

Technical data PR 746



Engine

Liebherr Diesel engine	D 936 A7 Emission regulations according to ECE-R.96 Stage IIIa, 2016/1628 Stage V, EPA/CARB Tier 4 Final
Rated power (net) ISO 9249 SAE J1349	190 kW / 258 HP 190 kW / 254 HP
Maximum power (net) ISO 9249 SAE J1349	210 kW / 286 HP 210 kW / 281 HP
Rated speed	1,600 rpm
Displacement	10.5 l / 641 in ³
Design	6 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	2x180 Ah / 12 V
Air cleaner	Dry type air filter with vacuum indicator and automatic dust ejector, main and safety element
Cooling system	Combi radiator, comprising radiators for water and charge air. Hydrostatic fan drive



Hydraulics

Hydraulic system	Load sensing (demand-controlled)
Pump type	Swash plate piston pump
Pump flow, max.	256 l/min. / 67.6 gpm / 56.3 Imp.gpm
Pressure limitation	260 bar / 3,770 psi
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

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 system	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-disc brake, wear-free, automatically applied with neutral joystick position
Cooling system	Separate oil cooler, hydraulic fan drive
Filter system	Micro cartridge filter in replenishing circuit
Final drive	Combination spur gear with planetary gear, double-sealed (duo cone seals) with temperature indicator
Control	Single proportional joystick for all travel and steering functions



Operator's cab

Cab	Hydro-elastic 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 Whole-body vibrations	< 2.5 m/s ² , according with ISO 5349-1:2001 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	LGP
Design	Undercarriage with rigid bottom rollers	
Mounting	Via separate pivot shafts and equalizer bar	
Track chains	Lubricated, single-grouser shoes, tensioning via steel spring and grease tensioner	
Links, each side	41	44
Track rollers, each side	7	8
Carrier rollers, each side	2	2
Sprocket segments, each side	6	6
Track shoes, standard	610 mm / 24"	812 mm / 32"
Track shoes, optional	560 mm / 22" 711 mm / 28"	914 mm / 36"

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)	112 dB(A)

Refill capacities

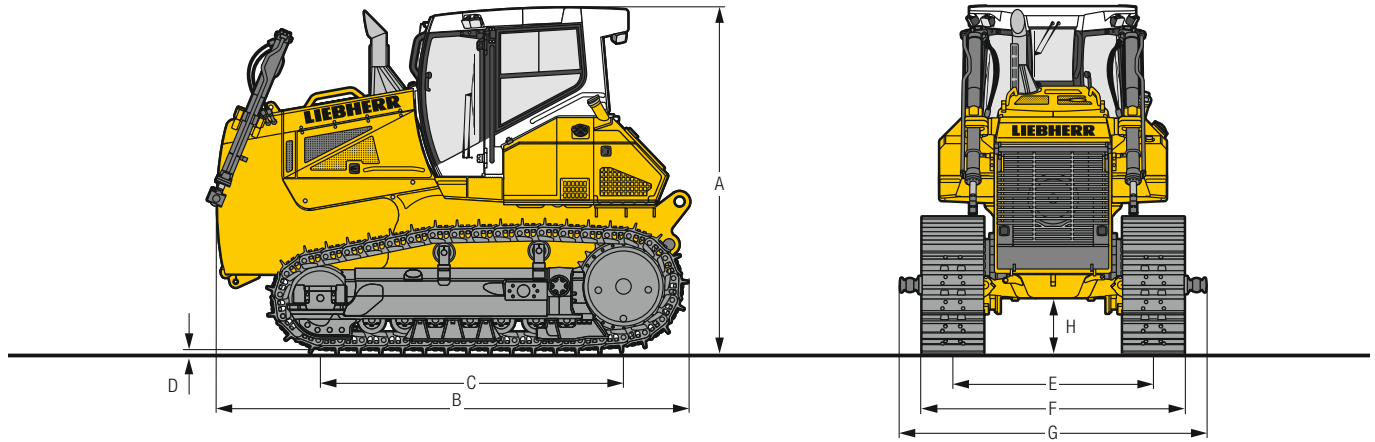
Fuel tank	505 l / 133.3 gal / 111.1 Imp.gal
Diesel Exhaust Fluid (DEF) tank¹⁾	56.5 l / 14.9 gal / 12.4 Imp.gal
Cooling system	49 l / 12.9 gal / 10.8 Imp.gal
Engine oil, with filter	43 l / 11.4 gal / 9.5 Imp.gal
Splitter box	8.5 l / 2.2 gal / 1.9 Imp.gal
Hydraulic tank	112 l / 29.6 gal / 24.6 Imp.gal
Final drive L, each side	17 l / 4.5 gal / 3.7 Imp.gal
Final drive LGP, each side	18 l / 4.8 gal / 4.0 Imp.gal

¹⁾ only for stage V/Tier 4f

Drawbar pull

Max.	436 kN
at 1.5 km/h / 0.9 mph	385 kN
at 3.0 km/h / 1.9 mph	190 kN
at 6.0 km/h / 3.7 mph	95 kN
at 9.0 km/h / 5.6 mph	63 kN

