
PR 766 Litronic

LIEBHERR

Crawler Tractor



Generation

6

Operating Weight

46,225 – 54,187 kg
101,909 – 119,462 lb

Engine Output

310 kW / 416 HP
(SAE J1349)
310 kW / 422 HP
(ISO 9249)
Stage IIIa / Tier 3

Technical Data



Engine

Liebherr Diesel engine	D 9508 A7-03 Emission regulations according to 97/68/EC, 2004/26/EC Stage IIIa, EPA/CARB Tier 3
Rated power (net) ISO 9249 SAE J1349	310 kW / 422 HP 310 kW / 416 HP
Maximum power (net) ISO 9249 SAE J1349	360 kW / 490 HP 360 kW / 483 HP
Rated speed	1,600 1/min.
Displacement	16.2 l
Design	8 cylinder V-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° (lateral slope) and up to 45° (longitudinal slope)
Operating voltage	24 V
Alternator	140 A
Starter	7.8 kW / 11 HP
Batteries	4 x 95 Ah / 12 V
Air cleaner	Dry-type air cleaner with pre-cleaner, main and safety elements, control light in the operator's cab
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.	352 l/min. / 92.9 gpm / 77.4 Imp.gpm
Pressure limitation	280 bar / 4,060 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, Control

Transmission system	Infinitely variable hydrostatic travel drive, independent drive for each track
Travel speed* Speed range 1 (reverse): Speed range 2 (reverse): Speed range 3 (reverse):	Continuously variable 0 - 4.0 km/h / 2.5 mph (4.5 km/h / 2.8 mph) 0 - 6.0 km/h / 3.7 mph (8.0 km/h / 4.9 mph) 0 - 11.0 km/h / 6.8 mph (11.0 km/h / 6.8 mph) *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), temperature controlled
Control	Proportional single joystick for all travel and steering functions. Optional: detented Joystick



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 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

Design	Undercarriage with bogie suspension
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	44
Track rollers, each side	7
Carrier rollers, each side	2
Sprocket segments, each side	3
Track shoes, standard	610 mm / 24"
Track shoes, optional	660 mm / 26" 711 mm / 28" 760 mm / 30"
Track shoe type	SESS (Super Extrem Service Shoes)

Sound Levels

Operator sound exposure ISO 6396	
L_{pA} (in the cab)	79 dB(A)
Exterior sound pressure 2000/14/EC	
L_{WA} (to the environment)	114 dB(A)

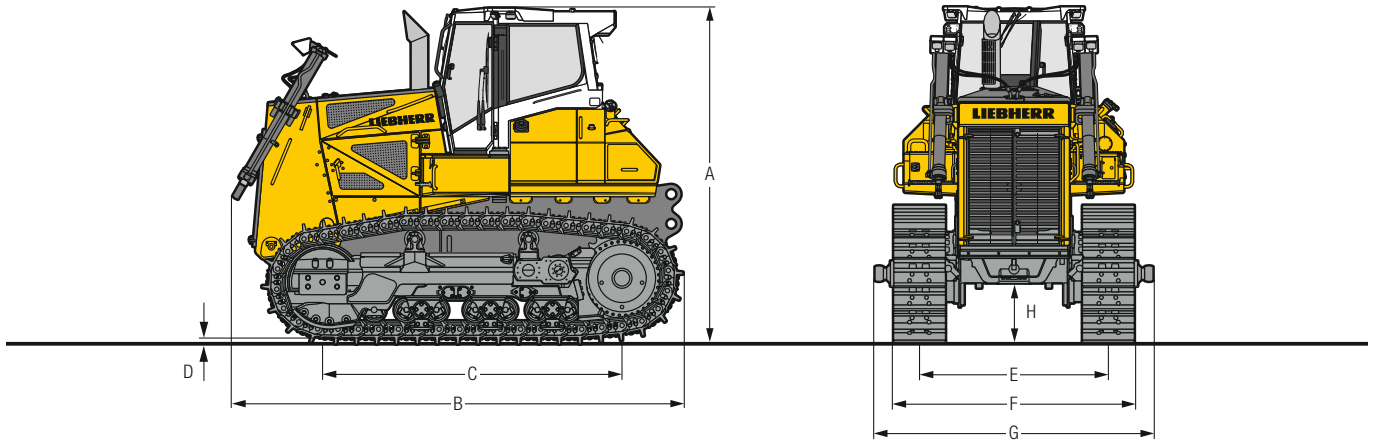
Refill Capacities

Fuel tank	840 l / 221.8 gal / 184.8 Imp.gal
Cooling system	90 l / 23.8 gal / 19.8 Imp.gal
Engine oil, with filter	65 l / 17.2 gal / 14.3 Imp.gal
Hydraulic tank	275 l / 72.6 gal / 60.5 Imp.gal
Final drive, each side	25.5 l / 6.7 gal / 5.6 Imp.gal

