Crawler Excavator

**R 924**

- **Motor:**
  - 125 kW / 170 HP
  - Stage IIIA / Tier 3
- **Operating Weight:**
  - 23,650 – 24,600 kg
- **Bucket Capacity:**
  - 0.80 – 1.65 m³
R 924 Litronic

Motor:
125 kW / 170 HP
Stage IIIA / Tier 3

Operating Weight:
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Bucket Capacity:
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Performance
Performance, precision and responsiveness
Efficiency
High level of productivity for a lower overall operating cost

Reliability
Result of ongoing improvements

Comfort
Spacious, ergonomic and with high-visibility

Maintainability
Simplified daily checks, longer maintenance intervals
Performance

Performance, precision and responsiveness
Advanced techniques heighten performance
In its design offices, Liebherr combines the technological know-how of each area to create consistent and optimised integrated systems. Liebherr’s electronics, positive control hydraulics, and even the travel motors are designed from the start to be interconnected and generate optimum operating power with fast and fluid movements.

Positive Control hydraulic system
Two working pumps for maximum excavation, travel or swing efficiency, provide power to the components involved. Thanks to the positive control system, the combined movements are optimised for each different work operation, whether this be levelling, extraction, loading or lifting, with or without travel.

Particularly fast work cycles
The work cycles of the R 924 are very fast thanks to the large sized transmission components. For example, the uppercarriage’s swing drive can quickly reach its maximum speed with a high swing torque.

Operating pressure
Maximum digging and break-out forces can be reached thanks to the level of hydraulic pressure, without applying temporary overpressure. Maximum forces are therefore guaranteed continuously during the whole working phase to achieve a high level of production. To further improve the machine performances, the equipment speed is optimized through an integrated regeneration circuit.

Engine
- Cummins engine Stage IIIA/Tier 3
- Designed specifically for construction applications
- Automatic fuel-saving idling system
- “Wastegate” turbo for enhanced performances at low speed and reduced consumption

Undercarriage
- Robust design for greater resistance and a better distribution of forces
- Easy and safe transport thanks to integrated lashing eyes
- Two different types of undercarriages adapted to different operating configurations and transport conditions

Productivity and flexibility
- Higher digging and break-out forces for increase in productivity
- New optional pads available in 700 and 800 mm for more versatility
- New swing motor for higher swing torque and speed
High level of productivity for a lower overall operating cost
Less fuel
Associated with the latest developments in technology and hydraulics, the tried-and-tested 6-cylinder Cummins engine consumes little fuel, both in terms of hours of operation and in terms of tons of material moved.

Increased productivity
Clearly enhanced performances and low consumption, combined with the largest fuel tank on the market, all in a comfortable and ergonomic work environment, lead to significant increases in productivity in all operating configurations.

Electronic power control
This control system allows the engine power to be effectively and optimally converted, from an energetic point of view, into hydraulic power. This results in greater forces, a faster working speed and a lower fuel consumption.

Liebherr Lubricants
- Liebherr offers you a full range of lubricants and coolants for your Liebherr machines
- Being designed especially for your Liebherr machines, Liebherr lubricants contribute significantly to lowering your operating and maintenance costs

Liebherr tools
- Wide range of tools suitable for every type of application
- Tools designed for maximum productivity and durability
- Shape of buckets designed to assist the filling and stability of bulky materials during the transport stages

Modular quick-change system made by Liebherr
- The suitable digging tool for every application
- The optional quick-change system pays for itself very quickly and your machine becomes a multifunctional tool carrier
Reliability

Result of ongoing improvements
Quality in the smallest details
Robust and large-sized components, optimal fitting of electrical and hydraulic lines, or an exemplary level of finishing are just some of the many criteria that ensure a maximum quality of manufacture and operability.

A top-of-the-range anti-corrosion protection
A pre-assembly painting process guarantees that all painted parts are fully coated. The use of a high-quality paint provides resistance against extreme external conditions.

