Crawler Tractors

PR 716

Litronie

Generation

8

Operating Weight

13,300 - 15,800 kg/29,320-34,830 lb

Engine Output

97 kW/130 HP (SAE J1349) 97 kW/132 HP (ISO 9249) Stage V/Tier 4f



LIEBHERR

Technical Data

Engine

- Eligilie	
Liebherr Diesel engine	D 924 A7
	Emission regulations according to 97/68/EC,
	2004/26/EC Stage V, EPA/CARB Tier 4f
Rated power (net)	
ISO 9249	97 kW/132 HP
SAE J1349	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 I/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	2 x 100 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 I/min./25.6 gpm/21.3 lmp.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*	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:	0-10.0 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 C	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
Whole-body vibrations	0.24 – 1.31 m/s², complies with technical report ISO/TR 25398:2006
Measuring inaccuracy	According with standard EN 12096:1997

Undercarriage

	XL	LGP
Design	Undercarriage with	n 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

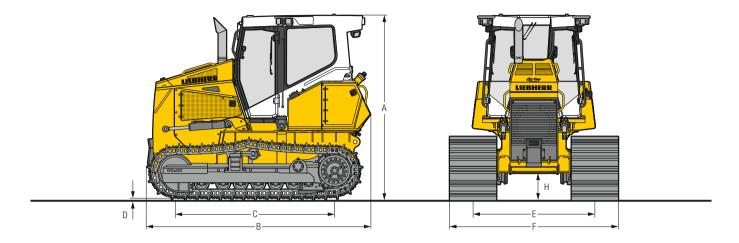
Operator sound exposur ISO 6396	re
L _{pA} (in the cab)	75 dB(A)
Exterior sound pressure 2000/14/EC	
L _{WA} (to the environment)	109 dB(A)

Refill Capacities

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

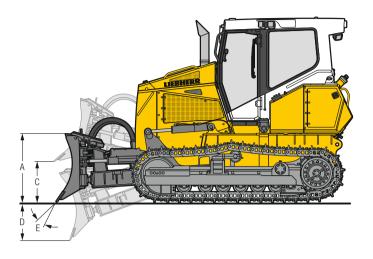


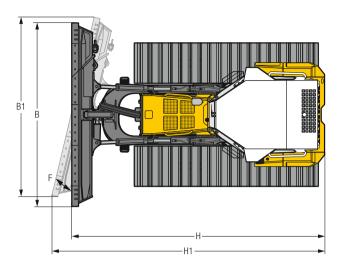
Dimensions

	Undercarriage		XL	LGP
Α	Height over cab	mm	3,017	3,017
		ft in	9'11"	9'11"
В	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"
Н	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

 $^{^{\}rm 1)}$ Including coolant and lubricants, 20 % fuel, ROPS/FOPS cab.

Front Attachments





6-Way Blade with Inside Mounted Push Frame

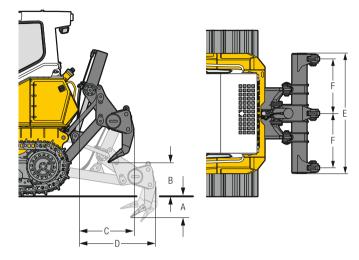
		6-way blade	6-way blade with hinged corner	6-way blade	6-way blade with hinged corner
Undercarriage		XL	XL	LGP	LGP
Blade capacity, ISO 9246	m³	2.92	2.92	3.30	3.30
	yd³	3.82	3.82	4.32	4.32
Height of blade	mm	1,135	1,135	1,135	1,135
	ft in	3'9"	3'9"	3'9"	3'9"
Width of blade	mm	3,145	3,145	3,510	3,510
	ft in	10'4"	10'4"	11'6"	11'6"
1 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"
Lifting height	mm	1,055	1,055	1,055	1,055
	ft in	3'6"	3'6"	3'6"	3'6"
Digging depth	mm	456	456	456	456
	ft in	1'6"	1'6"	1'6"	1'6"
Blade pitch adjustment		5°	5°	5°	5°
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"
Overall length, blade straight	mm	4,850	4,850	4,850	4,850
	ft in	15'11"	15'11"	15'11"	15'11"
1 Overall length, blade angled	mm	5,472	5,472	5,550	5,550
	ft in	17'11"	17'11"	18'3"	18'3"
Track shoes 560 mm/22"					
Operating weight 1)	kg/lb	13,290/29,299	13,650/30,093	_	-
Ground pressure 1)	kg/cm²/psi	0.46/6.54	0.47/6.68		
Track shoes 610 mm/24"					
Operating weight 1)	kg/lb	-	_	13,506/29,776	13,876/30,591
Ground pressure 1)	kg/cm²/psi			0.43/6.11	0.44/6.26
Track shoes 711 mm/28"					
Operating weight 1)	kg/lb	-	_	13,721/30,250	14,091/31,065
Ground pressure 1)	kg/cm²/psi			0.37/5.26	0.38/5.4
Track shoes 762 mm/30"					
Operating weight 1)	kg/lb	-	_	13,830/30,490	14,200/31,306
Ground pressure 1)	kg/cm ² /psi			0.35/4.98	0.36/5.12

 $^{^{\}scriptsize 1)}$ Including coolant and lubricants, 100 % fuel, ROPS/FOPS cab, operator, 6-way blade.

