

# 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



# Base Machine



## 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 <sup>3</sup>
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
Batteries	2 x 140 Ah/12V
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



## 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
Drawbar pull	274 kN at 1.5 km/h/0.9 mph
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)
Automatic park 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



## Hydraulics

Hydraulic system	Open-center with load-sensing valve block and 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



## 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	560 mm/22"	865 mm/34"	
	610 mm/24"		



## 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 (ISO 3471) and FOPS Falling Objects Protective Structure (ISO 3449)
Operator's seat	Fully adjustable suspended seat
Monitoring	Combined analogue/LC display, automatic monitoring of operating conditions



## Refill Capacities

Fuel tank	400 l/ 88 Imp.gal
Cooling system	37 l/ 8.1 Imp.gal
Engine oil with oil filters	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



## Sound Emissions

Operator sound exposure ISO 6396:2008	L <sub>PA</sub> = 79 dB(A) (in the cab)
Exterior sound pressure ISO 6395:1988	L <sub>WA</sub> = 111 dB(A) (to the environment)



## Drawbar Pull PR 734-4

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

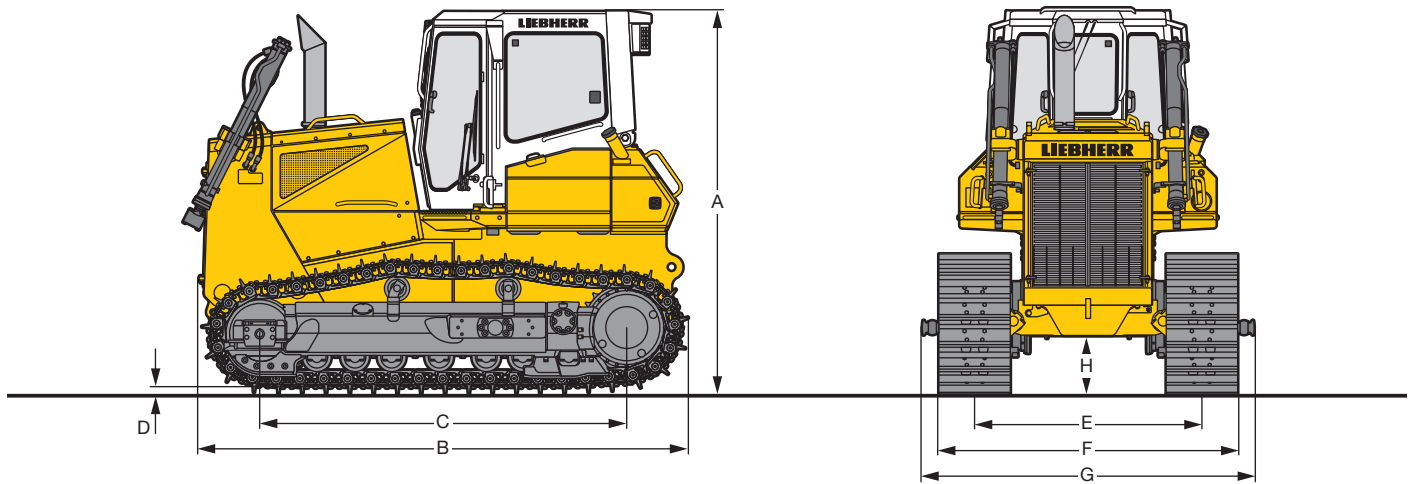


Image shows XL undercarriage

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	Grouser height	mm	65	65	65
		in	2.56"	2.56"	2.56"
E	Track gauge	mm	1,830	1,830	2,070
		ft in	6'0"	6'0"	6'9"
G	Total width over blade-mounting 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"
Track shoes 508 mm/20"					
F	Total width without trunnions	mm/ft in	2,338/7'8"	—	—
	Tractor shipping weight <sup>1</sup>	kg/lb	15,291/33,711		
Track shoes 560 mm/22"					
F	Total width without trunnions	mm/ft in	2,390/7'10"	—	—
	Tractor shipping weight <sup>1</sup>	kg/lb	15,391/33,931		
Track shoes 610 mm/24"					
F	Total width without trunnions	mm/ft in	2,440/8'0"	2,440/8'0"	—
	Tractor shipping weight <sup>1</sup>	kg/lb	15,533/34,244	16,322/53'7"	
Track shoes 812 mm/32"					
F	Total width without trunnions	mm/ft in	—	—	2,882/9'5"
	Tractor shipping weight <sup>1</sup>	kg/lb			17,500/38,581
Track shoes 865 mm/34"					
F	Total width without trunnions	mm/ft in	—	—	2,935/9'8"
	Tractor shipping weight <sup>1</sup>	kg/lb			17,632/38,872

<sup>1</sup> Includes coolant and lubricants, 20 % fuel, ROPS/FOPS cab.

