



# **Performance**

- Specially designed lift arms enable high manipulation heights and long reaches for fast and trouble-free loading / unloading of trucks, loading of facilities, as well as log handling and the transportation of high stacks of logs
- Grab that can be rotated 360° and swivelled forwards and backwards, ensuring optimum material handling
- Additional grab variants and sizes ensure a variety of possible applications
- Hydraulic stop damping acts transversely to the travel direction and dampens vibrations, thus ensuring a smooth drive and high machine availability
- Stroke limit damping provides more robustness as well as a lower load on the stroke limits of the working hydraulics
- Reduced machine vibrations allow comfortable and quiet operation

# **Economy**

- Liebherr-XPower travel drive accelerates quickly and enables high travel speeds, ensuring faster work cycles
- Excellent fuel economy thanks to the innovative travel drive with Liebherr-Power-Efficiency (LPE)
- LPE optimises the interplay of diesel engine, transmission and working hydraulics for maximum efficiency and performance
- Minimal tyre wear and virtually no brake wear due to the hydraulic-mechanical braking action of the drive
- Automatic positioning of the lift arms by sophisticated electrohydraulics optimises work processes and saves time

# Reliability

- L 580 LogHandler XPower® delivers maximum performance even under the toughest operating conditions in the timber industry thanks to a sophisticated engineering concept
- Equipped with numerous protective devices, the LogHandler proves to be an extremely robust, reliable and powerful machine
- The components inherent in Liebherr-XPower wheel loaders are extremely resistant to wear

# Maintainability

- The most important points of daily maintenance can be seen on the touch screen display
- Simple and safe maintenance ensures less downtime, and less costs

# **Comfort**

- Ergonomic cab design and enhanced operating comfort ensures concentrated and less-tiring work – increasing performance and productivity
- Optional joystick steering is integrated into the operator's seat for ergonomic and comfortable operation
- The option for just joystick steering makes it possible to have no steering wheel and steering column, removing the need to reach around the steering to the control unit
- Excellent all-round visibility no matter the position of the lift arms thanks to the special kinematics for timber work, the optimum lighting concept, and the generous cab windows

# Focus on performance and power

# Lift arms

Everything in view and under control – the lift arms specifically designed for logging operations, provide an optimal view of the loading / unloading area. An additional grab camera provides an ideal view from the top of the log pile. The grab design provides excellent penetrative force to give a faster fill and enabling maximum load. In addition, the extended grab width of 1,100 mm ensures the stable transportation of logs. The hydraulic stop damping of the grab compensates for speed changes and ground unevenness and provides greater operator comfort. A hydraulically adjustable log pusher with additional deflector plates is also available as an option.



Safe and helpful – a number of assistance systems ensure greater safety and faster work cycles, effectively increasing productivity. Safety at the rear of the wheel loader is increased with rear area monitoring, active personnel detection and an acoustic and visual reversing alarm.





# Cab

Comfortable and modern – the soundproofed ROPS / FOPS cab offers a modern and ergonomic working atmosphere in every respect. The Liebherr control lever is electro-hydraulically pilot-controlled and is conveniently adjustable via the Liebherr display. Optional joystick steering is integrated into the operator's seat for ergonomic and comfortable operation. In addition, the optional exclusive joystick steering offers an operator's cab without a steering wheel and column, providing numerous advantages such as more space in the cab, improved visibility of the operating area and no need to reach around between the steering and control unit.

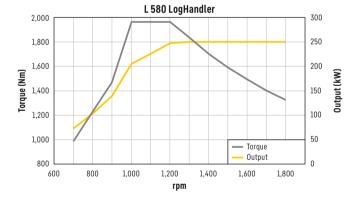
# Travel drive and maintenance

Powerful and efficient – the Liebherr XPower travel drive enables continuous acceleration in all speed ranges, without noticeable gear changes and without losing tractive force. The ride control and working hydraulics stroke limit damping keep vibrations low during work and extends the machine's service life. All maintenance points are safely, easily and quickly accessible. Non-slip treads and sturdy handrails ensure maximum safety.

