### **Crawler tractor**

PR 724

Engine power: 120 kW / 163 HP Operating weight: 16,800 - 20,300 kg

37,038 - 44,754 lb



# LIEBHERR

Engine power: 120 kW / 163 HP Operating weight: 16,800 – 20,300 kg 37,038 - 44,754 lb

Blade capacity: 3.14 - 4.27 m<sup>3</sup> 4.11 - 5.58 cu.yd

Hydrostatic travel drive



#### **Performance**

The PR 724 features innovative technology for pure strength. Its high pushing power and unrivalled running smoothness ensure maximum productivity under all operating conditions. Whether on rough terrain or for fine grading - the PR 724 provides excellent performance whatever the application.

#### **Economy**

The Liebherr PR 724 gives you clear economic benefits. A highly service-friendly technical concept minimises downtime and costs. The latest generation of Liebherr diesel engines combined with the efficient drive system ensure maximum economy. Hard-wearing components increase service life and therefore return on investment.

#### Reliability

Powerful and robust: Liebherr crawler tractors are built for longevity in terms of design and choice of materials. Parts subject to heavy wear are made of high-strength materials and sensitive points are well protected. All this makes Liebherr crawler tractors highly reliable machines with minimum downtimes.

#### Comfort

The generation 4 crawler tractors provide the driver with a generously sized workplace designed according to the latest ergonomic principles. The spacious deluxe cab offers an ideal view of the working area and equipment. The machine can be precisely and safely operated using the intuitive single-lever control.







#### Liebherr diesel engine

- The electronically modelled power and torque characteristics offer excellent traction for pushing and ripping.
- Environmentally friendly and economical: meets the latest exhaust emissions standards 2004/26/EC Stage IIIA (EU) and EPA/CARB Tier 3 (US).
- Extra-deep oil pan allows driving at up to 45° inclination.





### **Performance**

Liebherr has been successfully building hydrostatically driven crawler vehicles for more than 30 years. The powerful latest-generation PR 724 is the ideal machine for many different applications.

#### **Excellent grading characteristics**

Long running gear

The long, geometrically optimised undercarriage ensures smooth, extremely low-vibration travel characteristics.

Buckling-resistant machine construction

The main frame and oscillating bar are particularly resistant to buckling. The oscillating bar with its elastic bearing absorbs vibrations to allow optimum grading.

#### **High pushing power**

Powerful engine

The characteristics of the new Tier IIIA diesel engine are tuned to the high power required when pushing material and cornering. This provides smooth, powerful forward thrust in all situations.

Drive train for maximum traction

The hydrostatic travel drive requires no gearshifting, the engine power is transmitted to the tracks without interruption – even while steering. This means the driver can comfortably control the travel speed.

#### Versatile in use

Excellent manoeuvrability

Another strength of the hydrostatic travel drive becomes apparent when operating in confined spaces. All steering movements can be performed quickly and powerfully – right up to turning on the spot.

Low centre of gravity and high ground clearance

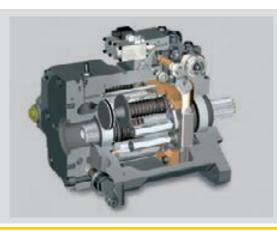
The clever arrangement of the drive components allows quick and safe work, even on slopes and banks. The PR 724 has sufficient ground clearance to operate on the heaviest soil and roughest terrain.

A wide range of equipment

Many different blade types, rear attachments and undercarriage configurations are available, which means the PR 724 can be ideally configured for its intended use.

#### Grading characteristics

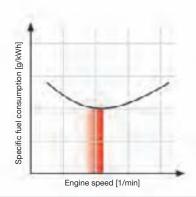
- The ideally positioned blade and the inside-mounted pushing frame give the driver an excellent view of the corners of the blade and the ground underneath.
- The perfectly coordinated front equipment, working hydraulics and the machine itself ensure unsurpassed grading performance and a perfect cut every time.