Perfect match
The individual components of the power train such as the diesel engine, gears, swing drive, working pumps and hydraulic cylinders are specifically dimensioned to work together. This means that they are all compatible with each other in a global system, guaranteeing higher reliability and a longer service life.

Automatic control of functionality
The operator can entirely focus on his job, because the integrated on-board electronic continuously performs a comparison with pre-determined target data. Eventual deviations from the target parameters are shown on the display.

Cummins engine
- Proven reliability
- Service and spare parts available worldwide
- Optimal utilisation even with high sulphur fuel
- Common rail injection system compatible with fuels containing a higher level of sulphur, for a worldwide use
- Bio-diesel compatibility

Key technologies – Made by Liebherr
- Perfect matching of the components to construction machine operations
- The electronic components, mastermind of the machine, are manufactured by Liebherr
- Main steel components, such as undercarriage, equipment modules, and slewing superstructure, all designed by Liebherr

Spare parts service
- Any spare parts required are available worldwide within 24 hours. And that means high operational readiness of the machines, wherever, whenever
- Over 80,000 spare parts in stock at all times
Spacious, ergonomic and with high-visibility
A first class work space
In this cab, the operator benefits from a high-quality mechanical suspension seat, an enlarged space and a very comfortable working environment. Depending on the operator’s needs, the “Comfort” seat can be selected as an option. This seat offers maximum comfort thanks to its air suspension, several horizontal and vertical settings, as well as its adjustable pneumatic lumbar support. It is especially designed to meet the most challenging comfort requirements of operators, in all working situations.

Low noise level and vibrations
To diminish fatigue at work and increase productivity, the acoustic power inside the operator’s cab is one of the lowest on the market. The cab is mounted on viscoelastic rivets to fully absorb the excavator’s vibrations. Furthermore, rubber flanges support the pipes and actively participate in reducing external noise.

Uncompromised visibility
The very large glazed surface area and minimal area of frames guarantee optimal visibility from the operator’s platform, as well as a wide emergency exit from the rear window for the operator’s safety and peace of mind.

Ergonomic proportional joysticks
The proportional joysticks are very finely tuned controls for the sensitive, accurate and fluid operation of the machine. This type of control is ideal for a machine used in a variety of applications.

Touch-screen display
- 7-inch touch-screen with colour display
- Wide range of adjustment, check, and monitoring possibilities
- Tough, reliable design (sealing tightness class IP 65)

Heightened visibility
- Optional rear view monitoring camera, for optimal visibility and heightened operating safety
- Optimized design of the whole uppercarriage providing the operator with an improved field of vision
- Front windshield fully retractable into the roof, with or without lower glass panel
- Secure emergency exit through the rear window

Optimal temperature
- Enhanced air-conditioning system, providing improved cooling performances
- Optional dark tinted windows
Maintainability

Simplified daily checks, longer maintenance intervals
Ease of maintenance
All the walking areas of the uppercarriage are covered with anti-slid material to guarantee a safe and easy access. The swing gear is greased for life and requires no daily maintenance. The batteries, all filters and most centralized lubrication points are accessible from ground level, ensuring that daily maintenance and checks are quick and easily performed.

Simplified daily checks
The daily checks were taken into account from the start of the design, to make them simpler, more accessible and shorter. The optional automatic lubrication system reduces precious servicing time while guaranteeing optimal lubrication of the excavator.

Longer service intervals
The frequency of the service intervals is optimised to guarantee that each part is operating optimally and that the maintenance operations are only performed as necessary. Whether it is the interval for changing the hydraulic oil, which can be up to 3,000 hours, or the interval for changing the engine oil, every 500 hours, everything has been taken into account to reduce the frequency of interventions and thus limit the machine’s downtime and reduce costs.

Expert advice and service provisions
Liebherr offers an expert advice service. Qualified personnel will help you make the appropriate decisions to meet your needs: sales discussion based on the application, service agreements, advantageous repair alternatives, original parts management, and remote data transfer for fleet management.