# **Technical data**

# Diesel engine

	-	
Diesel engine		D936 A7
Design		Water-cooled in-series engine with charge-air cooling
Cylinder inline		6
Fuel injection process		Electronic Common Rail high-pressure injection
Output		
to ISO 9249 /	kW/HP	250/340
ECE-R.24	at RPM	1,800
Rated output		
to ISO 14396/		
ECE-R.120	kW/HP	
Nominal speed	at RPM	1,800
Max. torque		
to ISO 14396/	Nm	1,969
ECE-R.120	at RPM	1,000
Displacement	litres	
Bore / Stroke	mm	122/150
Stage IV - available only ir	ı select ma	
Harmful emission values		According to regulation ECE-R.96
		Power Band Q
Emission control		Liebherr-SCR technology
Stage V		
Harmful emission values		According to regulation (EU) 2016/1628
Emission control		Liebherr-SCR technology and closed diesel particle filter system
Air cleaner system		Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display
Electrical system		, ,
Operating voltage	٧	24
Battery	Ah	2x180
Alternator	V/A	28/180
Starter	V/kW	24/7.8



# Driveline

Continuous power split XPower® driveline				
Design	Continuous, fully-automatic XPower® driveline.  No traction interruptions across the entire speed range. Hydrostatic power split with two axial piston units. Identical driving performance – forwards and in reverse			
Filtration	Filter system for driveline, depend on working hydraulics			
Control	Driveline is controlled from travel pedal for tractive force and speed setting with integrated inch function. The Liebherr control lever is used to control forward and reverse travel			
Travel speed range	0 - 40 km/h forward and reverse, fully-automatic Speed restriction available upon request.  Speeds quoted apply with the tyres Michelin 800/65R29 XLD65 L3.			

# - Axles

Four-wheel drive		
Front axle		Fixed
Rear axle		Centre pivot, with 10° oscillating angle to each side
Height of obstacles which can be driven over	mm	300 with all four wheels remaining in contact with the ground
Differentials		Automatic limited-slip differentials
Reduction gear		Planetary final drive in wheel hubs
Track width		2 374 mm with all types of tyres



Wear-free service	Self-locking of the XPower® driveline
brake	(acting on all four wheels) and additional pump-
	accumulator brake system with wet multi-disc brakes
	(two separate brake circuits)
Parking brake	Electro-hydraulically actuated spring-loaded disc brake
	system on the transmission

The braking system meets the requirements of the ISO 3450.



Design	"Load-sensing" swash plate type variable flow pump with pressure cut-off and flow control. Central pivot with two double-acting, damped steering cylinders
Angle of articulation	38° to each side
Emergency steering	Electro-hydraulic emergency steering system



CIAM 17100					
All dimensions and weight data are calculated for loaders equipped with					
Michelin 800/65R29 XLD65 L3 tyres					
Change of dimensions and weight w	hen fitted with				
Goodyear 775/65R29 GP-4D L4 tyres are:					
Operating weight k	rg   -220				
Vertical dimensions mi	m   -18				

# Attachment hydraulics

Design		"Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block		
		Hydraulic oil cooling using thermostatically controlled fan and oil cooler		
Filtration		Return line filter in the hydraulic reservoir		
Control		Liebherr control lever, electro-hydraulically operated		
Lifting function		Lifting, neutral, lowering		
		Lift arm positions programmable		
Turning function		Forwards, neutral, reverse		
		Lift arm positions programmable		
Grapple swing		Forwards, lock, loose, reverse		
Grapple rotation		360°		
Grapple opening / closing				
Max. flow	l/min.	420		
Max. pressure	bar	350		

# **//** Attachment

	Powerful and sturdy LogHandler lift arm for optimal lifting heights. 360° rotating grapple equipment
Bearings	Sealed



# Operator's cab

operator s out					
Design		Hydraulically mounted, noise-proof cab ROPS roll over protection per EN ISO 3471/EN 474-1 FOPS falling objects protection per EN ISO 3449/ EN 474-1, Cat. II Operator's door with sliding side window, sliding side window on right, front windscreen made of laminated safety glass, side panels with single-pane safety glass ESG, heated rear window ESG, all windows are tinted. 3 way continuous adjustable steering column			
Liebherr operator's seat		6 way adjustable, vibration-damped operator's seat "Comfort" with seat, depth and incline adjustment as standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard			
Cab heating and ventilation		4-zone air conditioning with new improved cooling output as standard, electrically heated rear window, all filters are easy to access and replaceable			
Vibration emissions					
Vibrations in the hand/arm m/s <sup>2</sup>		≤2.5			
Vibrations through the whole body	m/s²	≤0.5			

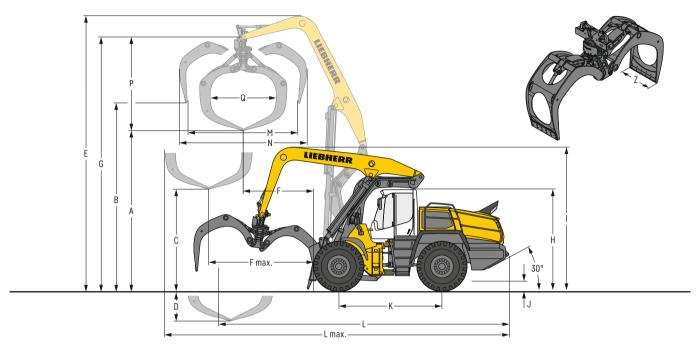
$\mathfrak{D}$ Sound level		
Sound pressure level to ISO 6396		
L <sub>pA</sub> (inside cab)	dB(A)	68
Sound power level to 2000/14/EC		
L <sub>WA</sub> (surround noise)	dB(A)	107

