

Crawler Tractor

PR 734-4

Litronic®

Engine

150 kW / 204 HP

Stage IIIA / Tier 3

Operating Weight

17,960 – 22,100 kg

39,595 – 48,722 lb



LIEBHERR

Technical Data



Engine

Liebherr Diesel engine	D 934-L-A6 Emission regulations according to 2004/26/EC Stage IIIA and EPA/CARB Tier 3
Rated power (net)	
ISO 9249	150 kW/204 HP
SAE J1349	150 kW/201 HP
Maximum power (net)	
ISO 9249	175 kW/238 HP
SAE J1349	175 kW/235 HP
Rated speed	1,800 rpm
Displacement	7.0 l/427 in ³
Design	4 cylinder in-line engine, water-cooled, turbocharged, intercooled
Injection system	Direct fuel injection, pump-line-nozzle system, electronic control
Lubrication	Force-feed lubrication, engine lubrication guaranteed for inclinations up to 45°
Operating voltage	24 V
Alternator	80 A
Starter	6.6 kW/9 HP
Batteries	2 x 140 Ah/ 12 V
Air cleaner	Dry-type air cleaner with safety element, aspirated pre-cleaner, service gauge in cab
Cooling system	Combi radiator, comprising radiators for water, hydraulic fluid, charge air, fuel. Hydrostatic fan drive



Hydraulics

Hydraulic system	Open-center with load-sensing valve block
Pump type	Gear pump
Pump flow max.	222 l/min./ 48.8 gpm
Pressure limitation	200 bar
Control valve	2 segments, expandable to 3
Filter system	Return filter with magnetic rod
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 (4.8 km/h / 3.0 mph)
Speed range 2 (reverse):	0 – 6.5 km/h / 4.0 mph (7.8 km/h / 4.8 mph)
Speed range 3 (reverse):	0 – 10.0 km/h / 6.2 mph (10.0 km/h / 6.2 mph)
	* Factory settings. All speed ranges can be customized on the travel joystick
Electronic control	Electronic engine speed control automatically adjusts travel speed and drawbar pull to match changing load conditions
Steering	Hydrostatic
Service brake	Wear-free, hydrostatic (dynamic braking)
Parking brake / Emergency brake	Wet multiple-disc brakes, wear-free, automatically applied when joystick is in neutral position
Cooling system	Hydraulic oil cooler, integrated in combi radiator
Filter system	Micro cartridge filters
Final drive	Heavy-duty combination spur gear with planetary gear, double sealed with electronic seal-integrity indicator
Control	Single joystick for all travel and steering functions



Operator's Cab

Cab	Resiliently mounted cab with positive pressure ventilation, can be tilted with hand pump 40° to the rear (option). With integrated ROPS Rollover Protective Structure (EN ISO 3471) and FOPS Falling Objects Protective Structure (EN ISO 3449)
Operator's seat	Fully adjustable suspended seat
Monitoring	Combined analogue/LC display, automatic monitoring of operating conditions

Undercarriage

	L	XL	LGP
Mounting	Via separate pivot shafts and equalizer bar		
Track chains	Sealed and lubricated chains, single-grouser track shoes, track chain tension via steel spring and grease tensioner		
Links, each side	38	43	43
Track rollers, each side	6	7	7
Carrier rollers, each side	1	2	2
Sprocket segments, each side	5	5	5
Track shoes, standard	508 mm/20"	610 mm/24"	812 mm/32"
Track shoes, optional	610 mm/24"		865 mm/34"

Sound Levels

Operator sound exposure ISO 6396:2008	
L _{pA} (in the cab)	79 dB(A)
Exterior sound pressure 6395:1988	
L _{WA} (to the environment)	111 dB(A)

