

Crawler Tractors

PR 736 G8

Litronic®

Operating Weight

21,200–25,500 kg / 46,738–56,218 lb

Engine Output

SAE J1349	ISO 9249
160 kW / 214 HP	160 kW / 217 HP
Tier 4f EU	Stage V



LIEBHERR

Technical Data PR 736



Engine

Liebherr Diesel engine	D 934 EVO Emission regulations according to 97/68/EC, 2004/26/EC Stage V, EPA/CARB Tier 4f
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	Load sensing (demand-controlled)
Pump type	Swash plate piston pump
Pump flow max.	190 l/min./50.2 gpm/41.8 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 (reverse):	0–4.0 km/h/2.5 mph (4.5 km/h/2.8 mph)
Speed range 2 (reverse):	0–6.0 km/h/3.7 mph (8.0 km/h/4.9 mph)
Speed range 3 (reverse):	0–11.0 km/h/6.8 mph (11.0 km/h/6.8 mph)
	* 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

Undercarriage

	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	45	45
Track rollers, each side	7	7
Carrier rollers, each side	2	2
Sprocket segments, each side	6	6
Track shoes, standard	610 mm/24"	711 mm/28" 812 mm/32"
Track shoes, optional	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 2000/14/EC	
L _{WA} (to the environment)	111 dB(A)



Refill Capacities

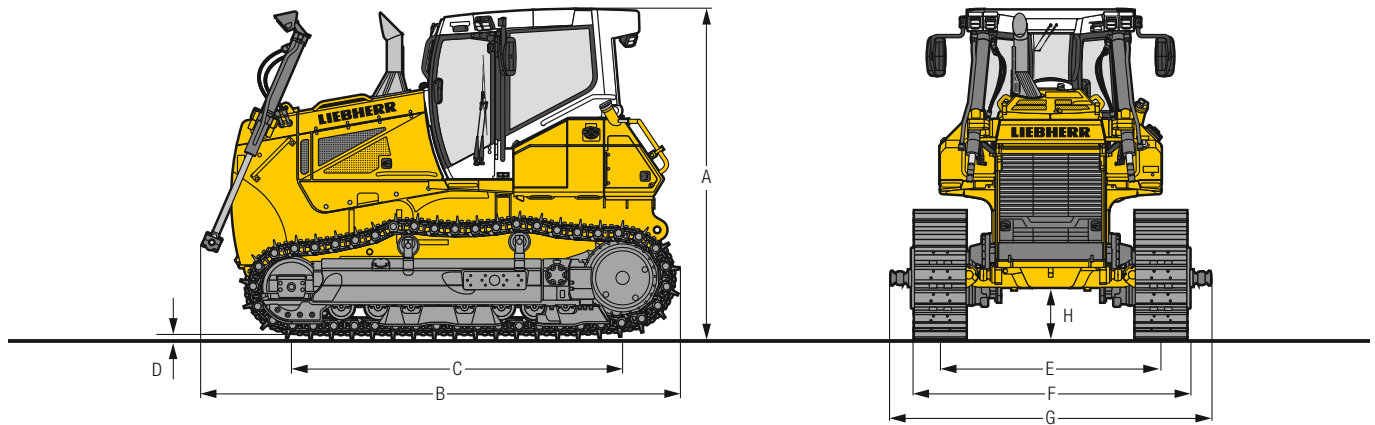
Final drive XL (outside push frame), each side	15 l/4 gal/3.3 Imp.gal
Final drive XL (inside push frame), each side	22 l/5.8 gal/4.8 Imp.gal
Final drive LGP (outside push frame), each side	26.5 l/7 gal/5.8 Imp.gal
Final drive LGP (inside push frame), each side	30 l/7.9 gal/6.6 Imp.gal
Diesel Exhaust Fluid (DEF) tank	45 l/11.9 gal/9.9 Imp.gal
Hydraulic tank	111 l/29.3 gal/24.4 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

