The Liebherr L 580 wheel loader in LogHandler format has been developed especially for operations in the timber handling sector. The newly designed lifting gear means that the logs can be taken up from above at a great height, which makes the LogHandler particularly well-suited for work such as the loading and unloading of trucks or feeding bark removal and sorting installations. The grab can be rotated through 360° as well as pivoting forwards and backwards. Depending on the requirement, a very wide range of shapes and sizes of grab and grapple tools are available. The driver’s cab has a roof window, fitted as standard with a protective grille, to provide the best possible view upwards, and the protective grille for the front windscreen is integrated directly into the lifting gear. Like all Liebherr wheel loaders, the new LogHandler has a stepless hydrostatic drive system, which achieves impressive fuel savings. Other advantages are the practically wear-free service brake and the extremely low tyre wear.
**Economy**
Compared to conventional transmission, the Liebherr driveline achieves a reduction in fuel consumption for wheel loaders of 25% or more! Five litres less fuel per operating hour significantly reduce operating costs and environmental pollution.

**Performance**
The Liebherr driveline allows the Liebherr diesel engine to be mounted lengthways in the rear, with the output shaft facing backwards. Compared to conventionally driven wheel loaders, the operating weight is much lower, the tipping load is higher, and more material can be moved each operating hour.

**Reliability**
All the materials used in Liebherr wheel loaders have passed long-term tests to ensure that they match up to Liebherr’s exacting standards even in the toughest conditions. The mature concept and proven quality make Liebherr wheel loaders to the benchmark for reliability.

**Comfort**
The ultra-modern cab design with advanced ergonomics, continuously variable Liebherr driveline for uninterrupted tractive force, standard Liebherr ride control, optimum weight distribution and easy service access thanks to unique engine installation position lead to extraordinary overall comfort.
**LogHandler design**

**Special kinematic for timber handling**
- Piston rod protection
- Protective grille for Front windscreen mounted on lifting frame
- Five working area lights at front
- Automatic central lubrication system

**Cab with roof window including sun blind**
- Protective grille for cab roof window
- Washing system for cab roof window

**Liebherr control lever, electro-hydraulically controlled, adjustable using Liebherr touchscreen**

**Optional Stump ram, hydraulically lowered**
- Protective grille for travel lights
- Lamp carrier in steel format

**Tyres**
- Goodyear 775/65R29 GP-4D L4
- Michelin 800/65R29 XLD65 L3

**Grab-grapple variants / Areas of application**

<table>
<thead>
<tr>
<th>Tie-down device</th>
<th>Combination grapple</th>
<th>Heart-shaped grapple</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grapple sizes m³</td>
<td>3.2 / 3.6 / 3.8</td>
<td>2.8 / 3.2 / 3.6 / 3.8</td>
</tr>
<tr>
<td>Grapple closes tip on tip</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Vertical parting</td>
<td>△</td>
<td>✔️</td>
</tr>
<tr>
<td>Mass handling</td>
<td>✔️</td>
<td>✔️ ¹</td>
</tr>
<tr>
<td>Sorting</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Unloading trucks</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Box emptying</td>
<td>+</td>
<td>✔️</td>
</tr>
</tbody>
</table>

¹ Depending on job
**Technical Data**

### Engine

**Diesel engine**
- Design: Liebherr diesel engine, water-cooled, exhaust turbo charged with intercooler
- Cylinder inline: 6
- Combustion process: Unit pump (PLD) microprocessor controlled
- Rated output according to ISO 8824: 230 kW at 2,000 RPM
- Max. torque: 1,320 Nm at 1,300 RPM
- Displacement: 10.52 litres
- Bore/Stroke: 122/150 mm

The exhaust emissions are below the limits in stage IIIA / Tier 3.

### Tyres

Dimensions/weight are calculated for loaders equipped with Goodyear 775/65R29 GP-4D L4 tyres.

Dimensions/weight when fitted with Michelin 800/65R29 XLD65 L3 tyres are amended to:
- Operating weight: + 440 kg
- Vertical dimensions: + 20 mm

### Attachment Hydraulics

**Design**
- "Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block
- Cooling: Hydraulic oil cooling using thermostatically controlled fan and oil cooler
- Filtering: Return line filter in the hydraulic reservoir
- Control: "Liebherr-Joystick" with hydraulic servo control
- Lift circuit: Lifting, neutral, lowering
- Turning circle: Forwards, neutral, backwards
- Grapple swing: Forwards and backwards
- Grapple rotation: 360
- Max. flow: 400 l/min.
- Max. pressure: 320 bar

### Attachment

**Geometry**
- Powerful and stable “Log-Handler” lifting equipment for optimum lifting heights. 360° rotating grapple tool