LiDAT data transfer system
- Complete fleet management, all from one source
- Optimized economical performance of the machine park thanks to detailed view of the distribution of operating states and times
- Reports on capacity commitment and the use of the machine park can be called up daily via the Web portal
- Precise location of the machine
- Regional delimitation and fixed service times increase safety and reliability

Accessibility to service areas
- Access to batteries and filters from ground level
- Access platform to engine oil dipstick

Central lubrication system
- The manual central lubrication system (3 points), fitted as standard, allows for daily lubrication of elements and reduction of machine downtimes
- The optional automatic lubrication system provides only the required amount of grease to the various components and increases their lifetime. It avoids spillage and waste, and quickly pays for itself
Long live progress with the R 924

Equipment
- High digging and breakout forces
- Integrated regeneration circuit
- Fast combined movements
- Cast steel elements
- Greater resistance to stresses
- Longer service life

Tools
- Large standard and HD buckets
- New bucket design
- Z-type Liebherr teeth for fast replacement
- Wide range of work tools

Undercarriage
- Special heat treatment for low wear and tear of drive sprockets
- Robust construction
- Redesigned and strengthened
- New travel motors for increased drawbar pull
- Integrated lashing eyes
Centralized lubrication
- Reduced maintenance time
- Longer service life thanks to better lubrication

Operator’s cab
- Comfortable and ergonomic
- New 7” high resolution color touchscreen for heightened readability, easy to use and with more information available
- Large glazed surface area with secure emergency exit through the rear window
- Efficient air conditioning
- European Design

Engine
- Proven reliability
- Extra large fuel tank
- Low fuel consumption
- Longer autonomy
- On-demand hydrostatic driven fan

Uppercarriage
- New swing motor and gearbox for higher swing torque and speed
- Swing gear greased for life
- Steel doors and engine bonnet
- All walking areas covered with anti-slip material
- Ground level access to all filters and batteries
- Optimized design of the whole uppercarriage providing the operator with a better field of vision
- Optional rear view monitoring camera
## Technical Data

### Engine

<table>
<thead>
<tr>
<th>Rating per SAE J1995/ISO 3046</th>
<th>125 kW (170 HP) at 1,800 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Cummins QSB 6.7</td>
</tr>
<tr>
<td>Type</td>
<td>6 cylinder in-line</td>
</tr>
<tr>
<td>Displacement</td>
<td>107 / 124 mm</td>
</tr>
<tr>
<td>Engine operation</td>
<td>4-stroke diesel</td>
</tr>
<tr>
<td>Exhaust gas treatment</td>
<td>emission standard stage IIIA / Tier 3</td>
</tr>
<tr>
<td>Cooling system</td>
<td>water-cooled and integrated motor oil cooler, after-cooled and water-cooled</td>
</tr>
<tr>
<td>Air cleaner</td>
<td>dry-type air cleaner with pre-cleaner, primary and safety elements</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>580 l</td>
</tr>
<tr>
<td>Fuel cleaner</td>
<td>pre-filter (7 μm) and fine filter (5 μm) for the fuel supply system</td>
</tr>
</tbody>
</table>

**Electrical system**

- Voltage: 24 V
- Batteries: 2 x 135 Ah / 12 V
- Starter: 24 V / 7.8 kW
- Alternator: three-phase current 24 V / 70 A
- Engine idling: sensor controlled
- Motor management: connection to the integrated excavator system controlling via CAN-BUS to the economical utilisation of the service that is available

