

Technical data PR 736



Engine

Liebherr Diesel engine	D 934 EVO Emission regulations according to 2016/1628 Stage V, EPA/CARB Tier 4 Final
Rated power (net) ISO 9249 SAE J1349	160 kW / 217 HP 160 kW / 214 HP
Maximum power (net) ISO 9249 SAE J1349	175 kW / 238 HP 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 * Speed range 1: Speed range 2: Speed range 3:	Continuously variable 0 – 6.5 km/h / 4.0 mph (forward & reverse) 0 – 8.5 km/h / 5.3 mph (forward & reverse) 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 or ISO 5349-2:2015-12
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

	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"
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)

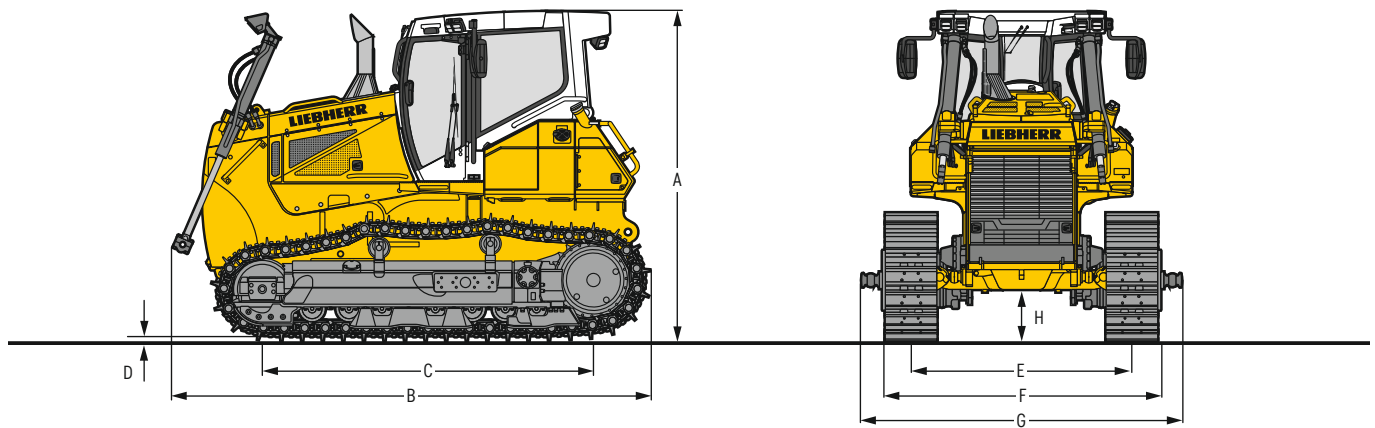
Refill capacities

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



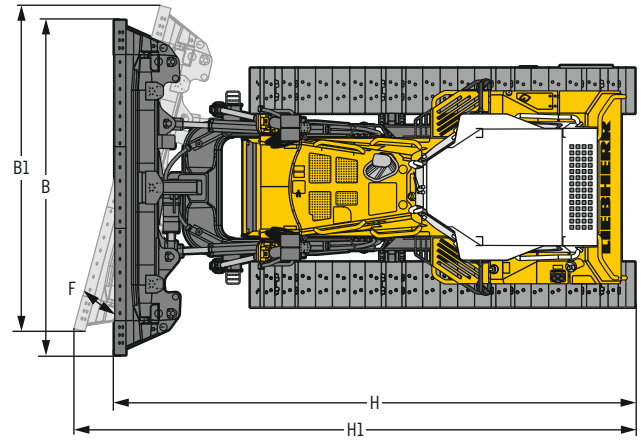
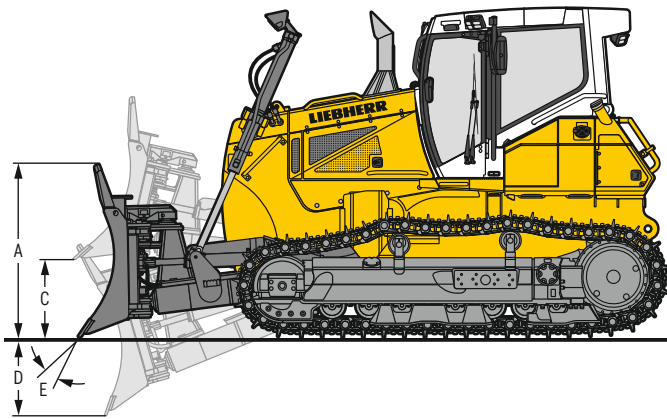
Dimensions

Push frame		inside	outside	inside	outside
Undercarriage		XL	XL	LGP	LGP
A Height over cab	mm	3,253 ²⁾		3,253 ²⁾	
	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.

²⁾ Transport shipping height increases with optional equipment: Topcon 3D Grade +155 mm, preparation for Trimble & Leica +130 mm, amber beacon/beacon for back-up alarm +230 mm, dust filter overpressure system for cab +535 mm, protective cover for air conditioning condenser +170 mm, branch deflector (sweeps) +165 mm, other equipment on request.