Drawbar Pull

Max.	694 kN
at 1.5 km/h / 0.9 mph	612 kN
at 3.0 km/h / 1.9 mph	318 kN
at 6.0 km/h / 3.7 mph	157 kN
at 9.0 km/h / 5.6 mph	106 kN

Dimensions

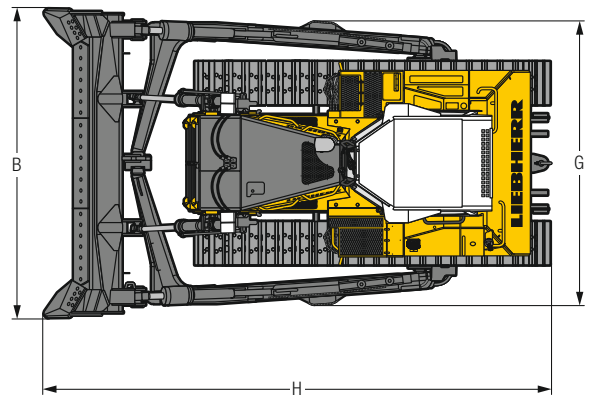
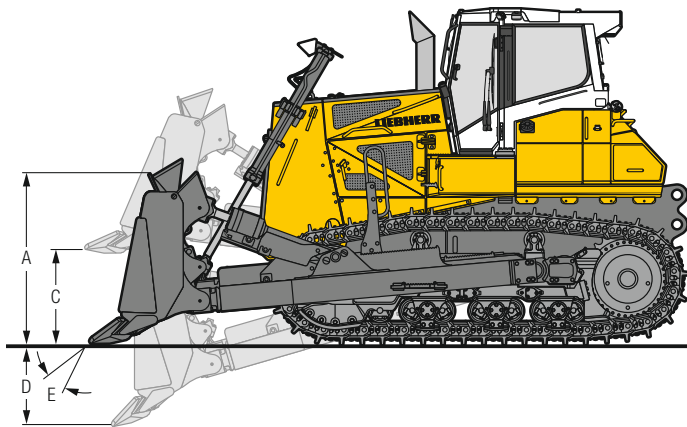


Dimensions

Undercarriage		bogie suspension	double bogie suspension
A Height over cab	mm	3,970	3,970
	ft in	13'0"	13'0"
B Overall length without attachments	mm	5,055	5,055
	ft in	16'7"	16'7"
C Length of track on ground	mm	3,550	3,550
	ft in	11'8"	11'8"
D Height of grousers	mm	84	84
	ft in	3.31"	3.31"
H Ground clearance	mm	680	680
	ft in	2'3"	2'3"
E Track gauge	mm	2,240	2,240
	ft in	7'4"	7'4"
G Width over trunnions	mm	3,263	3,263
	ft in	10'8"	10'8"
F Track shoes 610 mm / 24"	mm / ft in	2,850 / 9'4"	2,850 / 7'4"
	kg / lb	37,500 / 82,673	38,400 / 84,657
F Track shoes 660 mm / 26"	mm / ft in	2,900 / 9'6"	2,900 / 9'6"
	kg / lb	37,763 / 83,253	38,663 / 85,237
F Track shoes 711 mm / 28"	mm / ft in	2,951 / 9'8"	2,951 / 9'8"
	kg / lb	38,130 / 84,062	39,030 / 86,046
F Track shoes 760 mm / 30"	mm / ft in	3,000 / 9'10"	3,000 / 9'10"
	kg / lb	38,402 / 84,662	39,302 / 86,646