#### Liebherr hydrostat

- The hydrostatic drive offers uninterrupted power transmission and therefore maximum power and safety in every operating situation.
- Power limiting control with automatic speed and torque adjustment ensures maximum efficiency at every speed





### Low fuel consumption thanks to steady engine speed

• Since the rated engine speed is near to the lowest specific fuel consumption, maximum economy is guaranteed.





### **Economy**

Liebherr crawlers are always designed with economy in mind. The PR 724's low fuel consumption makes a decisive contribution towards reducing costs. Longlasting components and time-saving maintenance greatly increase availability.

#### Low fuel consumption

Steady, low engine speed

The Liebherr diesel engine always runs at a steady speed in the most economical range – regardless of the travel speed. This ensures fuel-saving operation. The low piston speed greatly improves the filling of the cylinder chambers wich results in more efficient fuel combustion.

Efficient drive system

The hydrostatic travel drive ensures maximum efficiency at all speeds, even when driving slowly and reducing power.

Working hydraulics load sensing

This system makes sure that only the power actually required by the working hydraulics is consumed. Fuel is saved when the attachment is not in use.

#### Low service costs

Long maintenance intervals

The maintenance intervals are optimally specified for the individual components. Maintenance-free solutions are used in areas exposed to dirt.

Easy access

All the service points on the engine can be accessed from the same side. Also, the hydraulic tilting cab allows easy access to the hydraulic components. Service tasks can be performed quickly and efficiently.

#### Long-lasting undercarriage

Large components

High-quality components with plenty of wear material ensure long undercarriage life and low operating costs.

#### Tilting cab

 Allows quick and easy access to all components of the travel drive and working hydraulics.

#### Simple maintenance

 All service points are on the same side of the machine. This makes the daily machine inspection very easy and time-saving.



#### Optimised transport width

 The six-way blade with folding corners allows a transport width of less than 3 metres. This means that the machine can be quickly and easily moved with no loss of productivity.





### Key technologies developed by Liebherr

- Liebherr has decades of experience in developing, designing and manufacturing components, and thus offer maximum reliability.
- Key components such as engines, trans-fer gears, hydraulic components and final drives are manufactured in-house and thus guarantee the highest quality.





### Reliability

The high quality and mature technology of the PR 724 make it a machine of the highest reliability. Specially developed components for use in construction machinery and sturdy cast steel parts at points under particular stress guarantee stability even in the most demanding situations.

#### Liebherr drive train

Reliable construction machine engine

Liebherr diesel engines have been developed for the harshest operating conditions. The rigid ladder frame ensures stability, while the low rated speed guarantees reliability and long service life.

Wear-free drive concept

The tried-and-tested hydrostatic travel drive does without components such as the torque converter, shifting gear and differential steering or steering clutches. The standardised hydraulic pumps and motors operate practically without any wear.

Long-lasting final drives

The large final drives in Generation 4 machines are extremely robust and designed for very high loads. The double seal with automatic leak monitoring offers reliable protection.

#### **Robust steel construction**

Box-type main frame

The main frame is of the tried-and-tested box-type design. This makes it extremely resistant to buckling and easily able to take up the forces applied to it. Parts subject to particular strain are made of cast steel.

#### Intelligent solutions for continuous operation

Innovative cooling system

The electrically controlled hydrostatic fan regulates the operating temperature independantly of the engine speed. This lowers fuel consumption and shortens the time it takes to warm up the engine. The extra-large cooler fins achieve an excellent self-cleaning effect.

High-quality wiring harness protection

High-quality braided protection and a cleverly laid wiring harness prevent condensation from forming and provide lasting protection against mechanical damage.

#### **Endurance-tested components**

- As early as the design phase, components are sized using an FE analysis and optimised to handle the loads which will occur.
- The components are then subjected to intensive endurance testing in the laboratory and in the field. Only those parts which meet the high quality standards are used in the machines.