Dimensions PR 746



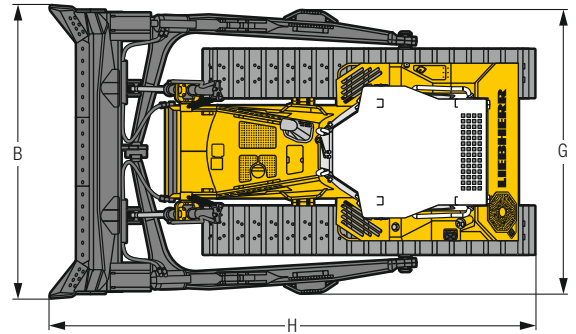
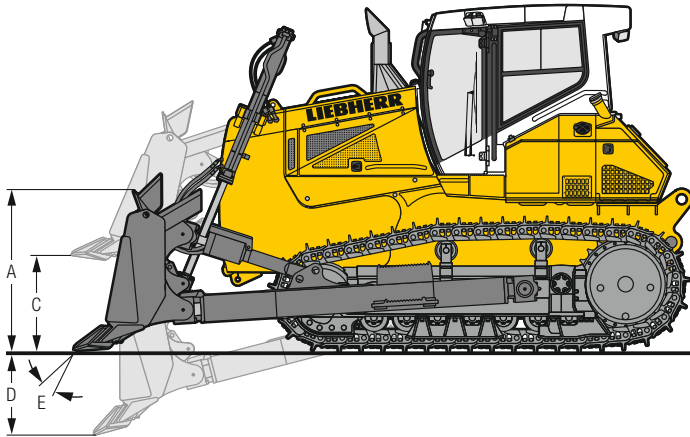
Dimensions

Undercarriage		L	LGP
A Height over cab	mm	3,435 ²⁾	3,435 ²⁾
	ft in	11'3"	11'3"
B Overall length without attachments	mm	4,671	4,671
	ft in	15'4"	15'4"
C Length of track on ground	mm	2,999	3,323
	ft in	9'10"	10'11"
D Height of grousers	mm	71.5	71.5
	ft in	2.81"	2.81"
H Ground clearance	mm	551	551
	ft in	1'10"	1'10"
E Track gauge	mm	1,980	2,180
	ft in	6'6"	7'2"
G Width over trunnions	mm	3,000	3,600
	ft in	9'10"	11'10"
F Track shoes 560 mm / 22"			
Width over tracks	mm / ft in	2,540 / 8'4"	-
Tractor shipping weight ¹⁾	kg / lb	21,644 / 47,717	-
F Track shoes 610 mm / 24"			
Width over tracks	mm / ft in	2,590 / 8'6"	-
Tractor shipping weight ¹⁾	kg / lb	21,998 / 48,497	-
F Track shoes 711 mm / 28"			
Width over tracks	mm / ft in	2,691 / 8'10"	-
Tractor shipping weight ¹⁾	kg / lb	22,705 / 50,056	-
F Track shoes 812 mm / 32"			
Width over tracks	mm / ft in	-	2,992 / 9'10"
Tractor shipping weight ¹⁾	kg / lb	-	22,769 / 50,197
F Track shoes 914 mm / 36"			
Width over tracks	mm / ft in	-	3,094 / 10'2"
Tractor shipping weight ¹⁾	kg / lb	-	23,344 / 51,465

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

²⁾ Transport shipping height increases with optional equipment: 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 746



Semi-U-Blade, mechanical angle blade and straight blade

		Semi-U blade	Mechanical angle blade ²⁾	Straight blade ²⁾
Undercarriage		L	L	LGP
Blade capacity, ISO 9246	m ³	7.20	4.33	6.00
	yd ³	9.42	5.67	7.85
A Height of blade	mm	1,544	1,130	1,320
	ft in	5'1"	3'8"	4'4"
B Width of blade	mm	3,690	4,620	4,518
	ft in	12'1"	15'2"	14'10"
Width of blade, angled	mm		4,198	
	ft in	-	3'8"	-
C Lifting height	mm	1,315	1,289	1,256
	ft in	4'1"	4'3"	4'1"
D Digging depth	mm	444	554	539
	ft in	1'5"	1'9"	1'9"
E Blade pitch adjustment		10°	-	10°
Blade angle adjustment		-	25°	-
Max. blade tilt	mm	462	672	466
	ft in	1'6"	2'2"	1'6"
G Width over push frame	mm	3,443	3,394	4,034
	ft in	11'4"	11'2"	13'3"
H Overall length, blade straight	mm	6,119	6,003	5,945
	ft in	20'1"	19'8"	19'6"
Overall length, blade angled	mm		6,919	
	ft in	-	22'8"	-
F Track shoes 560 mm / 22"				
Operating weight ¹⁾	kg / lb	25,886 / 57,069	26,018 / 57,360	-
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.67 / 9.53	0.68 / 9.67	-
F Track shoes 610 mm / 24"				
Operating weight ¹⁾	kg / lb	26,240 / 57,849	26,372 / 58,140	-
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.63 / 8.96	0.63 / 8.96	-
F Track shoes 711 mm / 28"				
Operating weight ¹⁾	kg / lb	26,947 / 59,408	27,079 / 59,699	-
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.55 / 7.82	0.56 / 7.97	-
F Track shoes 812 mm / 32"				
Operating weight ¹⁾	kg / lb	-	-	27,257 / 60,091
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	-	-	0.45 / 6.4
F Track shoes 914 mm / 36"				
Operating weight ¹⁾	kg / lb	-	-	27,832 / 61,359
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	-	-	0.40 / 5.69