### Hydraulic System

<table>
<thead>
<tr>
<th>Hydraulic system</th>
<th>Positive Control dual circuit hydraulic system for independent and need-based quantity allotment via the hydraulic pumps; sensor-guided features high system dynamics and sensibility provided by integrated system controlling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regeneration</td>
<td>integrated into the main hydraulic block</td>
</tr>
<tr>
<td>Hydraulic pump</td>
<td>variable double pump, in-line and swashplate</td>
</tr>
<tr>
<td>Max. flow</td>
<td>2 x 216 l/min.</td>
</tr>
<tr>
<td>Max. pressure</td>
<td>350 bar</td>
</tr>
<tr>
<td>Pump management</td>
<td>electronic pump management via the integrated system controlling (CAN-BUS) synchronous to the control block</td>
</tr>
<tr>
<td>Hydraulic tank</td>
<td>100 l</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>max. 300 l</td>
</tr>
<tr>
<td>Hydraulic oil filter</td>
<td>1 full flow filter (10 μm)</td>
</tr>
<tr>
<td>Cooling system</td>
<td>compact radiator, comprising cooling unit for water, hydraulic oil, after-cooler and hydrostatically driven fan</td>
</tr>
<tr>
<td>MODE selection</td>
<td>adjustment of engine and hydraulic performance via a 3-mode selector to match application, e.g. ECO mode for economical and environmentally friendly operation or POWER+ mode for maximum digging performance and heavy-duty jobs</td>
</tr>
<tr>
<td>RPM adjustment</td>
<td>stepless adjustment of engine output via RPM at each selected mode</td>
</tr>
<tr>
<td>Tool Control</td>
<td>10 preadjustable pump flows and pressures for add-on tools</td>
</tr>
</tbody>
</table>

### Hydraulic Controls

The controlling is conducted via the integrated excavator system technology, input and output modules, communicated via the CAN-BUS with the electronic central unit.

<table>
<thead>
<tr>
<th>Power distribution</th>
<th>via control valve with integrated safety valves to boom and stick</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow summation</td>
<td>proportional via joystick levers</td>
</tr>
<tr>
<td>Attachment and swing</td>
<td>proportional via joystick levers</td>
</tr>
<tr>
<td>Travel</td>
<td>– with proportionally functioning foot pedals and lever – speed pre-selection or automatic adjustment</td>
</tr>
<tr>
<td>Additional functions</td>
<td>proportional regulation via foot pedals or rocker</td>
</tr>
</tbody>
</table>

### Swing Drive

- Drive: swashplate motor, shockless and antireaction
- Transmission: compact planetary reduction gear
- Swing ring: sealed race ball bearing swing ring, internal teeth
- Swing speed: 0 – 11.3 RPM stepless
- Swing torque: 73.3 kNm
- Holding brake: wet multi-disc (spring applied, pressure released)
### Operator’s Cab

**Cab**
- ROPS (option) safety cab structure with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the roof, a door with a sliding window (can be opened on both sides), large storing possibilities, shock-absorbing suspension, sounddamping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windshield, 24 V plug, 12 V optional, bottle holder

**Operator’s seat**
- Standard seat, air-sprung with mechanic weight adjustment, vertical seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination

**Control system**
- Arm consoles, moving with the seat

**Operation and displays**
- Large high-resolution colour display with selfexplanatory operation via touchscreen, versatile adjusting, control and monitoring facilities, e.g. implement and tool parameters

**Air-conditioning**
- Standard automatic air-conditioning, ambient air function, fast de-icing and demisting at the press of a button, air vents can be operated using special buttons. Filter for recycling and fresh air filter can be replaced and are accessible from the inside. Heating-cooling unit, designed for extreme outside temperatures

### Undercarriage

<table>
<thead>
<tr>
<th>Versions</th>
<th>S</th>
<th>LC</th>
</tr>
</thead>
<tbody>
<tr>
<td>gauge</td>
<td>2,380 mm</td>
<td>2,590 mm</td>
</tr>
</tbody>
</table>