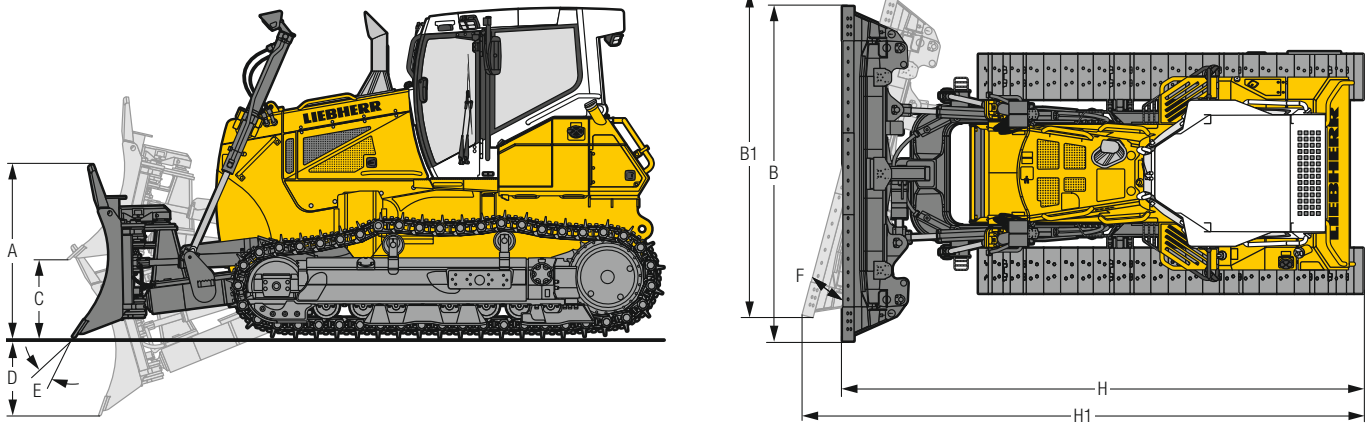


Dimensions

Push frame			inside	outside	inside	outside
Undercarriage			XL	XL	LGP	LGP
A	Height over cab	mm		3,253		3,253
		ft in		10'8"		10'8"
B	Overall length without attachments	mm		4,428		4,428
		ft in		14'6"		14'6"
C	Length of track on ground	mm		3,283		3,283
		ft in		10'9"		10'9"
D	Height of grousers	mm		65		65
		ft in		2.5"		2.5"
H	Ground clearance	mm		511		511
		ft in		1'8"		1'8"
E	Track gauge	mm	2,180	1,830	2,290/2,390	2,180
		ft in	7'2"	6'0"	7'6"/7'10"	7'2"
G	Width over trunnions	mm	–	2,724	–	3,474
		ft in	–	8'11"	–	11'5"
F	Track shoes 560 mm / 22"					
	Width over tracks	mm / ft in	2,740 / 9'	2,390 / 7'10"	–	–
	Tractor shipping weight ¹⁾	kg / lb	18,321 / 40,391	18,396 / 40,556	–	–
F	Track shoes 610 mm / 24"					
	Width over tracks	mm / ft in	2,790 / 7'10"	2,440 / 8'0"	–	–
	Tractor shipping weight ¹⁾	kg / lb	18,460 / 40,697	18,535 / 40,863	–	–
F	Track shoes 711 mm / 28"					
	Width over tracks	mm / ft in	–	–	3,000 / 9'10"	–
	Tractor shipping weight ¹⁾	kg / lb	–	–	18,759 / 41,356	–
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	–	–	19,038 / 41,972	19,281 / 42,507
F	Track shoes 914 mm / 36"					
	Width over tracks	mm / ft in	–	–	–	3,094 / 10'2"
	Tractor shipping weight ¹⁾	kg / lb	–	–	–	19,577 / 43,160
F	Track shoes 965 mm / 38"					
	Width over tracks	mm / ft in	–	–	–	3,145 / 10'4"
	Tractor shipping weight ¹⁾	kg / lb	–	–	–	19,729 / 43,495

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

Front Attachments PR 736



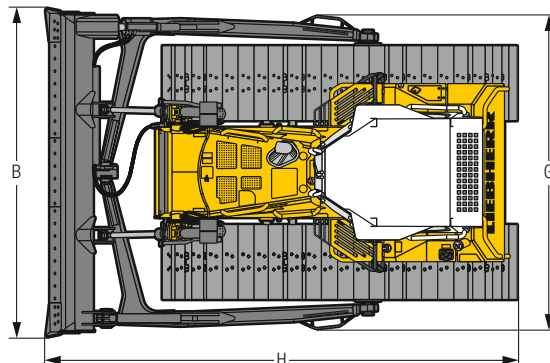
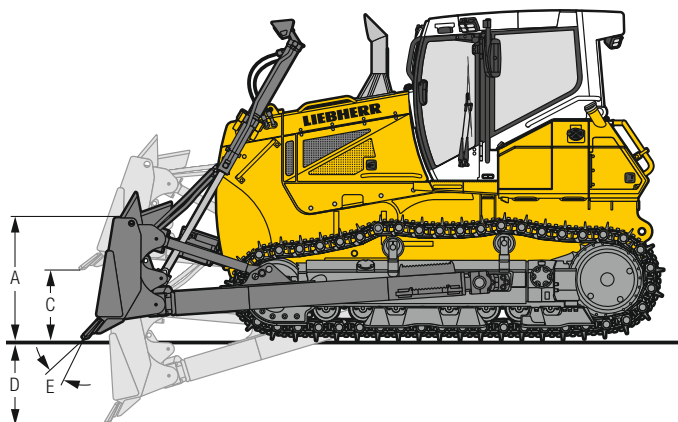
6-Way Blade with Inside Mounted Push Frame