¹⁾ Including coolant and lubricants, 100 % fuel, ROPS / FOPS cab, operator, Semi-U-, Mechanical Angle- or Straight Blade.

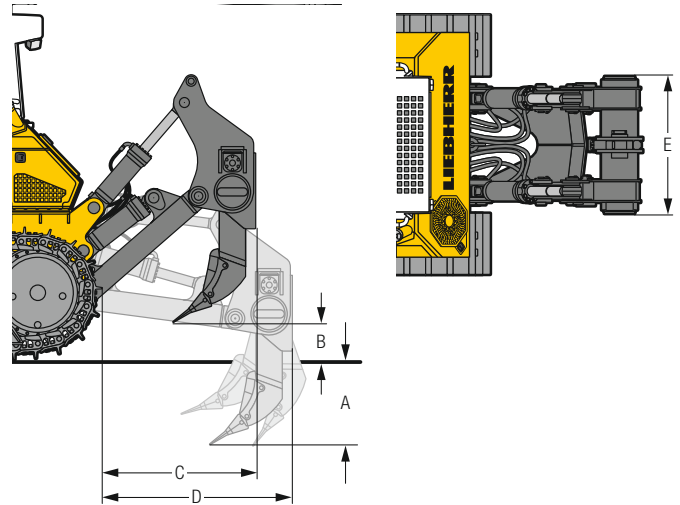
²⁾ Rear equipment or counterweight is recommended.

Rear attachments PR 746



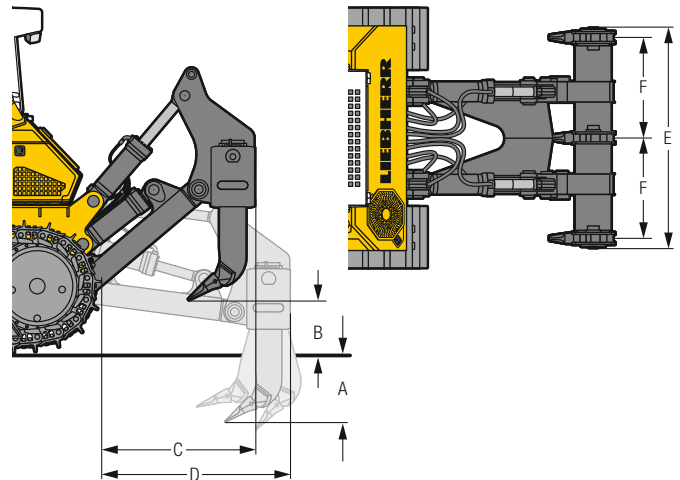
1-Shank ripper

Parallelogram		hydraulic pitch adjustment	
A Ripping depth (max. / min.)	mm	829 / 499	
	ft in	2'9" / 1'8"	
B Lifting height (max. / min.)	mm	709 / 379	
	ft in	2'4" / 1'3"	
C Additional length, attachment raised	mm	1,509	
	ft in	4'11"	
D Additional length, attachment lowered	mm	1,876	
	ft in	6'2"	
E Overall beam width	mm	1,360	
	ft in	4'6"	
F Distance between shanks	mm	-	
	ft in	-	
Max. pitch adjustment		25°	
Weight	kg	2,730	
	lb	6,019	



3-Shank ripper

Parallelogram		standard	hydraulic pitch adjustment
A Ripping depth (max. / min.)	mm	672 / 372	672 / 372
	ft in	2'2" / 1'3"	2'2" / 1'3"
B Lifting height (max. / min.)	mm	830 / 532	836 / 536
	ft in	2'9" / 1'9"	2'5" / 1'9"
C Additional length, attachment raised	mm	1,511	1,494
	ft in	4'11"	4'11"
D Additional length, attachment lowered	mm	1,862	1,861
	ft in	6'1"	6'1"
E Overall beam width	mm	2,184	2,184
	ft in	7'2"	7'2"
F Distance between shanks	mm	1,000	1,000
	ft in	3'3"	3'3"
Max. pitch adjustment		-	25°
Weight	kg	3,323	3,334
	lb	7,326	7,350



Drawbar

		rigid
A Additional length	mm	469
	ft in	1'6"
B Socket pin diameter	mm	50
	ft in	1.97"
C Height of jaw	mm	598
	ft in	2'
D Ground clearance	mm	490
	ft in	1'7"
Jaw opening	mm	95
	ft in	3.74"
Weight	kg	431
	lb	950