#### State-of-the-art cooling system

- The hydrostatically driven fan regulates the cooling power as necessary: so the engine reaches the ideal operating temperature faster.
- The cooling air is drawn in from zones protected from dirt, and flows smoothly through the cooler. This minimises wear from dust particles.
- Optionally, there is a reversible fan for quickly cleaning the cooler in very dirty situations.





#### Intuitive single-joystick control

- Precise control ranges: Three travel speeds can be preselected and individually programmed using buttons. Default setting: Level 1: 0 - 4.0 km/h (2.5 mph) Level 2: 0 - 6.5 km/h (4.0 mph) Level 3: 0 - 11.0 km/h (6.8 mph)
- Memory function: All the programmes settings are retained after the machine is restarted.



#### Inch/brake pedal

- In addition to the travel joystick, the driver can use the foot pedal to control the speed and activate the braking function as required.
- 1) Inching function
- 2) Braking function



### Comfort

The redesigned cab stands out with its extraordinary driver comfort. Generously spacious, ergonomically designed and quiet, Liebherr cabs provide the ideal conditions for productive, non-tiring work. Excellent sightlines facilitate precise and safe operation.

#### De-luxe cab

The driver's cab in Generation 4 Liebherr crawler **Ergonomics** 

tractors offers the ideal conditions for relaxed, focussed work. All the controls are clearly laid out

within easy reach.

Low noise Thanks to the effective insulation and the stateof-the-art, quiet diesel engine, sound levels in the

PR 724 cab are excellent and far below the legally

required levels.

**Excellent view** Built-in ROPS/FOPS protection and the large

cab windows allow the driver an excellent all-

round view.

#### Simple and precise control

Single-lever control All the driving functions - including turning on the spot - can be comfortably and precisely control-

led using a single lever.

Continuous control The speed is infinitely variable without gear shift-

ing and therefore, without interruption of traction.

The crawler tractor always keeps its traction, even when driving on slopes. The hydrostatic transmission allows the driver to control braking by simply pulling the joystick back toward the middle.

A parking brake which is automatically activated when the machine is at a standstill provides additional safety.



#### Instrument panel

Safety in every situation

- The instrument display is ideally positioned in the driver's field of view
- Automatic monitoring, indication and warning of unusual conditions during operation.



#### Clever details

- A large storage compartment with a 12 V socket for running a cooler is standard.
- The flexible, adjustable seat with three armrest positions provides a comfortable working position.
- Other details such as sliding windows, tinted glass and foot rests further increase comfort.

### **Basic machine**



#### **Engine**

Liebherr diesel engine D 934 L A6

> Emission regulations according to 97/68/EC, 2004/26/EC Stage IIIA and EPA/CARB Tier 3

Rating (ISO 9249) 120 kW / 163 HP Rating (SAE J1349) 120 kW / 161 HP Rated speed 1.800 rpm

Displacement 7.0 I / 427 in<sup>3</sup> Design 4-cylinder in-line engine, water-cooled,

turbocharged, air-to-air intercooler

Injection system Direct fuel injection, pump-line-nozzle system,

electronic control

**Engine lubrication** Pressurised lube system, engine lubrication

guaranted for inclinations up to 45-degree

Operating voltage 24 V Alternator 80 A 5.4 kW Starter

**Batteries** 2 x 170 Ah / 12 V

Air cleaner Dry-type air cleaner with pre-cleaner, main and

safety elements, control light in the operator's

Cooling system Combi radiator, comprising a radiator for water,

hydraulic fluid, fuel, charge air; hydrostatic fan

drive



#### Travel drive, control

Infinitely variable hydrostatic travel drive, Transmission system independent drive for each track frame

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 mph (7.8 km/h / 4.8 mph) Speed range 3 (reverse) 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) Drawbar pull 235 kN at 1.5 km/h / 0.9 mph

Electronic engine speed sensing control Litronic-System

(load-sensing feature) 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 emergency brake applied with neutral joystick position

