

Technical data PR 716



Engine

Liebherr Diesel engine	D 924 A7 Emission regulations according to 2016/1628 Stage V, EPA/CARB Tier 4 Final
Rated power (net) ISO 9249 SAE J1349	97 kW / 132 HP 97 kW / 130 HP
Maximum power (net) ISO 9249 SAE J1349	107 kW / 146 HP 107 kW / 144 HP
Rated speed	2,100 rpm
Displacement	4.5 l / 275 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 35°, on all sides
Operating voltage	24 V
Alternator	140 A
Starter	5.5 kW / 7 HP
Batteries	2x100 Ah / 12 V
Air cleaner	Dry-type air cleaner with vacuum indicator, main and safety elements
Cooling system	Combi radiator, comprising radiators for water, hydraulic fluid and charge air. Hydrostatic fan drive



Hydraulics

Hydraulic system	Open-center with load-sensing valve block
Pump type	Gear pump
Pump flow max.	97 l / min. / 25.6 gpm / 21.3 imp.gpm
Pressure limitation	220 bar / 3,190 psi
Control valve	3 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 – 10.0 km/h / 6.2 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
Control	Single joystick for all travel and steering functions. Optional: detented Joystick, with inching pedal



Operator's cab

Cab	Hydroelastic 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	39	39
Track rollers, each side	7	7
Carrier rollers, each side	1 (2*)	1 (2*)
Sprocket segments, each side	5	5
Track shoes, standard	560 mm / 22"	610 mm / 24"
Track shoes, optional		711 mm / 28" 762 mm / 30"

* Rotary bushing undercarriage FTB: 2 carrier rollers

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)	109 dB(A)

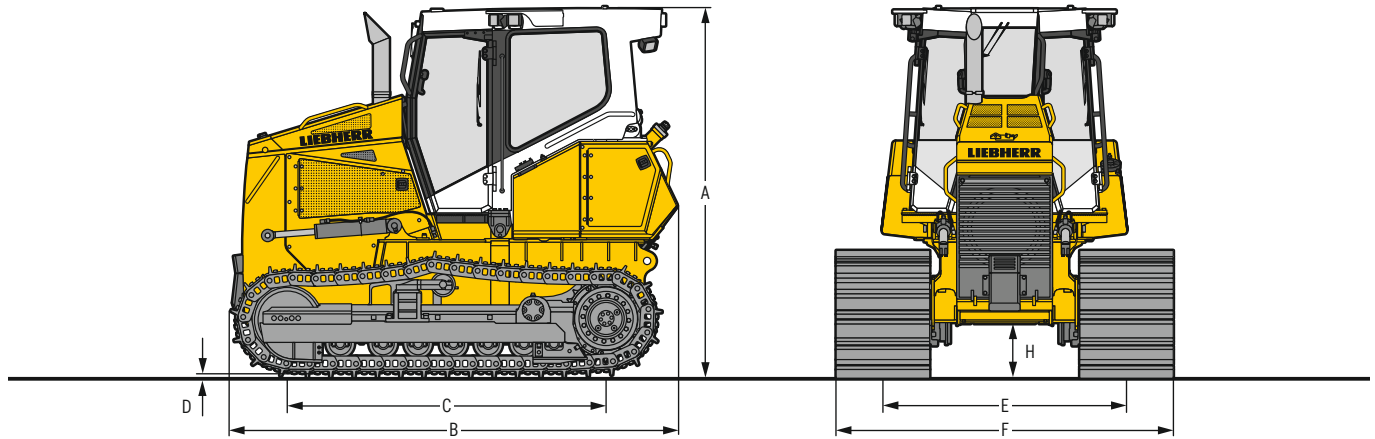
Refill capacities

Fuel tank	320 l / 84.5 gal / 70.4 Imp.gal
Diesel Exhaust Fluid (DEF) tank	45 l / 11.9 gal / 0.9 Imp.gal
Cooling system	24 l / 6.3 gal / 5.3 Imp.gal
Engine oil, with filter	19 l / 5 gal / 4.2 Imp.gal
Hydraulic tank	101 l / 26.7 gal / 22.2 Imp.gal
Final drive XL, LGP, each side	7.5 l / 2 gal / 1.6 Imp.gal