# Front Attachments

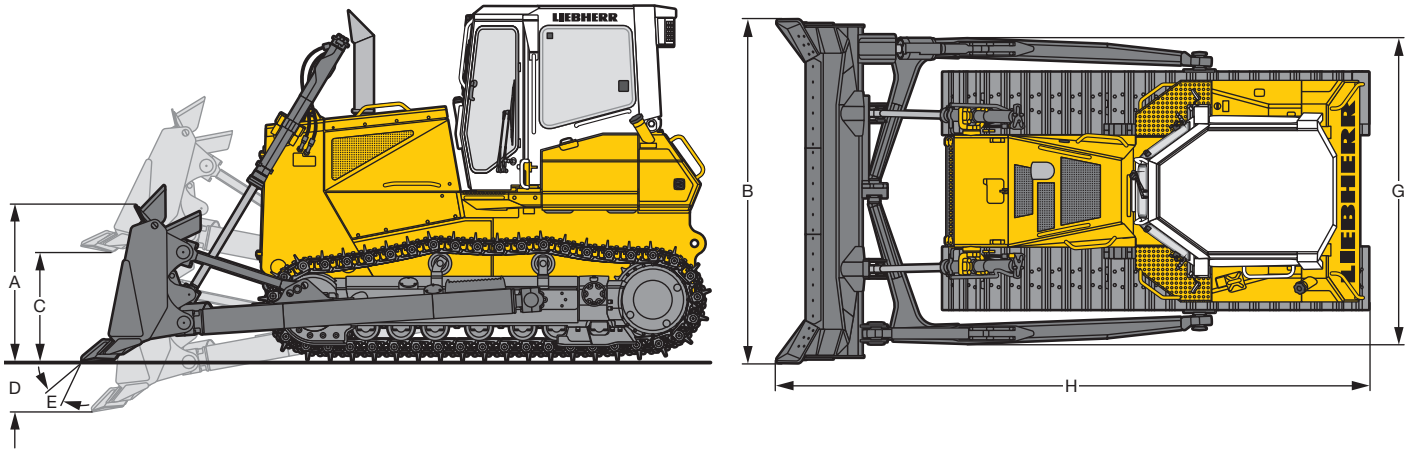


Image shows XL undercarriage

Semi-U Blade and Straight Blade Undercarriage		Semi-U Blade L	Straight Blade L	Semi-U Blade XL	Straight Blade XL	Straight Blade LGP
Blade capacity, ISO 9246	m <sup>3</sup>	5.56	4.21	5.56	4.21	4.10
	yd <sup>3</sup>	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°
Max. blade tilt	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 Overall length	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 <sup>1</sup>	kg/lb	18,060/39,815	17,960/39,595	–	–	–
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI	0.68/9.67	0.67/9.53			
Track shoes 560 mm / 22"						
Operating weight <sup>1</sup>	kg/lb	18,160/40,036	18,060/39,815	–	–	–
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI	0.62/8.82	0.61/8.67			
Track shoes 610 mm / 24"						
Operating weight <sup>1</sup>	kg/lb	18,302/40,349	18,202/40,128	19,091/42,088	18,990/41,866	–
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI	0.57/8.11	0.57/8.11	0.50/7.11	0.49/6.97	
Track shoes 812 mm / 32"						
Operating weight <sup>1</sup>	kg/lb	–	–	–	–	20,066/44,238
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI					0.40/5.69
Track shoes 865 mm / 34"						
Operating weight <sup>1</sup>	kg/lb	–	–	–	–	20,198/44,529
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI					0.37/5.26