Hydraulic oil cooler, integrated in combi radiator Cooling system Micro cartridge filters in cooling circuit Filter system Final drive Combination spur gear with planetary gear, double sealed (duo cone seals) with electronic

seal-integrity indicator

Single joystick for all travel and steering Control

functions and counter rotation



#### Operator's cab

Resiliently mounted cab with enclosed positive Cab pressure ventilation, can be tilted with the 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 Fully adjustable comfort seat adjustable to

operator's weight

Monitoring Combined analogue / LC display, automatic monitoring of deviating operating conditions



#### Track frame

	L	XL	LGP
Mount	Via separate p equaliser bar	oivot shafts and	l an oscillating
Chains		ngle grouser sh nd grease tensi	noes, tension via oner
Links	42	46	46
Track rollers/carrier rollers	7/2	8/2	8/2
Sprocket segments	5	5	5
Track shoes width standard	508 mm (20")	508 mm (20")	711 mm (28") 812 mm (32")
Track shoes width option	560 mm (22") 610 mm (24")	560 mm (22") 610 mm (24")	914 mm (36")



#### **Hydraulic equipment**

Hydraulic system	Load sensing (demand-controlled)
Pump type	Swash plate piston pump
Pump flow max.	169 l/min / 37.2 gpm
Pressure limitation	200 bar / 2,900 PSI
Control valve	2 segments, expandable to 4
Filter system	Return filter with magnetic rod in the hydraulic tank
Control	Single four-way joystick for all blade functions



#### **Noise emissions**

Operator sound exposure  $L_{pA} = 77 \text{ dB(A)}$ 

ISO 6396:2008 (emission at the operator's position)

 $L_{wA} = 109 dB(A)$ Exterior sound pressure

2000/14/EC (emission in the environment)

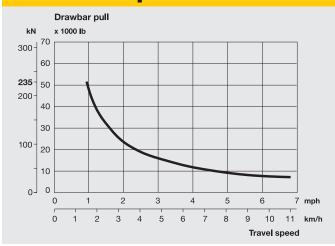


#### **Refill capacities**

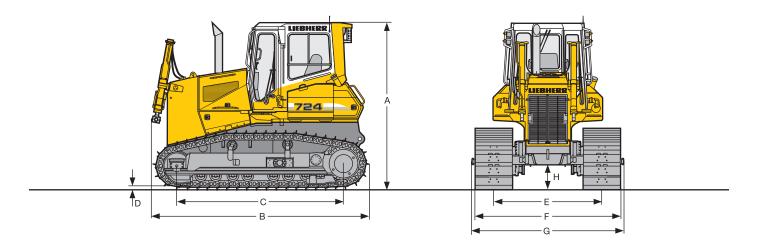
Fuel tank	365 I (80.3 Imp.gal)
Cooling system	30 I (6.6 Imp.gal)
Engine oil with filter	29 I (6.4 Imp.gal)
Splitter box	3.0 I (0.7 Imp.gal)
Hydraulic tank	144 I (31.7 Imp.gal)
Final drive L/XL, each	15 I (3.3 Imp.gal)
Final drive, LGP, each	20 I (4.4 Imp.gal)