Refill Capacities

Fuel tank	400 l/ 88 Imp.gal
Cooling system	37 l/ 8.1 Imp.gal
Engine oil with oil filter	29 l/ 6.4 Imp.gal
Splitter box	3.1 l/ 0.7 Imp.gal
Hydraulic tank	144 l/31.7 Imp.gal
Final drive L, each side	19.5 l/ 4.3 Imp.gal
Final drive XL, each side	19.5 l/ 4.3 Imp.gal
Final drive LGP, each side	25.5 l/ 5.6 Imp.gal

Drawbar Pull

Max.	319 kN
at 1.5 km/h / 0.9 mph	281 kN
at 3.0 km/h / 1.9 mph	154 kN
at 6.0 km/h / 3.7 mph	77 kN
at 9.0 km/h / 5.6 mph	51 kN

Dimensions

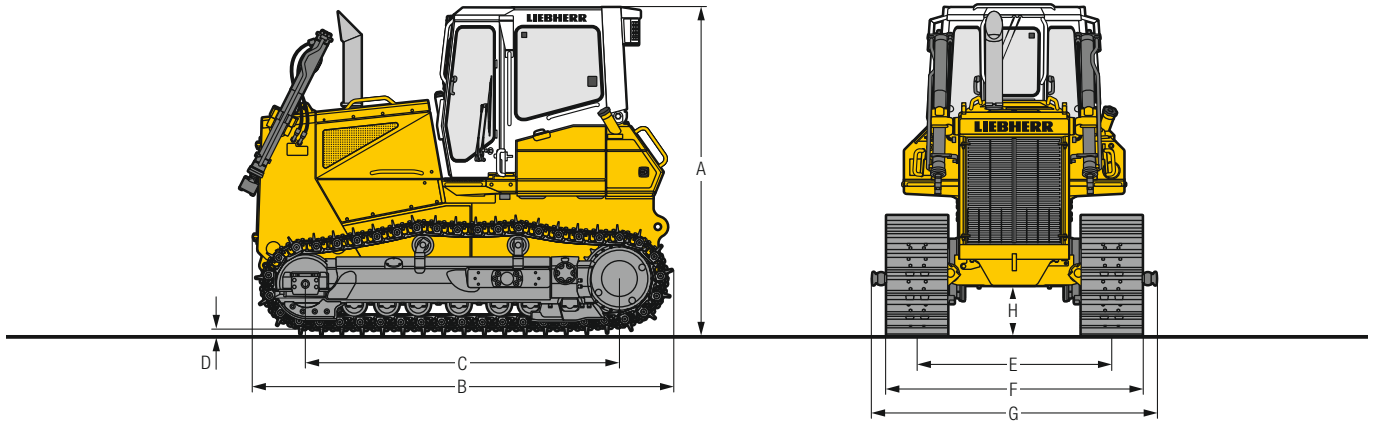


Image shows XL undercarriage

Dimensions

Undercarriage			L	XL	LGP
A Height over cab		mm	3,284	3,284	3,284
		ft in	10'9"	10'9"	10'9"
B Overall length without attachments		mm	4,170	4,170	4,170
		ft in	13'8"	13'8"	13'8"
C Length of track on ground		mm	2,630	3,136	3,136
		ft in	8'8"	10'3"	10'3"
D Height of grousers		mm	65	65	65
		ft in	2.56"	2.56"	2.56"
E Track gauge		mm	1,830	1,830	2,070
		ft in	6'	6'	6'9"
G Width over trunnions		mm	2,724	2,724	3,474
		ft in	8'11"	8'11"	11'5"
H Ground clearance		mm	497	497	497
		ft in	1'8"	1'8"	1'8"
F Track shoes 508 mm / 20"	Width over tracks	mm / ft in	2,338 / 7'8"	–	–
	Tractor shipping weight ¹⁾	kg / lb	15,291 / 33,711	–	–
F Track shoes 560 mm / 22"	Width over tracks	mm / ft in	2,390 / 7'10"	–	–
	Tractor shipping weight ¹⁾	kg / lb	15,391 / 33,931	–	–
F Track shoes 610 mm / 24"	Width over tracks	mm / ft in	2,440 / 8'	2,440 / 8'	–
	Tractor shipping weight ¹⁾	kg / lb	15,533 / 34,244	16,322 / 35,984	–
F Track shoes 812 mm / 32"	Width over tracks	mm / ft in	–	–	2,882 / 9'5"
	Tractor shipping weight ¹⁾	kg / lb	–	–	17,500 / 38,581
F Track shoes 865 mm / 34"	Width over tracks	mm / ft in	–	–	2,935 / 9'8"
	Tractor shipping weight ¹⁾	kg / lb	–	–	17,632 / 38,872