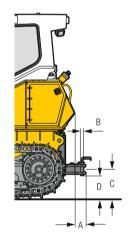
Rear Attachments

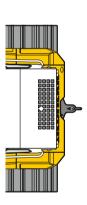
3-Shank Ripper A Ripping depth 362 1'2" 554 mm ft in B Lifting height mm 1'10" 886 2'11" 1,147 ft in C Additional length, attachment raised mm ft in D Additional length, attachment lowered mm ft in 3'9" 1,970 6'6" E Overall beam width mm ft in F Distance between shanks mm ft in 900 2'11" kg Ib Weight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

2,189



		rigid	
Α	Additional length	mm 172	
		ft in 6.77"	
В	Socket pin diameter	mm 44.5	
		ft in 1.75"	
C	Height of jaw	mm 480	
		ft in 1'7"	
D	Ground clearance	mm 385	
		ft in 1'3"	
	Jaw opening	mm 90	
		ft in 3.54"	
	Weight	kg 157	
	_	Ib 346	





Equipment

Base Machine

Additional handle on fuel tank	+
Air filter, dry type, dual step, with pre-filter	•
Auto Idle	+
Automatic engine shut-off	+
Automatic shield stabilisation + tilt control	•
Battery compartment, lockable	•
Coal arrangement	1)
Cold environment arrangement	1)
Cooling fan, hinged (with tool)	•
Cooling fan, hydraulically driven	•
Cooling fan, reversible	+
Diesel Exhaust Fluid (DEF) tank, lockable	•
Engine compartment doors, lockable	•
Engine compartment lighting	+
Forestry arrangement	1)
Fuel pre-filter	•
Fuel pre-filter, with electric heater	+
Fuel-water separator	•
Grade control ready kit	+
Hydraulic oil level control	+
LiDAT – Data transmission system	•
Liebherr diesel engine emission stage V/Tier 4f	•
Liebherr hydraulic oil, biologically degradable	+
Lugs for transport fixation, front	•
Radiator guard, hinged (with tool)	•
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	•



Hydraulic System

Automatic lifting of the rear ripper into 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	+
Oil filter in hydraulic tank	•

Travel Drive

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

Operator's Cab

	Operator's Gab	
Access	and exit step lighting	•
Air-con	ditioner	•
Armres	ts 3D adjustable	•
Automa	atic climate control	•
Cab he	ating	•
Coat ho	ook	•
	ight LED	•
Dust filt	ter system pressurised	+
	inguisher in the cab	+
Footres	et on the front console	+
Grab ha	andles at joysticks	+
	absorbing cab mounts	•
Operato	or's seat Comfort, air-suspended	•
	or's seat Premium, air-suspended	+
	rised cab	•
	ive grid, rear window	+
Radio		+
	reparation kit	+
	ounted mirror for ripper	+
	ew camera	+
	ew mirror, inside	•
	ew mirrors, external	+
	FOPS integrated	•
Safety	•	•
	window left	+
	window right	+
	s 12 V + 24 V	•
Storage		+
	e compartment, air-conditioned	•
	d, front	+
Tiltable		•
	controlled color display	•
	ield washer system	•
windsh	ield wipers front, rear, doors, with intermittent function	•

^{• =} Standard + = Option ¹) On demand at your dealer

RG-BK-OT LWT/VM-12264174-web-02.21_enUS-GB All illustrations and data may differ from standard equipment. Subject to change without notice.

Equipment

Electrical System

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

Undercarriage

Master link, two-piece	
Sprocket segments with recesses	
Sprocket segments, bolted	
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 LGP	
Undercarriage with rigid bottom rollers	
Undercarriage with rotary bushings FTB ²⁾	
Undercarriage XL	

• = Standard

- = Stanua - = Ontion
- 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.

Attachments Front

6-way blade	+
6-way blade with hinged corner	+
Blade pitch adjustment	+
Side wings for 6-way blade, bolt-on	+
Spill plate	+

Attachments Rear

/!!!!	
Counterweight, rear (1,000 kg/2,205 lb)	+
Drawbar rear, rigid	+
Mounting plate for third-party equipment	+
Ripper, 3 shanks	+
Ripper, 5 shank	+
Trailer hitch on rear ripper	+
Winch	+



This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65warnings.ca.gov.



Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- ► Always start and operate the engine in a well-ventilated area.
- ▶ If in an enclosed area, vent the exhaust to the outside.
- ▶ Do not modify or tamper with exhaust system.
- ▶ Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.