#### Drawbar pull PR 724



# **Dimensions**

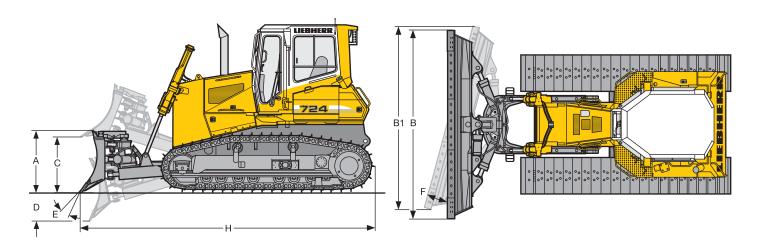


Dimensions		PR 724 L	PR 724 XL	PR 724 LGP
A Height over cab	mm	3,197	3,197	3,197
	ft-in	10'6"	10'6"	10'6"
B Overall length without attachments	mm	4,114	4,173	4,173
	ft-in	13'6"	13'8"	13'8"
C Distance idler/sprocket centre	mm	2,830	3,210	3,210
	ft-in	9'3"	10'6"	10'6"
D Height of grousers	mm	56	56	56
	inch	2.2"	2.2"	2.2"
E Track gauge	mm	1,800	1,800	2,084
	ft-in	5'11"	5'11"	6'10"
F Width over tracks <sup>1</sup>	mm	2,410	2,410	2,998
	inch	7'11"	7'11"	9'10"
G Width over trunnions	mm	2,648	2,648	3,248
	ft-in	8'8"	8'8"	10'8"
H Ground clearance	mm	475	475	475
	ft-in	1'7"	1'7"	1'7"

ft-in|

1 Track shoes 610 mm/24" (L and XL), respectively 914 mm/36" (LGP)

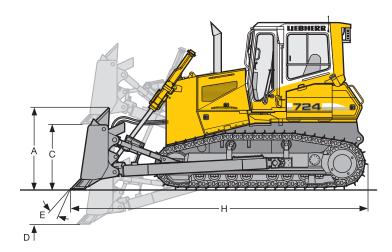
# Front attachment

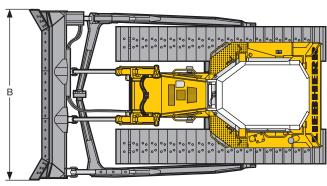


/ 🖶	inside unted	6-way blade	6-way blade with hinged corners	6-way blade	6-way blade with hinged corners XL	6-way blade	6-way blade with hinged corners LGP
•			_				
Blade capacity according to ISO 9246	m³ cu.yd	3.17 4.15	3.17 4.15	3.17 4.15	3.17 4.15	3.39 4.43	3.39 4.43
A Height of blade	mm	1,200	1,200	1,200	1,200	1,100	1,100
A Treight of blade	ft-in	3'11"	3'11"	3'11"	3'11"	3'7"	3'7"
B Width of blade	mm	3,204	3,204	3,204	3,204	3,790	3,790
	ft-in	10'6"	10'6"	10'6"	10'6"	12'5"	12'5"
B1 Width of blade angled	mm	2,997	3,081	2,997	3,081	3,537	3,638
	ft-in	9'10"	10'1"	9'10"	10'1"	11'7"	11'11"
Transport width	mm	2,997	2,430	2,997	2,430	3,537	3,000
0.1101	ft-in	9'10"	8'	9'10"	8'	11'7"	9'10"
C Lifting height	mm	1,149	1,149	1,187	1,187	1,174	1,174
D. Davilla la decensión de	ft-in	3'9"	3'9"	3'11"	3'11"	3'10"	3'10"
D Depth below ground	mm ft-in	532 1'9"	532 1'9"	510 1'8"	510 1'8"	504 1'8"	504 1'8"
E Max. blade pitch	IL-III	5°	5°	5°	5°	5°	5°
L Iviax. blade pitch		3	3	3	3	3	3
F Angle adjustment		23°	18°	23°	18°	23°	18°
Max. blade tilt	mm	474	474	474	474	560	560
	ft-in	1'7"	1'7"	1'7"	1'7"	1'10"	1'10"
H Overall length, blade strai	ght mm	5,369	5,369	5,501	5,501	5,468	5,468
	ft-in	17'7"	17'7"	18'11"	18'11"	17'11"	17'11"
Operating weight <sup>2</sup>	kg	16,867	17,202	17,427	17,762	18,437	18,772
	lb	37,185	37,924	38,420	39,158	40,647	41,385
Ground pressure <sup>2</sup>	kg/cm <sup>2</sup>	0.49	0.50	0.44	0.45	0.31	0.32
	PSI	6.97	7.11	6.26	6.4	4.41	4.55

<sup>1</sup> Optional outside-mounted push frame (See Product-Information concerning the 6-way blade with outside-mounted push frame)
2 Lubricants and fuels, 6-way blade, operator, track shoes 610 mm/24" (L and XL) resp. 914 mm/36" (LGP)