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

Front Attachments

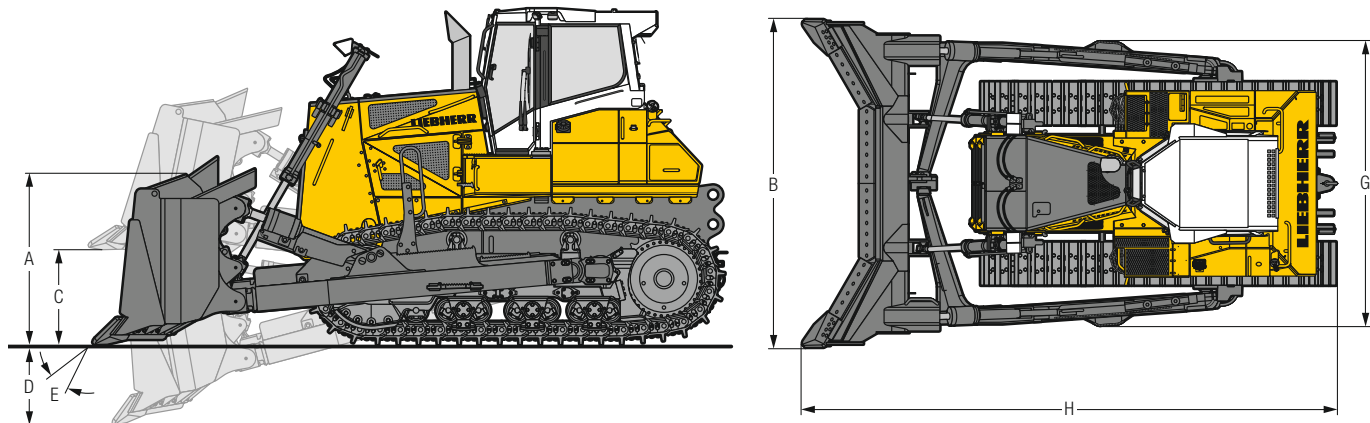


Semi-U-Blade

Undercarriage		bogie suspension	double bogie suspension
Blade capacity, ISO 9246	m ³	13.6	13.6
	yd ³	17.79	17.79
A Height over cab	mm	1,950	1,950
	ft in	6'5"	6'5"
B Width of blade	mm	4,370	4,370
	ft in	14'4"	14'4"
C Lifting height	mm	1,480	1,480
	ft in	4'10"	4'10"
D Digging depth	mm	647	647
	ft in	2'1"	2'1"
E Blade pitch adjustment		9,4°	9,4°
Max. blade tilt	mm	1,028	1,028
	ft in	3'4"	3'4"
G Width over push frame	mm	3,973	3,973
	ft in	13'0"	13'0"
H Overall length, blade straight	mm	7,022	7,022
	ft in	23'0"	23'0"
F Track shoes 610 mm / 24"			
Operating weight	mm / ft in	46,225 / 101,909	47,125 / 103,893
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.93 / 13.23	0.95 / 13.51
F Track shoes 660 mm / 26"			
Operating weight	mm / ft in	46,488 / 102,488	47,388 / 104,473
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.87 / 12.37	0.88 / 12.51
F Track shoes 711 mm / 28"			
Operating weight	mm / ft in	46,855 / 103,297	47,755 / 105,282
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.81 / 11.52	0.83 / 11.81
F Track shoes 760 mm / 30"			
Operating weight	mm / ft in	47,127 / 103,897	48,027 / 105,881
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.76 / 10.81	0.78 / 11.10

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

Front Attachments



U-Blade

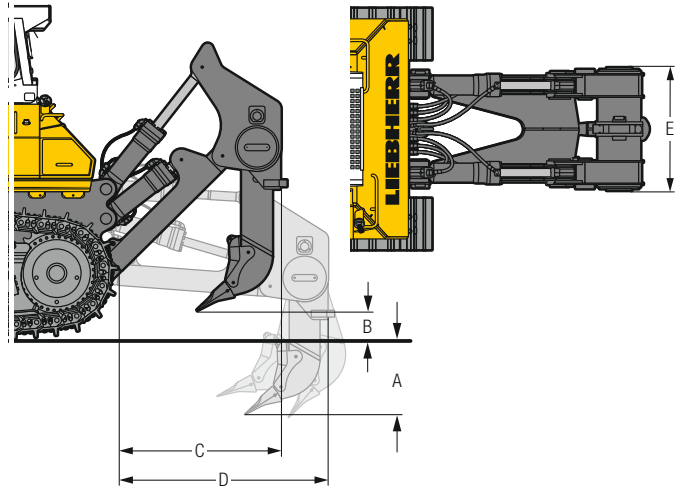
Undercarriage		bogie suspension	double bogie suspension
Blade capacity, ISO 9246	m ³ yd ³	17.0 22.23	17.0 22.23
A Height over cab	mm ft in	1,950 6'5"	1,950 6'5"
B Width of blade	mm ft in	4,650 15'3"	4,650 15'3"
C Lifting height	mm ft in	1,480 4'10"	1,480 4'10"
D Digging depth	mm ft in	647 2'1"	647 2'1"
E Blade pitch adjustment		9.4°	9.4°
Max. blade tilt	mm ft in	1,094 3'7"	1,094 3'7"
G Width over push frame	mm ft in	3,973 13'0"	3,973 13'0"
H Overall length, blade straight	mm ft in	7,549 24'9"	7,549 24'9"
F Track shoes 610 mm / 24"			
Operating weight ¹⁾	mm / ft in	47,075 / 103,782	47,975 / 105,767
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.95 / 13.51	0.97 / 13.79
F Track shoes 660 mm / 26"			
Operating weight ¹⁾	mm / ft in	47,338 / 104,362	48,238 / 106,346
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.88 / 12.51	0.90 / 12.80
F Track shoes 711 mm / 28"			
Operating weight ¹⁾	mm / ft in	47,705 / 105,171	48,605 / 107,156
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.82 / 11.66	0.84 / 11.95
F Track shoes 760 mm / 30"			
Operating weight ¹⁾	mm / ft in	47,977 / 105,771	48,877 / 107,755
Ground pressure, ISO16754 ¹⁾	kg/cm ² / psi	0.78 / 11.10	0.79 / 11.24