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

Front Attachments

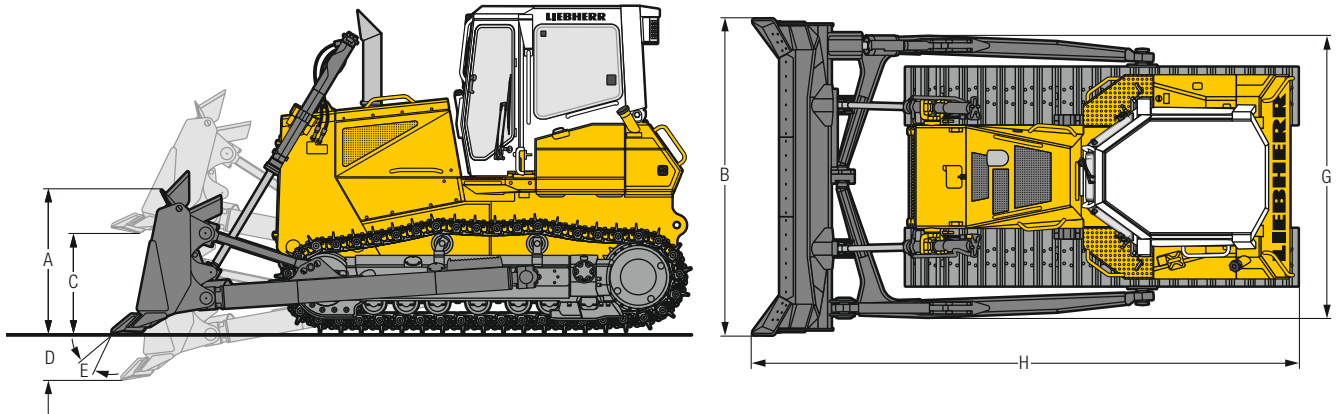


Image shows XL undercarriage



Semi-U Blade and Straight Blade

		Semi-U Blade	Straight Blade	Semi-U Blade	Straight Blade	Straight Blade
		L	L	XL	XL	LGP
Undercarriage						
Blade capacity, ISO 9246	m³	5.56	4.21	5.56	4.21	4.10
	yd³	7.27	5.51	7.27	5.51	5.36
A Height of blade	mm	1,400	1,300	1,400	1,300	1,150
	ft in	4'7"	4'3"	4'7"	4'3"	3'9"
B Width of blade	mm	3,372	3,420	3,372	3,420	3,994
	ft in	11'1"	11'3"	11'1"	11'3"	13'1"
C Lifting height	mm	1,179	1,182	1,208	1,210	1,219
	ft in	3'10"	3'11"	4'	4'	4'
D Digging depth	mm	524	525	548	549	552
	ft in	1'9"	1'9"	1'10"	1'10"	1'10"
E Blade pitch adjustment		10°	10°	10°	10°	10°
Tiltweg max.	mm	780	790	780	790	714
	ft in	2'7"	2'7"	2'7"	2'7"	2'4"
G Width over push frame	mm	3,000	3,000	3,000	3,000	3,750
	ft in	9'10"	9'10"	9'10"	9'10"	12'4"
H Max. blade tilt	mm	5,521	5,300	5,791	5,570	5,581
	ft in	18'1"	17'5"	19'	18'3"	18'4"
Track shoes 508 mm / 20"						
Operating weight ¹⁾	kg / lb	18,060 / 39,815	17,960 / 39,595	–	–	–
Ground pressure ¹⁾	kg/cm² / psi	0.68 / 9.67	0.67 / 9.53	–	–	–
Track shoes 560 mm / 22"						
Operating weight ¹⁾	kg / lb	18,160 / 40,036	18,060 / 39,815	–	–	–
Ground pressure ¹⁾	kg/cm² / psi	0.62 / 8.82	0.61 / 8.67	–	–	–
Track shoes 610 mm / 24"						
Operating weight ¹⁾	kg / lb	18,302 / 40,349	18,202 / 40,128	19,091 / 42,088	18,990 / 41,866	–
Ground pressure ¹⁾	kg/cm² / psi	0.57 / 8.11	0.57 / 8.11	0.50 / 7.11	0.49 / 6.97	–
Track shoes 812 mm / 32"						
Operating weight ¹⁾	kg / lb	–	–	–	–	20,066 / 44,238
Ground pressure ¹⁾	kg/cm² / psi	–	–	–	–	0.40 / 5.69
Track shoes 865 mm / 34"						
Operating weight ¹⁾	kg / lb	–	–	–	–	20,198 / 44,529
Ground pressure ¹⁾	kg/cm² / psi	–	–	–	–	0.37 / 5.26