### Operator’s Cab

**Design**
- On elastic bearing on rear section, soundproof ROPS/FOPS cab. Operator’s door with optional sliding window, 180° opening angle, fold-out window on right side with opening angle, front windshield made of compound safety glass, grey tinted as standard, side windows made of single-pane safety glass, grey tinted, continuously adjustable steering column and joystick control as standard, heatable rear window
- ROPS roll over protection per EN/ISO 3471/EN 474-1
- FOPS tainting objects protection per EN/ISO 3449/EN 474-1
- Liebherr Operator’s seat: 6-way adjustable seat with lap belt, vibration damping and suspension adjustable for the operator’s weight
- Cab heating and ventilation: Operator’s cab with 4-level air control, cooling water heating, defroster and air conditioning with electronic valve control, as well as electronic fresh/recirculated air control, filter system with pre-filter, fresh air filter and recirculated air filter, easily replaced, air conditioning as standard

### Noise Emission

**ISO 6396**

$L_{WA}$ (inside cab) = 69 dB(A)

$L_{WA}$ (surround noise) = 105 dB(A)

### Capacities

**Fuel tank**
- 350 l

**Engine oil (including filter change)**
- 43 l

**Pump distributor gears**
- 2.5

**Transmission**
- 11.5

**Coolant**
- 52 l

**Front axle**
- 58 l

**Rear axle**
- 50 l

**Hydraulic tank**
- 135 l

**Hydraulic system, total**
- 300 l

**Air condition system R134a**
- 780 g
Dimensions

<table>
<thead>
<tr>
<th>Rotating Grapple, 360°</th>
<th>3.2 m²</th>
<th>3.6 m²</th>
<th>3.8 m²</th>
<th>3.2 m²</th>
<th>3.6 m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Max. manipulation height with grapple closed mm</td>
<td>5,910</td>
<td>6,301</td>
<td>5,720</td>
<td>5,670</td>
<td>5,565</td>
</tr>
<tr>
<td>B Max. manipulation height with grapple open mm</td>
<td>6,355</td>
<td>6,804</td>
<td>6,267</td>
<td>6,250</td>
<td>6,185</td>
</tr>
<tr>
<td>C Manipulation height at max. outreach mm</td>
<td>2,410</td>
<td>2,801</td>
<td>2,220</td>
<td>2,170</td>
<td>2,065</td>
</tr>
<tr>
<td>D Lower manipulation area mm</td>
<td>823</td>
<td>432</td>
<td>1,013</td>
<td>1,063</td>
<td>1,168</td>
</tr>
<tr>
<td>E Max. height mm</td>
<td>9,120</td>
<td>9,120</td>
<td>9,120</td>
<td>9,120</td>
<td>9,120</td>
</tr>
<tr>
<td>F Outreach at max. lift height mm</td>
<td>2,675</td>
<td>2,675</td>
<td>2,675</td>
<td>2,675</td>
<td>2,675</td>
</tr>
<tr>
<td>F max. Max. outreach mm</td>
<td>3,970</td>
<td>3,970</td>
<td>3,970</td>
<td>3,970</td>
<td>3,970</td>
</tr>
<tr>
<td>G Height of grapple link mm</td>
<td>8,650</td>
<td>8,650</td>
<td>8,650</td>
<td>8,650</td>
<td>8,650</td>
</tr>
<tr>
<td>H Height above cab mm</td>
<td>3,590</td>
<td>3,590</td>
<td>3,590</td>
<td>3,590</td>
<td>3,590</td>
</tr>
<tr>
<td>I Height with grapple positioned longitudinally mm</td>
<td>5,050</td>
<td>5,050</td>
<td>5,050</td>
<td>5,050</td>
<td>5,050</td>
</tr>
<tr>
<td>J Height when max. outreach is attained mm</td>
<td>6,730</td>
<td>6,730</td>
<td>6,730</td>
<td>6,730</td>
<td>6,730</td>
</tr>
<tr>
<td>K Wheelbase mm</td>
<td>3,700</td>
<td>3,700</td>
<td>3,700</td>
<td>3,700</td>
<td>3,700</td>
</tr>
<tr>
<td>L Overall length mm</td>
<td>10,207</td>
<td>10,290</td>
<td>10,304</td>
<td>10,073</td>
<td>10,203</td>
</tr>
<tr>
<td>L max. Max. Total length at max. outreach mm</td>
<td>12,559</td>
<td>12,642</td>
<td>12,656</td>
<td>12,425</td>
<td>12,555</td>
</tr>
<tr>
<td>M Width over tyres mm</td>
<td>3,220</td>
<td>3,220</td>
<td>3,220</td>
<td>3,220</td>
<td>3,220</td>
</tr>
<tr>
<td>N Max. span with grapple open mm</td>
<td>4,403</td>
<td>4,038</td>
<td>4,771</td>
<td>4,415</td>
<td>4,495</td>
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<tr>
<td>P Height from top to top mm</td>
<td>2,740</td>
<td>2,349</td>
<td>2,930</td>
<td>2,980</td>
<td>3,085</td>
</tr>
<tr>
<td>Q Grapple cross-section mm</td>
<td>2,465</td>
<td>2,647</td>
<td>2,679</td>
<td>2,335</td>
<td>2,515</td>
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<tr>
<td>R Grapple weight kg</td>
<td>2,344</td>
<td>2,365</td>
<td>2,352</td>
<td>2,550</td>
<td>2,750</td>
</tr>
<tr>
<td>Z Jaw width mm</td>
<td>1,000</td>
<td>1,000</td>
<td>870</td>
<td>1,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Turning circle over lifting equipment with grapple positioned longitudinally mm</td>
<td>6,830</td>
<td>6,900</td>
<td>6,950</td>
<td>6,830</td>
<td>6,900</td>
</tr>
<tr>
<td>Turning circle over external edge of tyres mm</td>
<td>6,725</td>
<td>6,725</td>
<td>6,725</td>
<td>6,725</td>
<td>6,725</td>
</tr>
<tr>
<td>Turning circle over inner edge of tyres mm</td>
<td>3,500</td>
<td>3,500</td>
<td>3,500</td>
<td>3,500</td>
<td>3,500</td>
</tr>
<tr>
<td>Max. payload with 40° angle of articulation * kg</td>
<td>8,650**</td>
<td>8,625**</td>
<td>8,635**</td>
<td>8,590**</td>
<td>8,350**</td>
</tr>
<tr>
<td>Max. payload with 37° angle of articulation * kg</td>
<td>8,800**</td>
<td>8,780**</td>
<td>8,790**</td>
<td>8,650**</td>
<td>8,490**</td>
</tr>
<tr>
<td>Operating weight * kg</td>
<td>33,450**</td>
<td>33,470**</td>
<td>33,450**</td>
<td>33,650**</td>
<td>33,850**</td>
</tr>
<tr>
<td>Tyre sizes</td>
<td>775/65R29</td>
<td>775/65R29</td>
<td>775/65R29</td>
<td>775/65R29</td>
<td>775/65R29</td>
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<tr>
<td>Goodyear Goodyear Goodyear Goodyear Goodyear</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GP-4D GP-4D GP-4D GP-4D GP-4D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The figures shown here are valid with tyres above, includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment as well as chains or tie-down devices will change the operating weight and payload. The stump pusher increases the operating weight at 860 kg.