Drawbar pull

Max.	215 kN
at 1.5 km / h / 0.9 mph	190 kN
at 3.0 km / h / 1.9 mph	96 kN
at 6.0 km / h / 3.7 mph	49 kN
at 9.0 km / h / 5.6 mph	32 kN

Dimensions PR 716



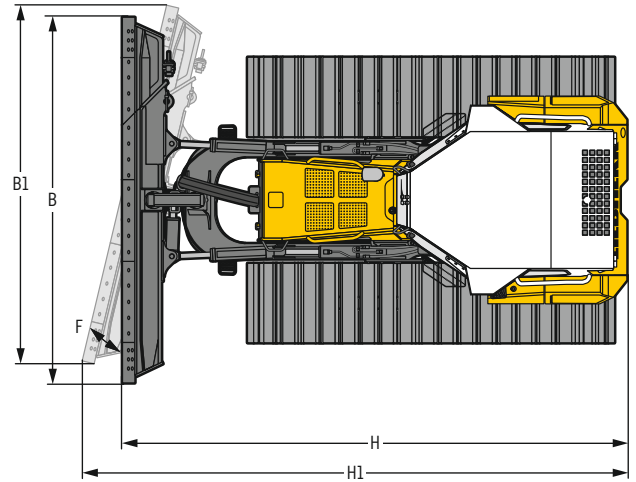
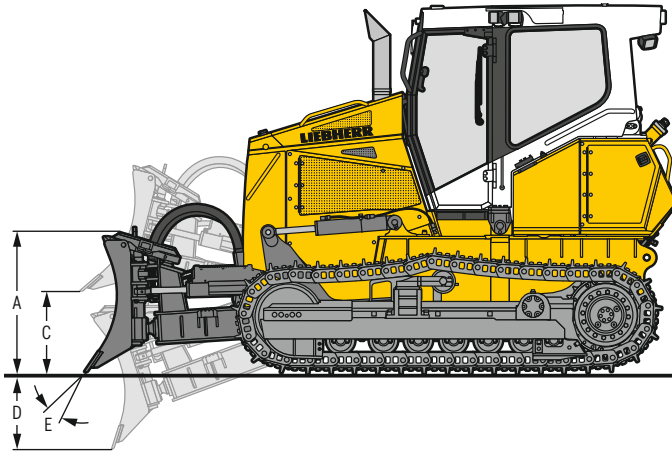
Dimensions

Undercarriage		XL	LGP
A Height over cab	mm	3,017 ²⁾	3,017 ²⁾
	ft in	9'11"	9'11"
B Overall length without attachments	mm	3,655	3,655
	ft in	12'	12'
C Length of track on ground	mm	2,605	2,605
	ft in	8'7"	8'7"
D Height of grousers	mm	55.5	55.5
	ft in	2.19"	2.19"
E Track gauge	mm	1,780	1,980
	ft in	5'10"	6'6"
H Ground clearance	mm	443	443
	ft in	1'5"	1'5"
F Track shoes 560 mm / 22"			
Width over tracks	mm / ft in	2,340 / 7'8"	—
Tractor shipping weight ¹⁾	kg / lb	11,559 / 25,483	—
F Track shoes 610 mm / 24"			
Width over tracks	mm / ft in	—	2,590 / 8'6"
Tractor shipping weight ¹⁾	kg / lb	—	11,718 / 25,834
F Track shoes 711 mm / 28"			
Width over tracks	mm / ft in	—	2,691 / 8'10"
Tractor shipping weight ¹⁾	kg / lb	—	11,933 / 26,308
F Track shoes 762 mm / 30"			
Width over tracks	mm / ft in	—	2,742 / 9'
Tractor shipping weight ¹⁾	kg / lb	—	12,042 / 26,548