¹⁾ Includes coolant and lubricants, 20% fuel, ROPS/FOPS cab, operator, semi-U blade or straight blade.

Front Attachments

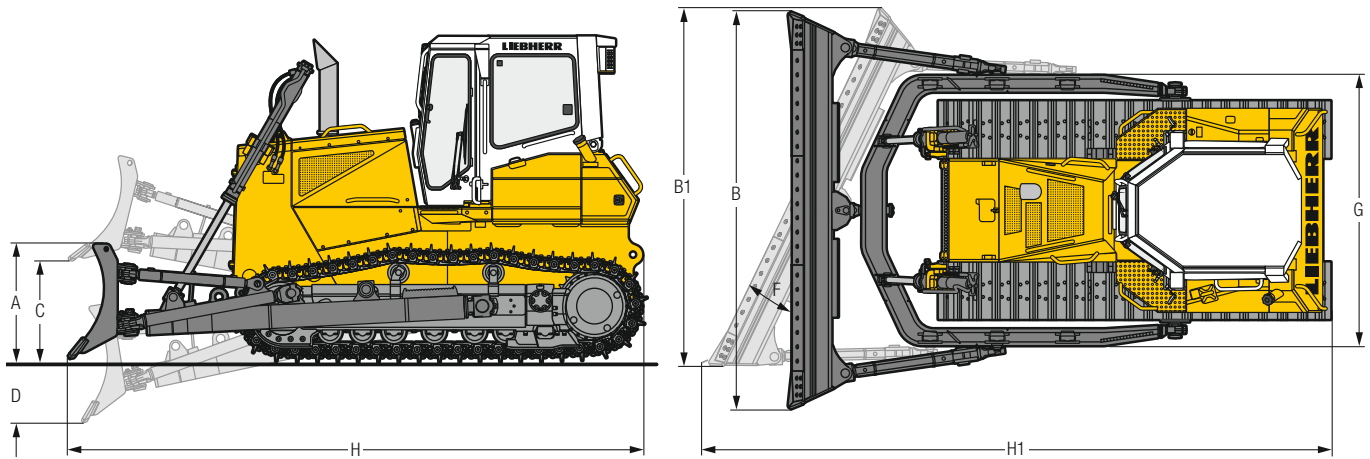


Image shows XL undercarriage



Mechanical Angle Blade*

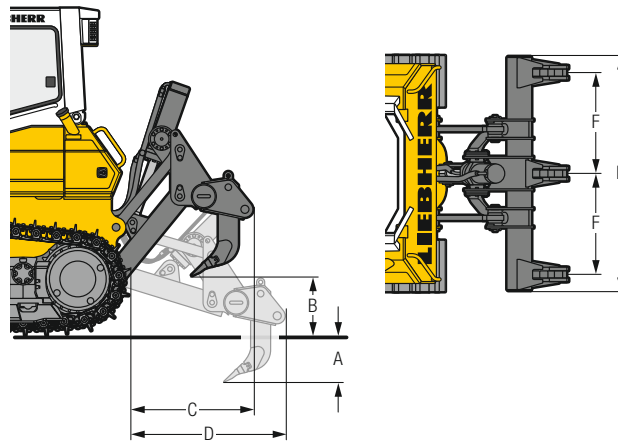
		without tilt function	XL	with tilt function ²⁾
Undercarriage				
Blade capacity, ISO 9246				
	m³	3.80		3.80
	yd³	4.97		4.97
A	Height of blade			
	mm	1,120		1,120
	ft in	3'8"		3'8"
B	Width of blade			
	mm	4,240		4,240
	ft in	13'11"		13'11"
B1	Transport width			
	mm	3,850		3,850
	ft in	12'8"		12'8"
C	Lifting height			
	mm	1,212		1,212
	ft in	4'		4'
D	Digging depth			
	mm	644		644
	ft in	2'1"		2'1"
F	Blade angle adjustment			
		25°		25°
	Max. blade tilt			
	mm	–		672
	ft in			2'2"
G	Width over push frame			
	mm	2,890		2,890
	ft in	9'6"		9'6"
H	Overall length, blade straight			
	mm	5,786		5,786
	ft in	19'		19'
H1	Overall length, blade angled			
	mm	6,610		6,610
	ft in	21'8"		21'8"
Track shoes 508 mm / 20"				
	Operating weight ¹⁾	–		–
	Ground pressure ¹⁾			
Track shoes 560 mm / 22"				
	Operating weight ¹⁾	–		–
	Ground pressure ¹⁾			
Track shoes 610 mm / 24"				
	Operating weight ¹⁾	19,448 / 42,875		19,548 / 43,096
	Ground pressure ¹⁾	0.51 / 7.25		0.51 / 7.25

¹⁾ Includes coolant and lubricants, 20% fuel, ROPS/FOPS cab, operator, mechanical angle blade.