		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	1,202	1,202	1,195	1,195
	ft in	3'11"	3'11"	3'11"	3'11"
D Digging depth	mm	730	730	726	726
	ft in	2'5"	2'5"	2'5"	2'5"
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	21,604 / 47,629	22,026 / 48,559	–	–
Ground pressure ¹⁾	kg/cm² / psi	0.59 / 8.39	0.60 / 8.53	–	–
Track shoes 610 mm / 24"					
Operating weight ¹⁾	kg / lb	21,743 / 47,935	22,165 / 48,865	–	–
Ground pressure ¹⁾	kg/cm² / psi	0.54 / 7.68	0.55 / 7.82	–	–
Track shoes 711 mm / 28"					
Operating weight ¹⁾	kg / lb	–	–	22,267 / 49,090	22,761 / 50,179
Ground pressure ¹⁾	kg/cm² / psi	–	–	0.48 / 6.83	0.49 / 6.97
Track shoes 812 mm / 32"					
Operating weight ¹⁾	kg / lb	–	–	22,546 / 49,705	23,040 / 50,794
Ground pressure ¹⁾	kg/cm² / psi	–	–	0.42 / 5.97	0.43 / 6.11

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

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

Front Attachments PR 736



Semi-U Blade and Straight Blade

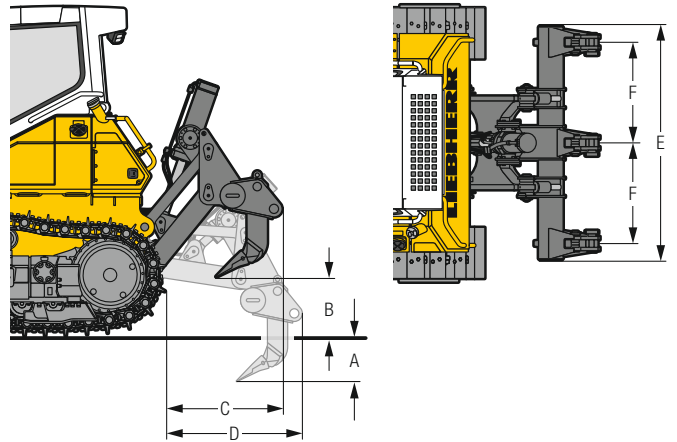
		Semi-U blade		Straight blade	
		XL		LGP	
Undercarriage					
Blade capacity, ISO 9246	m ³	5.56	4.10		
	yd ³	7.27	5.36		
A Height of blade	mm	1,400	1,150		
	ft in	4'7"	3'9"		
B Width of blade	mm	3,372	3,995		
	ft in	11'1"	13'1"		
C Lifting height	mm	1,151	1,160		
	ft in	3'9"	3'10"		
D Digging depth	mm	576	581		
	ft in	1'11"	1'11"		
E Blade pitch adjustment		10°	10°		
Max. blade tilt	mm	432	395		
	ft in	1'5"	1'4"		
G Width over push frame	mm	3,086	3,836		
	ft in	10'1"	12'7"		
H Overall length	mm	5,968	5,758		
	ft in	19'7"	18'11"		
Track shoes 560 mm / 22"					
Operating weight ¹⁾	kg / lb	21,165 / 46,661	–		
Ground pressure ¹⁾	kg/cm ² / psi	0.58 / 8.25	–		
Track shoes 610 mm / 24"					
Operating weight ¹⁾	kg / lb	21,306 / 46,972	–		
Ground pressure ¹⁾	kg/cm ² / psi	0.53 / 7.54	–		
Track shoes 812 mm / 32"					
Operating weight ¹⁾	kg / lb	–	22,536 / 49,683		
Ground pressure ¹⁾	kg/cm ² / psi	–	0.42 / 5.97		
Track shoes 914 mm / 36"					
Operating weight ¹⁾	kg / lb	–	22,832 / 50,336		
Ground pressure ¹⁾	kg/cm ² / psi	–	0.38 / 5.4		
Track shoes 965 mm / 38"					
Operating weight ¹⁾	kg / lb	–	22,984 / 50,671		
Ground pressure ¹⁾	kg/cm ² / psi	–	0.36 / 5.12		