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

Rear Attachments

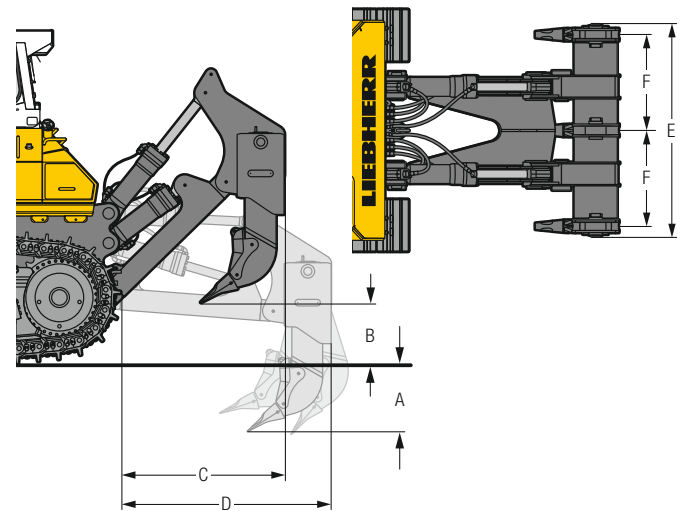
1-Shank Ripper

Parallelogram		hydraulic pitch adjustment	
A Ripping depth (max. / min.)	mm	1,300 / 476	
	ft in	4'3" / 1'7"	
B Lifting height (max. / min.)	mm	1,000 / 260	
	ft in	3'3" / 0'10"	
C Additional length, attachment raised	mm	1,894	
	ft in	6'3"	
D Additional length, attachment lowered	mm	2,494	
	ft in	8'2"	
E Overall beam width	mm	1,400	
	ft in	4'7"	
F Distance between shanks	mm	-	
	ft in	-	
Max. pitch adjustment		31°	
Maximum penetration force	kN	166.9	
	lbf	37,507	
Max. pryout force	kN	291.5	
	lbf	65,509	
Weight	kg	4,786	
	lb	10,551	



3-Shank Ripper

Parallelogram		hydraulic pitch adjustment	
A Ripping depth (max. / min.)	mm	900 / 520	
	ft in	2'11" / 1'8"	
B Lifting height (max. / min.)	mm	1,038 / 658	
	ft in	3'5" / 2'2"	
C Additional length, attachment raised	mm	1,894	
	ft in	6'3"	
D Additional length, attachment lowered	mm	2,494	
	ft in	8'2"	
E Overall beam width	mm	2,494	
	ft in	8'2"	
F Distance between shanks	mm	1,130	
	ft in	3'8"	
Max. pitch adjustment		31°	
Maximum penetration force	kN	176.4	
	lbf	39,642	
Max. pryout force	kN	291.5	
	lbf	65,509	
Weight	kg	6,160	
	lb	13,580	