²⁾ Mechanical angle blade with tilt function is subject to lead time – please enquire with your Liebherr dealer.

* Counterweight or rear attachment is recommended for improved performance and balance.

Rear Attachments



3-Shank Ripper

Parallelogram			
A	Ripping depth (max./min.)	mm	522/372
		ft in	1'9"/1'3"
B	Lifting height (max./min.)	mm	665/515
		ft in	2'2"/1'8"
C	Additional length, attachment raised	mm	1,199
		ft in	3'11"
D	Additional length, attachment lowered	mm	1,531
		ft in	5'
E	Overall beam width	mm	2,320
		ft in	7'7"
F	Distance between shanks	mm	1,000
		ft in	3'3"
	Weight	kg	1,920
		lb	4,233

Equipment



Base Machine

Air filter with automatic dust ejector	•
Air filter, dry-type, dual step	•
Battery compartment, lockable	•
Belly pans, heavy duty	•
Coal equipment	+
Cold kit	+
Engine cover, perforated	•
Engine door, hinged, lockable	•
Engine doors, perforated	•
Fan guard	•
Fan, hydraulically driven	•
Fan, hydraulically driven, reversible	+
Forestry equipment	+
Fuel water separator	•
Fuel water separator with electric heater	+
Landfill equipment	+
LiDAT – Liebherr data transmission system	+
Liebherr Diesel engine	•
Liebherr hydraulic oil, Plus Arctic	+
Lugs for crane lifting, front	•
Radiator guard	•
Radiator, wide-meshed	•
Sealing, cab – base machine	+
Tank guard, bottom	+
Tank guard, complete	+
Toolkit, extended	+
Tow switch	•
Towing hitch rear	+
Woodchip equipment	+



