attachment raised	mm	1,138
	ft in	3'9"
D Additional length, attachment lowered	mm	1,469
	ft in	4'10"
E Overall beam width	mm	2,320
	ft in	7'7"
F Distance between shanks	mm	1,000
	ft in	3'3"
Max. pitch adjustment		-
Weight	kg	1,920
	lb	4,233



Drawbar

		rigid
A Additional length	mm	436
	ft in	1'5"
B Socket pin diameter	mm	50
	in	1.97"
C Height of jaw	mm	580
	ft in	1'11"
D Ground clearance	mm	492
	ft in	1'7"
Jaw opening	mm	95
	in	3.74"
Weight	kg	280
	lb	617



Equipment



Base Machine

Additional handle on fuel tank	+
Air filter with automatic dust ejector	•
Air filter, dry type, dual step, with pre-filter	•
Air pre-cleaner Sy-Klone	+
Air pre-cleaner Top Air	+
Auto Idle	+
Automatic blade stabilization + inclination control	+
Automatic engine shut-off	+
Battery compartment, lockable	•
Coal arrangement	+
Cold environment arrangement	+
Cooling fan front, tilt-out	•
Cooling fan, hydraulically driven	•
Cooling fan, reversible	+
Engine compartment doors, lockable	•
Engine compartment lighting	•
Forestry arrangement	+
Fuel pre-filter	•
Fuel pre-filter, with electric heater	+
Fuel water separator	•
Fuel water separator, with electric heater	+
Grade control ready kit	+
Landfill arrangement	+
LiDAT – Data transmission system	•
Liebherr diesel engine emission stage IIIa	•
Liebherr hydraulic oil, biologically degradable	+
Radiator guard, hinged	•
Radiator, wide-meshed	•
Refuelling pump, electric	+
Roof mounted grading system	+
Spade with mounting bracket	+
Special paint scheme	+
Tool kit, basic	•
Tool kit, extended	+
Towing hitch rear	•
Towing lug front	•
Woodchip arrangement	+



Hydraulics System

Automatic lifting of the ripper into the parking position	•
Blade float function	•
Blade quick drop function	•
Blade shake feature	•
Electronic pilot control of the working hydraulics	•
Hydraulic kit for ripper	+
Hydraulic kit for winch	+
Load-Sensing control block and gear pump	•
Oil filter in hydraulic tank	•



Travel Drive

Emergency stop	•
Final drives planetary gear	•
Inching brake pedal	+
Load limit control, electronic	•
Machine-release switch	•
Parking brake, automatic	•
Seat contact switch	•
Travel control, 3 speed ranges	•
Travel drive joystick, detented	+
Travel drive joystick, proportional	•
Travel drive, hydrostatic	•



Operator's Cab

Access and exit step lighting	+
Armrests 3D adjustable	•
Automatic climate control	•
Cab heating	•
Coat hook	•
Dome light LED	•
Dust filter system pressurised	+
Extension of cab door footstep	+
Fire extinguisher	+
Foot support on front console	+
Noise-absorbing cab mounts	•
Operator's seat Comfort, air-suspended	•
Operator's seat Premium, air-suspended	+
Pressurised cab	•
Protective grid for rear window	+
Radio	+
Radio preparation kit	+
Rear-mounted mirror for ripper	+
Rear-view camera	+
Rear-view mirror, inside	•
Rear-view mirrors, external	+
ROPS/FOPS integrated	•
Safety glass	•
Sliding window left	+
Sliding window right	+
Socket 12 V + 24 V	•
Storage nets	+
Stowage compartment, air-conditioned	•
Sun visor, front	+
Tilttable cab	•
Touch-controlled colour display	•
Warm water heating	+
Windshield washer system	•
Windshield wipers front, rear, doors, with intermittent function	•

• = Standard
 + = Option
 - = not available

Equipment



Electrical System

1 additional working light on each lift cylinder	+
1 working light on each lift cylinder	•
2 additional working light on the cab, rear	+
2 batteries cold start	•
2 working lights on the cab, rear	•
4 working light on the cab, front	•
All working lights in LED version	+
Back-up alarm with broadband signal	+
Back-up alarm with broadband signal and visual	+
Back-up alarm, acoustic	+
Back-up alarm, acoustic and visual	+
Battery main switch	•
Battery main switch, lockable	+
Beacon	+
Horn	•
Immobiliser, electronic	+
On-board voltage 24 V	•

Undercarriage

Master link, two-piece	•
Sprocket segments with recesses	+
Sprocket segments, bolted	•
Track frame, closed	•
Track guard, full length	+
Track guide centre part	+
Track guide, front and rear	•
Track pads with mud holes ²⁾	+
Track shoes, moderate service	•
Tracks, oil-lubricated	•
Undercarriage L	+
Undercarriage LGP	+
Undercarriage with rigid bottom rollers	•
Undercarriage XL	+



Attachments Front

6-way blade	+
6-way blade with hinged corners	+
Guards for hydraulic cylinders, 6-way blade	+
Mechanical angle blade	+
Semi-U blade	+
Side wings for 6-way blade, bolt-on	+
Side wings for straight blade, welded	+
Spill plate	+
Straight blade	+
Trash rack	+
U blade	1)
Wear plates on push frame	+
Wear plates on semi-U blade	+



Attachments Rear

Counterweight, rear (2,000 kg / 4,409 lb)	+
Drawbar rear, rigid	+
Mounting plate for third-party equipment	+
Ripper, 1 shank	+
Ripper, 3 shank	+
Winch	+

• = Standard

+ = Option

- = not available

¹⁾ on demand at your dealer

²⁾ available track shoes on demand at your dealer

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

Brochure valid for all countries except Russia

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