# Front attachment

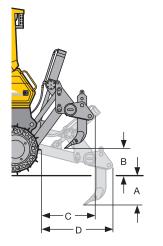


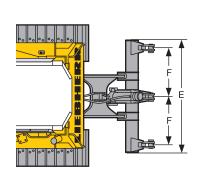


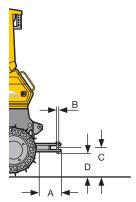
Semi-U bl		Semi-U blade L	Semi-U blade XL	Straight blade L	Straight blade XL	Straight blade LGP
Blade capacity according to ISO 9246	6 m <sup>3</sup>	4.27	4.27	3.14	3.14	3.43
	cu.yd	5.58	5.58	4.11	4.11	4.49
A Height of blade	mm	1,250	1,250	1,200	1,200	1,100
	ft-in	4'1"	4'1"	3'11"	3'11"	3'7"
B Width of blade	mm	3,000	3,000	3,000	3,000	3,600
	ft-in	9'10"	9'10"	9'10"	9'10"	11'10"
C Lifting height	mm	968	1,062	968	1,062	1,061
	ft-in	3'2"	3'6"	3'2"	3'6"	3'6"
D Depth below ground	mm	419	460	419	460	460
	ft-in	1'4"	1'6"	1'4"	1'6"	1'6"
E Max. blade pitch		10°	10°	10°	10°	10°
Max. blade tilt	mm	639	639	639	639	618
	ft-in	2'1"	2'1"	2'1"	2'1"	2'0"
H Overall length, blade straight	mm	5,155	5,535	4,941	5,321	5,316
	ft-in	16'11"	18'2"	16'3"	17'5"	17'5"
Operating weight <sup>1</sup>	kg	16,792	17,287	16,662	17,157	18,322
	Ib	37,020	38,111	36,733	37,825	40,393
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup>	0.49	0.44	0.48	0.44	0.31
	PSI	6.97	6.26	6.83	6.26	4.41

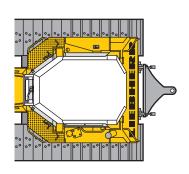
<sup>&</sup>lt;sup>1</sup> Lubrication and operating materials, fuel, semi-U blade/straight blade, operator, track shoes 610 mm/24" (L/XL) or 914 mm/36" (LGP)

# Rear attachment









	3 s	lipper hanks	Parallelogram
Α	Ripping depth (max./min.)	mm ft-in	500 / 350 1'8"/1'2"
В	Lifting height (max./min.)	mm ft-in	650 / 500 2'2"/1'8"
С	Overall length, attachment raised	mm ft-in	1,071 3'6"
D	Overall length, attachment lowered	mm ft-in	1,427 4'8"
Е	Toolbar width	mm ft-in	2,300 7'7"
F	Distance between shanks	mm ft-in	1,000 3'3"
	Weight	kg Ib	1,480 3,263

		Drawbar	Rigid
Α	Additional length	mm ft-in	463 1'6"
В	Socket pin diameter	mm ft-in	45 1.77"
С	Height of jaw	mm ft-in	525 1'9"
D	Ground clearance	mm ft-in	435 1'5"
	Jaw opening	mm ft-in	90 3.54"
	Weight	kg Ib	205 452

# **Equipment**

Basic machine	S	0
Tow switch	•	
Towing hitch rear	•	
Towing lug front	•	
Forestry equipment		•
Landfill equipment		•
Battery compartment, lockable	•	
Tank guard, complete		•
Refuelling pump, electric		•
Diesel particulate filter		•
Belly pans, heavy-duty	•	
Cold start device, glow plug	•	
Radiator, wide-meshed	•	
Radiator guard, heavy-duty		•
Radiator guard, hinged	•	
Liebherr bio degradable hydraulic oil		•
Liebherr diesel engine	•	
Fan, hydraulically driven	•	
Fan, hydraulically driven, reversible		•
Fan guard	•	
Engine cover, perforated	•	
Engine doors, perforated	•	
Engine doors, hinged, lockable	•	
Lugs for crane lifting	•	
Special paint		•
Fuel water separator	•	
Fuel water separator with electric		
heater		•
Air filter, dry type, dual step	•	
Pre-cleaner with automatic dust		
ejector	•	
Laser/GPS ready kit		•
Toolkit	•	