** Data with rear tyres filled with water

- Combination grapple; closes tip to tip
- Heart-shaped grab with chain as stump holder; closes tip on tip
## Equipment

### Basic Machine
- Exhaust pipe – stainless steel
- Automatic central lubrication system
- Battery master switch
- Fuel particle filter
- Electronic crowding force control
- Electronic theft protection with/without driver identification
- Automatic travel mode
- Headlights
- Ride control
- Fluff trap for radiator
- Large-mesh radiator
- Pre-heat system for cold starting
- Creep speed/Cruise control
- Combined inching-braking system
- Multi-disc limited slip differentials in both axles
- Noise suppression package
- LED lights on the rear flap
- LiDAT Standard (Liebherr Data Transfer System)
- LiDAT Plus (extended Liebherr Data Transfer System)
- Liebherr travel gear
- Liebherr bio degradable hydraulic oil
- Air cleaner system with pre-filter
- Reversible fan drive
- Emergency steering system
- Back-up alarm
- Lockable doors, service flap and engine hood
- Extension for fenders and rear mudguards
- Tool box with toolkit
- Weighing device (integrated)
- Towing hitch
- Two working area lights at rear
- Two tail lights
- 20 km/h speed limiting

### Instruments for:
- Timer for hours of operation
- Flashing turn indicators
- Diagnosis system
- Rev. counter
- Forward – reverse travel
- Travel speed ranges and gear selected
- High-beam headlights
- Fuel reserve
- Engine oil temperature
- Reverse travel
- Speedometer
- Clock
- Diesel engine pre-heat
- Forward travel

### Warning Lights for:
- Battery charge
- Flow through emergency steering system
- Parking brake
- Hydraulic oil temperature
- Engine oil pressure
- Engine overheat

### Audible Warnings for:
- Overheat of hydraulic fluid
- Engine oil pressure
- Engine overheat
- Emergency steering system

### Function Keys for:
- Working lights rear
- Working lights front
- Electronic tractive force adaptation
- Speed range selection
- Headlights
- Ride control
- Parking brake
- Blower
- Heater
- Air conditioning
- Creep speed
- Steering column switch for direction of travel
- Mode switch
- Amber beacon
- Wash/wipe system for rear window
- Road travel
- Transport position (at operating lever)
- Hazard warning flashers
- Additional hydraulics

### Equipment
- Rotating Grapple, 360°
- Electro-hydraulic control of the working hydraulics
- Loghandler lifting gear with protective grille for front windscreens
- Modular blade system for grapple
- Stump ram

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* = Standard, + = Option, – = not available
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 38,000 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