**Drive**
- Liebherr swashplate motors with integrated brake valves on both sides

**Transmission**
- Liebherr compact planetary reduction gears

**Travel speed**
- Low range – 3 km/h
- High range – 5 km/h

**Net drawbar pull oncrawler**
- 228 kN

**Track components**
- B60, maintenance-free

**Track rollers/Carrier rollers**
- S: 8/2
- LC: 9/2

**Tracks**
- Sealed and greased

**Track pads**
- Triple grouser

**Holding brake**
- Wet multi-disc (spring applied, pressure released)

**Brake valves**
- Integrated into travel motor

**Lashing eyes**
- Integrated

### Attachment

<table>
<thead>
<tr>
<th>Type</th>
<th>combination of resistant steel plates and cast steels components</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hydraulic cylinders</strong></td>
<td>Cylinders with special seal-system, shock protection</td>
</tr>
<tr>
<td><strong>Bearings</strong></td>
<td>Sealed, low maintenance</td>
</tr>
<tr>
<td><strong>Lubrication</strong></td>
<td>Manual central lubrication system or optional automatic central lubrication system (except link and tilt geometry)</td>
</tr>
<tr>
<td><strong>Hydraulic connections</strong></td>
<td>Pipes and hoses equipped with SAE splitflange connections</td>
</tr>
</tbody>
</table>
### S-Undercarriage

<table>
<thead>
<tr>
<th>Stick length</th>
<th>Mono boom 5.90 m (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>2.00 6.600</td>
</tr>
<tr>
<td></td>
<td>2.50 6.050</td>
</tr>
<tr>
<td></td>
<td>3.00 5.400</td>
</tr>
<tr>
<td>W</td>
<td>2.00 3.250</td>
</tr>
<tr>
<td></td>
<td>2.50 3.300</td>
</tr>
<tr>
<td></td>
<td>3.00 3.300</td>
</tr>
<tr>
<td>X</td>
<td>2.00 9.950</td>
</tr>
<tr>
<td></td>
<td>2.50 9.950</td>
</tr>
<tr>
<td></td>
<td>3.00 9.950</td>
</tr>
</tbody>
</table>

### LC-Undercarriage

<table>
<thead>
<tr>
<th>Stick length</th>
<th>Mono boom 5.90 m (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>2.00 6.700</td>
</tr>
<tr>
<td></td>
<td>2.50 6.150</td>
</tr>
<tr>
<td></td>
<td>3.00 5.500</td>
</tr>
<tr>
<td>W</td>
<td>2.00 3.250</td>
</tr>
<tr>
<td></td>
<td>2.50 3.300</td>
</tr>
<tr>
<td></td>
<td>3.00 3.300</td>
</tr>
<tr>
<td>X</td>
<td>2.00 9.950</td>
</tr>
<tr>
<td></td>
<td>2.50 9.950</td>
</tr>
<tr>
<td></td>
<td>3.00 9.950</td>
</tr>
</tbody>
</table>

* width with removable steps

### S

<table>
<thead>
<tr>
<th>A</th>
<th>2,700</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>3,060</td>
</tr>
<tr>
<td>D</td>
<td>2,800</td>
</tr>
<tr>
<td>E</td>
<td>2,820</td>
</tr>
<tr>
<td>H</td>
<td>2,490</td>
</tr>
<tr>
<td>K</td>
<td>1,125</td>
</tr>
<tr>
<td>L</td>
<td>3,640</td>
</tr>
<tr>
<td>P</td>
<td>960</td>
</tr>
<tr>
<td>Q</td>
<td>465</td>
</tr>
<tr>
<td>S</td>
<td>2,380</td>
</tr>
<tr>
<td>U</td>
<td>4,440</td>
</tr>
<tr>
<td>N</td>
<td>600</td>
</tr>
<tr>
<td>B</td>
<td>2,980</td>
</tr>
<tr>
<td>G</td>
<td>2,920</td>
</tr>
</tbody>
</table>