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

# Front Attachments

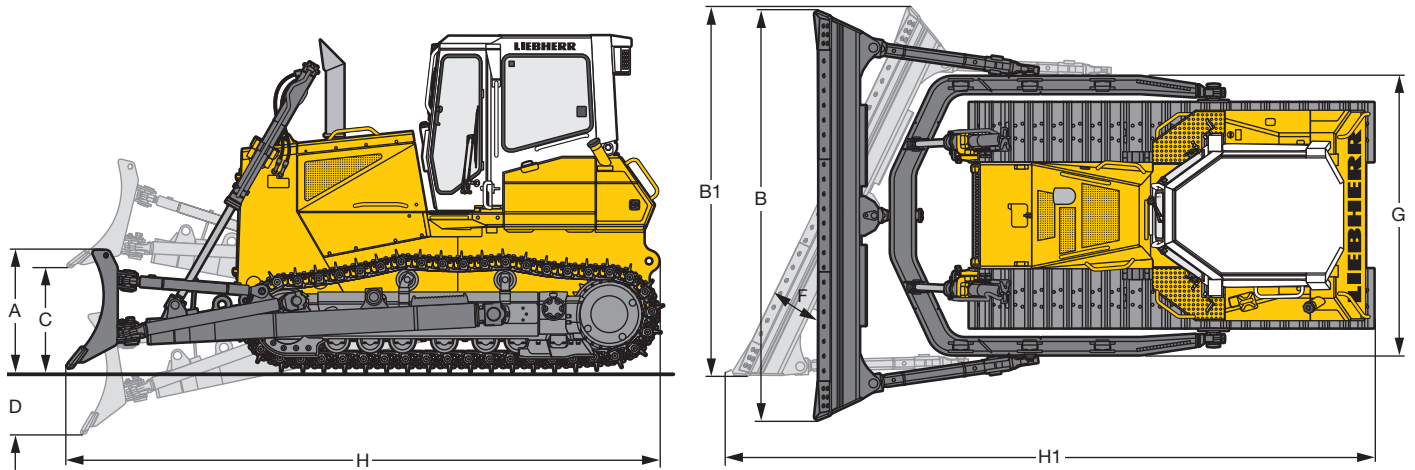


Image shows XL undercarriage

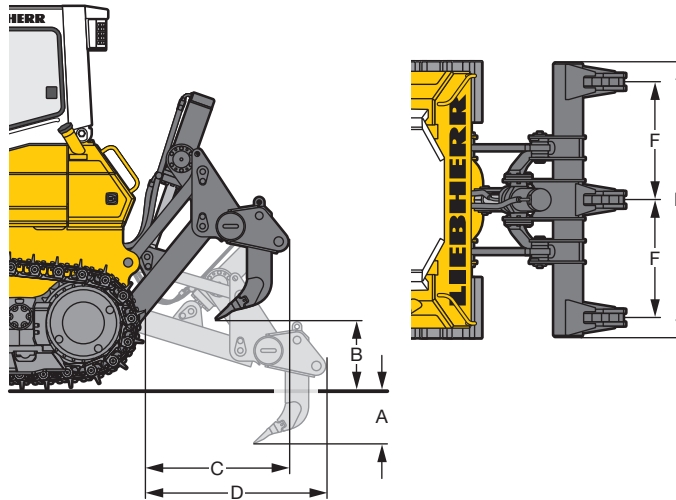
Mechanical Angle Blade*	Undercarriage	without Tilt Function		with Tilt Function <sup>2</sup>	
		XL			
Blade capacity, ISO 9246	m <sup>3</sup>	3.80		3.80	
	yd <sup>3</sup>	4.97		4.97	
A Height of blade	mm	1,120		1,120	
	ft in	3'8"		3'8"	
B Width of blade	mm	4,240		4,240	
	ft in	13'11"		13'11"	
B1 Width of blade, angled	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 <sup>1</sup>	kg/lb	–		–	
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI				
Track shoes 560 mm/22"					
Operating weight <sup>1</sup>	kg/lb	–		–	
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI				
Track shoes 610 mm/24"					
Operating weight <sup>1</sup>	kg/lb	19,448/42,875		19,548/43,096	
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup> /PSI	0.51/7.25		0.51/7.25	

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

<sup>2</sup> 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



Ripper Parallelogram		3-Shank Ripper	
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	5'0"	
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, dry-type, dual step	•
Air filter with automatic dust ejector	•
Battery compartment, lockable	•
Belly pans, heavy duty	•
Engine cover, perforated	•
Engine door, hinged, lockable	•
Engine doors, perforated	•
Fan guard	•
Fan, hydraulically driven	•
Fuel water separator	•
Liebherr Diesel engine	•
Lugs for crane lifting, front	•
Radiator guard	•
Radiator, wide-meshed	•
Tow switch	•
Fan, hydraulically driven, reversible	+
Fuel water separator with electric heater	+
LIDAT – Liebherr data transmission system	+
Liebherr hydraulic oil, Plus Arctic	+
Sealing, cab – base machine	+
Tank guard, bottom	+
Tank guard, complete	+
Toolkit, extended	+
Towing hitch rear	+
Coal equipment	+
Cold kit	+
Forestry equipment	+
Landfill equipment	+
Woodchip equipment	+



## Travel Drive

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



## Electrical System

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



## Operator's Cab

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



## Undercarriage

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

• = Standard

+ = Option

1) Undercarriage L

2) Undercarriage XL

3) Undercarriage LGP



## Control and Warning Lights

Control travel speed range (digital)	•
Control engine coolant temperature (analogue)	•
Control fuel level (analogue)	•
Hour meter (analogue)	•
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 fuel water separator	•
Warning light hydraulic oil temperature	•
Warning light oil return filter	•
Warning light pump replenishing pressure	•
Warning light final drive seal, each side	•
Hydraulic oil temperature gauge	+
Warning light hydraulic oil level	+



## Hydraulic System

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



## Attachments

Coal-U blade	1), 2)	+
Counterweight, rear		+
Drawbar rear, rigid		+
Lifting lugs, rear		+
Mechanical angle blade	2)	+
Mounting plate for external equipment		+
Ripper, 1 shank		+
Ripper, 3 shanks		+
Semi-U blade	1), 2)	+
Spill plate for blade		+
Straight blade	1), 2), 3)	+
Trash rack		+
Wear plates for push frame		+
Winch		+
Woodchip U-blade	1), 2)	+

Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr 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 application.

## 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](http://www.liebherr.com)**

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