# **Capacities**

Fuel tank	l	365
DEF tank	l	67.5
Engine oil		
(inclusive filter change)	l	42
Pump distribution gearbox	l	1.2
XPower® gearbox	l	55
Coolant	l	73
Front axle	l	58
Rear axle	l	58
Hydraulic tank	l	95
Hydraulic system, total	l	230
Air conditioning system R134a	g	1,250

# **Dimensions**

# LogHandler XPower®





# Rotating grapple, 360°

			3.4 m <sup>2</sup>	3.7 m <sup>2</sup>	4.0 m <sup>2</sup>
Α	Max. manipulation height with grapple closed1)	mm	5,925	5,773	5,691
В	Max. manipulation height with grapple open	mm	7,025	6,955	6,895
C	Manipulation height at max. reach	mm	3,940	3,810	3,680
D	Lower manipulation area	mm	975	1,105	1,235
Ε	Max. height	mm	9,950	9,950	9,950
F	Reach at max. lifting height	mm	2,720	2,720	2,720
F max	x.Max. reach	mm	3,960	3,960	3,960
G	Height of grapple link	mm	9,165	9,165	9,165
Н	Height above operator's cab	mm	3,590	3,590	3,590
1	Height with grapple positioned longitudinally	mm	5,250	5,250	5,250
	Height when max. reach is attained	mm	6,950	6,950	6,950
J	Ground clearance incl. log pusher	mm	300	300	300
K	Wheelbase	mm	3,710	3,710	3,710
L	Overall length	mm	10,385	10,435	10,435
L max	x. Max. total length at max. reach	mm	12,597	12,647	12,647
	Width over tyres <sup>2)</sup>	mm	3,220	3,220	3,220
М	Grapple opening	mm	3,580	3,800	4,030
N	Max. span with grapple open	mm	4,300	4,430	4,640
P	Height from tip-to-tip	mm	3,010	3,140	3,270
Q	Grapple diameter	mm	2,400	2,400	2,400
	Grapple weight (incl. chains) 3)	kg	2,850	2,950	3,000
Z	Jaw width	mm	1,100	1,100	1,100
	ng circle radius over lift arm with grapple positioned longitudinally	mm	7,250	7,290	7,290
	ng circle radius over external edge of tyres	mm	7,030	7,030	7,030
	ng circle radius over inner edge of tyres	mm	3,800	3,800	3,800
	payload at fully articulated angle of articulation*	kg	9,000	8,850	8,800
	payload with reduced reach				
	mm swung back) and max. articulation angle*	kg	11,100	10,950	10,900
•	ating weight*	kg	37,400	37,500	37,550
Tyre	size		800/65R29	800/65R29	800/65R29
			Michelin XLD65	Michelin XLD65	Michelin XLD65

<sup>\*</sup> The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tyres and optional equipment like hold-down devices will change the operating weight and payload. The log pusher increases the operating weight as 1,100 kg.

Data applies to grapple with chain and bottom screw blade; with hydraulic hold-down device the weight of the grapple increases by 120 kg.



<sup>=</sup> Combination grapple; closes tip-to-tip

<sup>1)</sup> Takes tyre deflection into account at maximum payload.

<sup>2)</sup> The provided values include the tire bulge associated with a fully-loaded machine.

# **Equipment**

# Grapple versions / areas of application



	Combination grapple
Hold-down device	Chain / Hydraulic hold-down device
Grapple sizes	m² 3.4/3.7/4.0
Grapple closes tip-to-tip	•
Vertical parting	-
Mass handling	+++
Sorting	+++
Unloading trucks	+++
Box emptying	+