Travel drive	s	0
Parking brake, automatic	•	
Function control, automatic	•	
Control, single joystick	•	
Load limit control, electronic	•	
Electronic control	•	
Travel control, 3-speed	•	
Hydrostatic travel drive	•	
Inching brake pedal		•
Emergency stop	•	
Oil cooler	•	
Final drives planetary gear	•	
Safety lever	•	

Track frame	s	0
Track shoes in design ESS		•
Track frame, closed	•	
Sprocket segments, bolted	•	
Master link, two-piece	•	
Track shoes with mud holes		•
Track guide centre part		•
Tracks oil-lubricated	•	
Track guard		•
Undercarriage L		•
Undercarriage XL		•
Undercarriage LGP		•
Track frames, oscillating	•	
Pivot shaft, separate	•	
Sprocket segments with recesses		•

4		
Electrical		
system	s	0
Starter motor 5.4 kW	•	
Working lights, front, 4 units	•	
Working lights, rear, 2 units	•	
Batteries, heavy-duty cold start, 2 units	•	
Battery main switch, mechanic	•	
On-board system 24 V	•	
Alternator 80 A		•
Back-up alarm		•
Beacon		•
Horn	•	
Immobiliser, electronic		•
Additional lights, rear		•
Additional lights, on lifting cylinders, 4 units		•

Operator's cab	s	0
Stowage box	•	
Armrests 3D adjustable	•	
Ash tray	•	
Pressurised with air filter	•	
Operator's seat, 6-way adjustable	•	
Fire extinguisher		•
Dome light	•	
Coat hook	•	
Air conditioner		•
Cool box		•
FM radio		•
Radio preparation kit		•
ROPS/FOPS	•	
Rear mirror, inside	•	
Safety glass, tinted	•	
Windshield washer system	•	
Windshield wipers front, rear and		
doors, with intermittent function	•	
Sliding window, left	•	
Sliding window, right		•
Protective grids for windows		•
Extension, seat back		•
Sun visor	•	
Socket 12 V	•	
Hot water heating	•	

Control and		
warning lights	s	0
Display travel speed range (digital)	•	
Engine coolant temperature gauge		
(analogue)	•	
Fuel gauge (analogue)	•	
Hour meter (analogue)	•	
Warning light battery charging	•	
Warning light Diesel engine Warning light electronic travel control	•	
system	•	
Warning light final drive seals,		
each side	•	
Warning light parking brake	•	
Warning light hydraulic oil temperature		•
Warning light fuel water separator Warning light fan control	•	
Warning light pump repleneshing		
pressure	•	
Warning light float position blade	•	
Warning light oil return filter	•	
Warning light air filter	•	
Warning light Diesel engine preheating	•	
Main warning light	•	

自		
Hydraulic		
equipment	s	0
Hydraulic control ripper		•
Hydraulic control winch		•
Variable flow pump, load-sensing	•	
Oil filter in hydraulic tank	•	
Blade quick drop	•	
Control block for 2 circuits	•	
Float position blade	•	
Hydraulic servo control	•	
Hydraulic tank oil level warning light		•

<b>Attachments</b>	s	0
Mounting plate for external tools		•
Drawbar rear, rigid		•
Drawbar rear, swivelling		•
Counterweight, rear		•
Ripper 3 shanks		•
Bumper rear		•
6-way blade with inside mounted		
pushframe		•
6-way blade with outside mounted		
pushframe		•
Straight blade		•
Semi-U blade		•
Winch		•
Spill guard for blade		•

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 highvalue products and services enjoy a high reputation in many other fields, too. 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 inhouse, 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 100 companies with over 32,000 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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