Front attachments PR 736



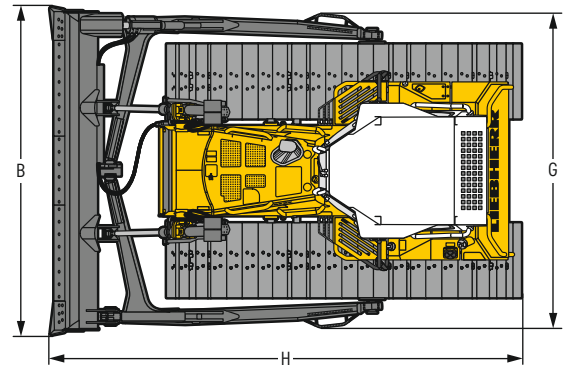
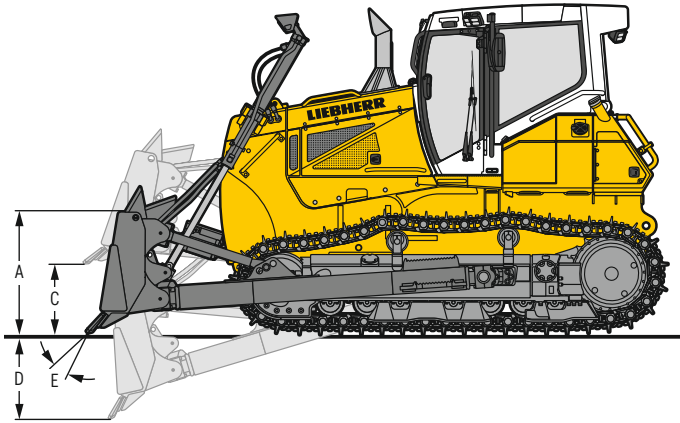
6-Way blade with inside mounted push frame

		6-way blade	6-way blade with hinged corner	6-way blade	6-way blade with hinged corner
Undercarriage		XL	XL	LGP	LGP
Blade capacity, ISO 9246	m ³	4.78	4.78	4.84	4.84
	yd ³	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"	4'1"	3'11"
D Digging depth	mm	665	665	661	661
	ft in	2'18"	2'18"	2'16"	2'16"
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"
F Track shoes 560 mm / 22"					
Operating weight ¹⁾	kg / lb	21,604 / 47,629	22,026 / 48,559	—	—
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.52 / 7.39	0.53 / 7.54	—	—
F Track shoes 610 mm / 24"					
Operating weight ¹⁾	kg / lb	21,743 / 47,935	22,165 / 48,865	—	—
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.48 / 6.83	0.49 / 6.97	—	—
F Track shoes 711 mm / 28"					
Operating weight ¹⁾	kg / lb	—	—	22,267 / 49,090	24,772 / 54,613
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	—	—	0.43 / 6.12	0.47 / 6.68
F Track shoes 812 mm / 32"					
Operating weight ¹⁾	kg / lb	—	—	22,546 / 49,705	23,040 / 50,794
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	—	—	0.38 / 5.40	0.39 / 5.55

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



Semi-U blade and straight blade

		Semi-U blade	Straight blade
Undercarriage		XL	LGP
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	1,216	1,225
	ft in	4'	4'
D Digging depth	mm	511	516
	ft in	1'67"	1'69"
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"
F Track shoes 560 mm / 22"			
Operating weight ¹⁾	kg / lb	21,165 / 46,661	
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.51 / 7.25	—
F Track shoes 610 mm / 24"			
Operating weight ¹⁾	kg / lb	21,306 / 46,972	
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.47 / 6.68	—
F Track shoes 812 mm / 32"			
Operating weight ¹⁾	kg / lb		22,536 / 49,683
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	—	0.38 / 5.40
F Track shoes 914 mm / 36"			
Operating weight ¹⁾	kg / lb		22,832 / 50,336
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	—	0.34 / 4.84
F Track shoes 965 mm / 38"			
Operating weight ¹⁾	kg / lb		22,984 / 50,671
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	—	0.32 / 4.55

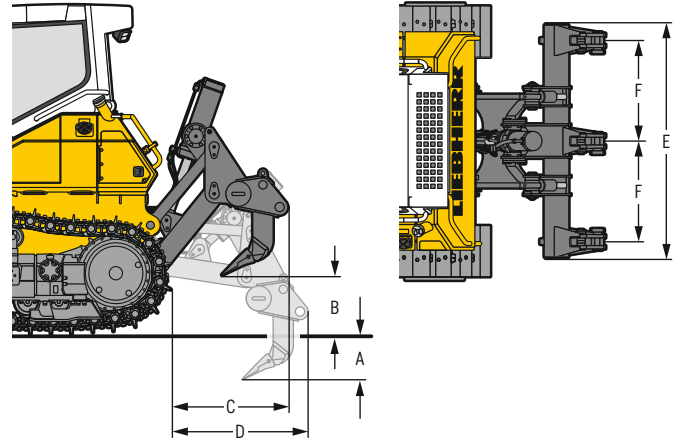
¹⁾ Including coolant and lubricants, 100% fuel, ROPS / FOPS cab, operator, semi-U or straight blade.

Rear attachments PR 736



3-Shank ripper

A Ripping depth (max. / min.)	mm	449 / 299
	ft in	1'5" / 1'
B Lifting height (max. / min.)	mm	738 / 588
	ft in	2'4" / 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
	ft in	1.97"
C Height of jaw	mm	580
	ft in	1'9"
D Ground clearance	mm	492
	ft in	1'6"
Jaw opening	mm	95
	ft in	3.74"
Weight	kg	280
	lb	617