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

Rear Attachments PR 736

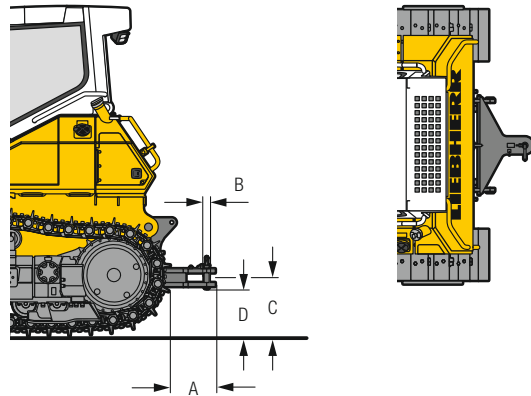
3-Shank Ripper

A	Ripping depth (max./min.)	mm	514/364
		ft in	1'8"/1'2"
B	Lifting height (max./min.)	mm	673/523
		ft in	2'2"/1'9"
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	515
		ft in	1'8"
D	Ground clearance	mm	427
		ft in	1'5"
	Jaw opening	mm	95
		in	3.74"
Weight		kg	280
		lb	617



Equipment



Base Machine

Towing hitch rear	•
Forestry arrangement	+
Woodchip arrangement	+
Cold environment arrangement	+
Coal arrangement	+
Landfill arrangement	+
Auto Idle	+
Automatic engine shut-off	+
Automatic blade stabilization + inclination control	•
Battery compartment, lockable	•
Engine compartment lighting	•
Refuelling pump, electric	+
Roof mounted grading system	+
Diesel Exhaust Fluid (DEF) tank, lockable	•
Fuel pre-filter	•
Fuel pre-filter, with electric heater	+
Fuel water separator	•
Fuel water separator, with electric heater	+
Radiator, wide-meshed	•
Radiator guard, hinged	•
LiDAT – Data transmission system	•
Liebherr diesel engine emission stage V/Tier 4f	•
Liebherr hydraulic oil, biologically degradable	+
Cooling fan front, tilt-out	•
Cooling fan, reversible	+
Cooling fan, hydraulically driven	•
Air pre-cleaner Sy-Klone	+
Air pre-cleaner Top Air	+
Engine compartment doors, lockable	•
Lugs for crane lifting, rear	+
Lugs for crane lifting, front	•
Special paint scheme	+
Spade with mounting bracket	+
Dust filter system pressurised	+
Air filter, dry type, dual step, with pre-filter	•
Air filter with automatic dust ejector	•
Towing lug front	•
Grade control ready kit	+
Tool kit, basic	•
Tool kit, extended	+
Additional handle on fuel tank	+



Hydraulics System

Electronic control of working hydraulics	•
Lifting the ripper into parking position	•
Hydraulic kit for ripper	+
Hydraulic kit for winch	+
Variable flow pump, load-sensing	•
Oil filter in hydraulic tank	•
Blade shake feature	•
Blade quick drop function	•
Blade float function	•
Control block for 2 circuits	•



Travel Drive

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



Operator's Cab

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

- = Standard
- + = Option
- = not available
- 1) on demand at your dealer

Equipment

Electrical System

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

Undercarriage

Track pads with mud holes ²⁾	+
Track shoes, moderate service	•
Track shoes, heavy duty	1)
Undercarriage with rotary bushings FTB ²⁾	+
Track frame, closed	•
Sprocket segments, bolted	•
Master link, two-piece	•
Tracks, oil-lubricated	•
Track guide centre part	+
Track guide, front and rear	•
Track guard, full length	+
Undercarriage XL	•
Undercarriage LGP	+
Undercarriage with rigid bottom rollers	•
Sprocket segments with recesses	+

Attachments Front

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

Attachments Rear

Mounting plate for third-party equipment	+
Drawbar rear, rigid	+
Counterweight, rear (2,000 kg/ 4,409 lb)	+
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.

The Liebherr Group of Companies



Wide Product Range

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

Exceptional Customer Benefit

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

State-of-the-art Technology

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

Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since then, the family business has steadily grown to a group of more than 130 companies with nearly 44,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.com

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