Equipment



Base Machine

Auto Idle	•
Automatic engine shut-off	•
Battery compartment, lockable	•
Coal equipment	•
Cold environment equipment	•
Dry type air filter dual step with automatic dust ejector	•
Engine compartment doors, lockable	•
Engine compartment lighting	•
Fan hinged, front	•
Fan rigid, rear	•
Fan, hydraulically driven	•
Fan, reversible	•
Forestry equipment	1)
Fuel water separator, electric heater and fuel water separator	•
Grade control ready kit	1)
Hydraulic oil level control	•
Landfill equipment	•
LiDAT - Data transmission system	•
Liebherr diesel engine emission stage IIIa / Tier 3	•
Liebherr hydraulic oil, biologically degradable	•
Lugs for crane lifting, front	•
Lugs for crane lifting, rear	•
Radiator guard heavy duty, hinged	•
Radiator, wide-meshed	•
Refuelling pump, electric	•
Special paint scheme	•
Tool equipment basic scope	•
Tool equipment extended scope	•
Woodchip equipment	+



Operator's Cab

Air-conditioner	•
Armrests 3D adjustable	•
Cab heating	•
Coat hook	•
Dome light	•
Fire extinguisher in the cab	+
Footrest on the right side of the front console	•
Joysticks, longitudinally adjustable	•
Operator's seat Comfort, air-suspended	•
Operator's seat Premium, air-suspended	+
Polycarbonate rear-screen	1)
Pressurised cab	•
Radio	+
Radio preparation kit	+
Rear-view camera	•
Rear-view mirror, inside	•
Rear-view mirrors, external	+
ROPS / FOPS integrated	•
Safety glass tinted	•
Sliding window left	+
Sliding window rear	+
Sliding window right	+
Socket 12 V	+
Stowage compartment, air-conditioned	•
Sunblind, front	•
Touch-controlled colour display	•
Windshield washer system	•
Windshield wipers front, rear, doors, with intermittent function	•



Hydraulic system

Blade float function	•
Blade quick drop function	•
Control block for 2 circuits	•
Hydraulic kit for ripper	+
Hydraulic kit for winch	1)
Oil filter in hydraulic tank	•
Variable flow pump, load-sensing	•



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, detented	+
Travel drive joystick, proportional	•
Travel drive, hydrostatic	•

• = Standard

+ = Option

1) on demand at your dealer

Equipment



Electrical System

2 additional working lights LED on the cab, rear	+
4 cold start batteries	●
2 LED working lights on each lift cylinder	●
2 LED working lights on the cab, rear	●
Access lighting	●
Additional working light LED on the ripper	+
Amber beacon	+
Back-up alarm	+
Back-up alarm, acoustic and visual	+
Battery main switch, lockable	●
Horn	●
Immobiliser, electronic	+
LED working lights "Nordic"	+
LED working lights on the cab, front	●
On-board voltage 24 V	●



Undercarriage

Master link, two-piece	●
Sprocket segments with recesses	+
Sprocket segments, bolted	●
Track frame, closed	●
Track guide	●
Track pads with mud holes	+
Track shoes, heavy duty	●
Tracks, oil-lubricated	●
Undercarriage with bogie suspension	●
Undercarriage with double bogie suspension	+



Attachments Front

Coal U-blade	+
Hydraulic pitch adjustment	+
Protection for blade pitch cylinder	+
Protection for blade tilt cylinder	+
Rock guard with overflow panel on Semi-U-blade	+
Rock guard with overflow panel on U-blade	+
Semi-U-blade	+
Trash rack on semi-U and U-blade	+
U-blade	+
Wear plates on push frame	+
Wear plates on Semi-U-blade	+
Wear plates on U-blade	+
Woodchip U-blade	+



Attachments Rear

Counterweight, rear (5,000 kg / 11,023 lb)	+
Drawbar rear, rigid	1)
Mounting plate for external equipment	1)
Ripper, 1 shank with hydraulic pin puller	+
Ripper, 3 shanks	+
Winch	1)

● = Standard

+ = Option

1) on demand at your dealer

Standard equipment may vary. Consult your Liebherr dealer for details.

The Liebherr Group of Companies



Diverse Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's quality products and services hold a high reputation in many industries. 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 superior quality, Liebherr products offer customers the highest benefits in practical applications.

State-of-the-art Technology

Liebherr attributes great importance to the product areas of core technology and components, in order to achieve its consistent, top-quality products. Important modules and components are developed and manufactured in-house, for instance, the entire drive and control technology for the construction equipment and mining trucks.

Worldwide and Family-Owned

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 140 companies with nearly 48,000 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.us

WARNING

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.

WARNING

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.

Liebherr-Werk Telfs GmbH

Hans-Liebherr-Straße 35 • 6410 Telfs, Austria • Phone +43 50809 6-100 • Fax +43 50809 6-7772
lwt.marketing@liebherr.com • www.liebherr.com • www.facebook.com/LiebherrConstruction