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 716



6-Way blade with inside mounted push frame

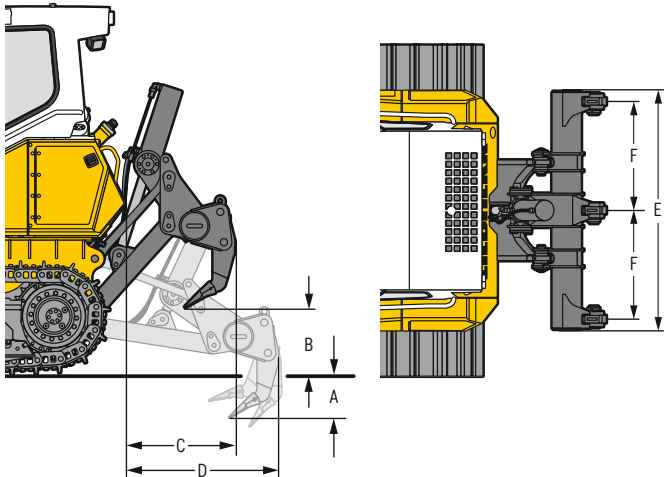
		6-way blade	6-way blade with hinged corner	6-way blade	6-way blade with hinged corner
Undercarriage		XL	XL	LGP	LGP
Blade capacity, ISO 9246	m ³	2.92	2.92	3.30	3.30
	yd ³	3.82	3.82	4.32	4.32
A Height of blade	mm	1,135	1,135	1,135	1,135
	ft in	3'9"	3'9"	3'9"	3'9"
B Width of blade	mm	3,145	3,145	3,510	3,510
	ft in	10'4"	10'4"	11'6"	11'6"
B1 Width of blade, angled	mm	2,896	2,896	3,226	3,226
	ft in	9'6"	9'6"	10'7"	10'7"
Transport width	mm	2,896	2,467	3,226	2,809
	ft in	9'6"	8'1"	10'7"	9'3"
C Lifting height	mm	1,055	1,055	1,055	1,055
	ft in	3'6"	3'6"	3'6"	3'6"
D Digging depth	mm	456	456	456	456
	ft in	1'6"	1'6"	1'6"	1'6"
E Blade pitch adjustment		5°	5°	5°	5°
F Blade angle adjustment		25°	25°	25°	25°
Max. blade tilt	mm	449	449	500	500
	ft in	1'6"	1'6"	1'8"	1'8"
H Overall length, blade straight	mm	4,850	4,850	4,850	4,850
	ft in	15'11"	15'11"	15'11"	15'11"
H1 Overall length, blade angled	mm	5,472	5,472	5,550	5,550
	ft in	17'11"	17'11"	18'3"	18'3"
F Track shoes 560 mm / 22"					
Operating weight ¹⁾	kg / lb	13,290 / 29,299	13,650 / 30,093	—	—
	kg / cm ² / psi	0.41 / 5.83	0.41 / 5.83	—	—
F Track shoes 610 mm / 24"					
Operating weight ¹⁾	kg / lb	—	—	13,506 / 29,776	13,876 / 30,591
	kg / cm ² / psi	—	—	0.38 / 5.40	0.39 / 5.55
F Track shoes 711 mm / 28"					
Operating weight ¹⁾	kg / lb	—	—	13,721 / 30,250	14,091 / 31,065
	kg / cm ² / psi	—	—	0.33 / 4.69	0.34 / 4.69
F Track shoes 762 mm / 30"					
Operating weight ¹⁾	kg / lb	—	—	13,830 / 30,490	14,200 / 31,306
	kg / cm ² / psi	—	—	0.31 / 4.41	0.32 / 4.55

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

Rear attachments PR 716

3-Shank ripper

A Ripping depth	mm	362
	ft in	1'2"
B Lifting height	mm	554
	ft in	1'10"
C Additional length, attachment raised	mm	886
	ft in	2'11"
D Additional length, attachment lowered	mm	1,147
	ft in	3'9"
E Overall beam width	mm	1,970
	ft in	6'6"
F Distance between shanks	mm	900
	ft in	2'11"
Weight	kg	993
	lb	2,189



Drawbar

A Additional length	mm	rigid
	ft in	172
B Socket pin diameter	mm	6.77"
	ft in	44.5
C Height of jaw	mm	1.75"
	ft in	480
D Ground clearance	mm	1'7"
	ft in	385
Jaw opening	mm	90
	ft in	1'3"
Weight	kg	157
	lb	346