Hydraulic System

Control valve for 2 circuits	•
Float position blade	•
Hydraulic servo control	•
Hydraulic tank oil level control	+
Hydraulics, ripper	+
Hydraulics, winch	+
Oil filter in hydraulic tank	•



Travel Drive

Control, single joystick	•
Electronic control	•
Emergency stop	•
Final drives planetary gear	•
Function control, automatic	•
Hydrostatic travel drive	•
Inching brake pedal	+
Load limit control, electronic	•
Oil cooler	•
Parking brake, automatic	•
Safety lever	•
Travel control, 3 speed ranges	•



Operator's Cab

Air conditioning	+
Armrests 3D adjustable	•
Coat hook	•
Dome light	•
External mirrors	+
Fire extinguisher	+
Forest sweeps	+
Operator's seat, 6-way adjustable	•
Operator's seat, air-suspended	+
Operator's seat, mechanically suspended	•
Pressurised cab	•
Protective grids for rear windows	+
Protective grids for windows, all-around	+
Radio	+
Radio preparation	+
Rear-view mirror, inside	•
ROPS/FOPS	•
Safety glass, tinted	•
Sliding window, left	+
Sliding window, right	+
Storage compartment	•
Tiltable cab	+
Warm water heating	•
Windshield washer system	•
Windshield wipers front, rear, on the doors, with intermittent function	•

• = Standard
+ = Option



Electrical System

Additional lights front, 2 units	+
Additional lights rear, 2 units	+
Additional lights, on lift cylinders	+
Alternator 80 A	•
Back-up alarm, acoustic	+
Batteries, cold start, 2 units	•
Battery main switch, mechanical	•
Beacon	+
Horn	•
On-board system, 24 V	•
Starter 6.6 kW	•
Working lights front, 2 units	•
Working lights rear, 2 units	•



Undercarriage

Coal deflector at sprocket	+
Final drive seal guards	+
Master link, two-piece	•
Pivot shaft, separate	•
Sprocket segments, bolted	•
Sprocket segments, with recesses	+
Track frame, closed	•
Track frames, oscillating	•
Track guard, full length	+
Track guide centre part	+
Track pads with mud holes	+
Track shoes ESS	+
Tracks oil-lubricated	•
Tracks, grease-lubricated	+
Undercarriage L	+
Undercarriage LGP	+
Undercarriage XL	+

• = Standard

+ = Option

¹⁾ Undercarriage L

²⁾ Undercarriage XL

³⁾ Undercarriage LGP



Attachments Front

Coal-U blade ^{1) 2)}	+
Mechanical angle blade ²⁾	+
Semi-U blade ^{1) 2)}	+
Spill plate for blade	+
Straight blade ^{1) 2) 3)}	+
Trash rack	+
Wear plates for push frame	+
Woodchip U-blade ^{1) 2)}	+



Attachments Rear

Counterweight, rear	+
Drawbar rear, rigid	+
Lifting lugs, rear	+
Mounting plate for external equipment	+
Ripper, 1 shank	+
Ripper, 3 shanks	+
Winch	+



Control and Warning Lights

Control engine coolant temperature (analogue)	•
Control fuel level (analogue)	•
Control travel speed range (digital)	•
Hour meter (analogue)	•
Hydraulic oil temperature gauge	+
Indicator light Diesel engine preheater	•
Indicator light float position blade	•
Indicator light parking brake	•
Main warning light	•
Warning light air filter	•
Warning light battery charging	•
Warning light diesel engine	•
Warning light electronic travel control system	•
Warning light fan control	•
Warning light final drive seal, each side	•
Warning light fuel water separator	•
Warning light hydraulic oil level	+
Warning light hydraulic oil temperature	•
Warning light oil return filter	•
Warning light pump replenishing pressure	•

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 that time, the enterprise has steadily grown to a group of more than 130 companies with over 41,000 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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