• = Standard, +++ = excellent, + = satisfactory, - = not available



# **Basic wheel loader**

	Crash protection, rear	+	
Automatic central lubrication system			
Battery main switch (lockable)			
Refuelling pump with automatic shut-down system			
	Electronic tractive force regulation for difficult ground conditions	•	
	Travel light LED	•	
	Travel light with additional headlights LED	+	
	Ride control	•	
	Parking brake	•	
	Fire extinguisher 6 kg	•	
	Fluff trap for radiator	+	
	Speed limitor 20 km/h as a factory preset	+	
	Speed limitor V <sub>max</sub> adjustable key on the control unit	•	
	Transmission mode in neutral position – self-locking or free rolling		
	(can be selected via the display)	+	
	DEF tank	•	
	Turbocharger insulation	+	
	Pre-heat system for cold starting	•	
	Combined inching-braking system	•	
	Fuel pre-filter	•	
	Fuel pre-filter with pre-heating	+	
	Large-mesh radiator	+	
	Cooling water pre-heating 230 V	+	
	Multi-disc limited slip differentials in both axles	•	
	Lamp carrier in steel design with guard	•	
	Lamp carrier in steel design with additional lights and guard	+	
	Reversible fan drive	+	
	Automatic delayed engine stop	+	
	Widening for mudguard	+	
	Ramming guard with guard	+	
	Headlights LED (double design on engine hood)	•	
	LogHandler special ballast (no water filling of tyres required)	•	
	Auxiliary heater (Additional heating with engine preheating)	+	
	Dust protection for alternator	+	
	Lockable doors and engine hood	•	
	Air pre-cleaner TOP AIR	+	
	Toolbox with toolkit	•	
	Liebherr weighing system with stability indicator	+	
	Towing hitch	•	
	Additional handrails left	•	
	Additional handrails right	+	

# **F** Equipment

	·	
Deflector for log pus	her	+
Working hydraulics l	ockout	•
Grapple with hydraul	iic stop damper	•
Grapple monitoring (	with camera on display)	+
Log grapple Liebherr	, 360° rotating	+
Log grapple versions	incl. modular blade	+
LogHandler lift arm v	with windscreen guard	•
Lift arm positions pro	ogrammable	•
Hoist cylinder protec	tion	•
Headlights LED on th	ie arm	
(double design inside	e and outside; single design on front carriage)	+
Headlights LED insid	e the arm	•
Smooth Speed Reduc	ction system (SSR-System)	•
Log pusher hydraulic	cally adjusted with automatic lifting in reverse travel	+
	·	

- $\bullet$  = Standard
- + = Option
- = not available

# All illustrations and data may differ from standard equipment. Subject to change without notice. Printed in Germany by DHW $\cdot$ RG-BK $\cdot$ LBH/PM-12288142-0.6-05.23\_enGB

•

+

+

• • + +

+

# **Equipment**



# Operator's cab

Oherarni 2 can		
Adapter plate for additional fastening on the multi-function rail	+	
Access assistance to facilitate cleaning windscreen		
Exterior mirror, manual adjustable	•	
Operating hour meter (integrated in display unit)	•	
Operating hour meter (mechanic)		
Electronical theft protection with code	+	
Electronical theft protection with key with/without driver identification		
Storage box left		
Operator's cab without steering wheel/steering column		
(not available as street legal) – joystick steering only	+	
Operator seat "Comfort" - air sprung with seat heating	•	
Operator seat "Premium" – active air-suspension with seat air-condition,		
seat heating and headrest	+	
Particle filter F7	•	
Fire extinguisher in cab 2kg	+	
Preparation for radio unit installation	+	
Rear window heated electrically	•	
Integral tyre pressure monitoring system		
Joystick steering	+	
Floor mat	•	
Clothes hooks (2 pieces)	•	
Air conditioning system	•	
Automatic air conditioning system	+	
Cool box	+	
3 way continuously adjustable steering column (height-adjustable, tilting, folding)	•	
LiDAT total use 1 year (for free)	•	
Liebherr control lever for LogHandler moving with operator's seat	•	
Liebherr key with remote control incl. Coming Home / Leaving Home function	+	
Multi-functional rail left	+	
Premiumdisplay (Touchscreen), with height adjustment and tilting function	•	
Preparation for radio installation	+	
Radio Liebherr "Comfort" (USB/AUX/BLUETOOTH/handsfree set)	+	
Radio Liebherr "Standard" (USB/AUX)	+	

# Safety

Operator's cab

Headlights rear, single design, LED Headlights rear, double design, LED

Windscreen guard mounted on lift arm

Sliding window left/right Slipcover for operator seat

Sunblind rear Sunblind front

Power socket 12V Power socket USB First aid kit

Wide angle mirror Cigarette lighter

Windscreen wiper single-sweep function with button

Preparation for protective ventilation and dust filtrating device

Interior rear-view mirror Amber beacon (left and right) LED Soundproof ROPS / FOPS cab Wipe and wash system

Active personnel detection at the rear incl. brake assistant		
Country-specific versions		
Emergency steering system	•	
Reversing obstruction detector	+	
Back-up alarm acoustic/visual	+	
Rear space monitoring with camera (with Liebherr camera via Liebherr display)		

- = Standard
- + = Option
- = not available

Further information can be found in the brochure "Assistance systems for wheel loaders" or you can find here:



Here you can download our wheel loader brochures:



# Liebherr-Werk Bischofshofen GmbH