### LC

<table>
<thead>
<tr>
<th>A</th>
<th>2,700</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>3,060</td>
</tr>
<tr>
<td>D</td>
<td>2,800</td>
</tr>
<tr>
<td>E</td>
<td>2,820</td>
</tr>
<tr>
<td>H</td>
<td>2,490</td>
</tr>
<tr>
<td>K</td>
<td>1,125</td>
</tr>
<tr>
<td>L</td>
<td>3,830</td>
</tr>
<tr>
<td>P</td>
<td>960</td>
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<tr>
<td>Q</td>
<td>465</td>
</tr>
<tr>
<td>S</td>
<td>2,590</td>
</tr>
<tr>
<td>U</td>
<td>4,630</td>
</tr>
<tr>
<td>N</td>
<td>600</td>
</tr>
<tr>
<td>B</td>
<td>3,190</td>
</tr>
<tr>
<td>G</td>
<td>3,130</td>
</tr>
</tbody>
</table>

* width with removable steps
## Backhoe Bucket

with Mono Boom 5.90 m and Counterweight 4.5 t

### Digging Envelope

<table>
<thead>
<tr>
<th>Sticks length (m)</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. digging depth (m)</td>
<td>2.00</td>
<td>2.50</td>
<td>3.00</td>
</tr>
<tr>
<td>Max. reach at ground level (m)</td>
<td>5.95</td>
<td>6.45</td>
<td>6.95</td>
</tr>
<tr>
<td>Max. dumping height (m)</td>
<td>6.50</td>
<td>6.70</td>
<td>6.95</td>
</tr>
<tr>
<td>Max. teeth height (m)</td>
<td>9.35</td>
<td>9.60</td>
<td>9.85</td>
</tr>
</tbody>
</table>

### Digging Forces

<table>
<thead>
<tr>
<th>Digging force ISO (kN)</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakout force ISO (kN)</td>
<td>157</td>
<td>135</td>
<td>119</td>
</tr>
</tbody>
</table>

### Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 4.5 t, mono boom 5.90 m, stick 3.00 m and bucket 1.25 m³ (890 kg).

<table>
<thead>
<tr>
<th>Undercarriage</th>
<th>Pad width (mm)</th>
<th>Weight (kg)</th>
<th>Ground pressure (kg/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLC</td>
<td>600</td>
<td>23,650</td>
<td>0.50</td>
</tr>
<tr>
<td>LC</td>
<td>700</td>
<td>23,950</td>
<td>0.44</td>
</tr>
<tr>
<td></td>
<td>800</td>
<td>24,200</td>
<td>0.39</td>
</tr>
</tbody>
</table>

### Buckets

Machine stability per ISO 10567* (75% of tipping capacity)

<table>
<thead>
<tr>
<th>Cutting width (mm)</th>
<th>Capacity ISO 7451</th>
<th>ISO 10567</th>
<th>Weight (kg)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-Undercarriage</td>
<td></td>
<td></td>
<td>without quick coupler</td>
<td>with quick coupler</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.00</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,000</td>
<td>800</td>
</tr>
<tr>
<td>LC-Undercarriage</td>
<td></td>
<td></td>
<td>without quick coupler</td>
<td>with quick coupler</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.00</td>
<td>2.50</td>
</tr>
</tbody>
</table>

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground

1) Standard bucket with teeth Z 40
2) HD bucket with teeth Z 40
3) Bucket for direct mounting
4) Bucket for mounting to quick coupler (SW48, 250 kg)

Other buckets available upon request

Max. material weight: ▲ = ≤ 2.0 t/m³, ■ = ≤ 1.8 t/m³, ▲ = ≤ 1.65 t/m³, ▲ = ≤ 1.5 t/m³, ▲ = ≤ 1.2 t/m³
### Lift Capacities

with Mono Boom 5.90 m and Counterweight 4.5 t

#### Stick 2.00 m

<table>
<thead>
<tr>
<th>m</th>
<th>Under-carriage</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>m</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5</td>
<td>S</td>
<td>4.8</td>
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The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 320 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity. According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Standard Equipment

**Undercarriage**
- Lashing eyes
- Sprocket with dirt ejector
- Track guide (one piece per track frame)
- Track pads 600 mm
- Track rollers, lifetime-lubricated
- Tracks, sealed and greased

**Operator’s Cab**
- 7” colour multifunction display with touchscreen
- Air conditioning, automatic
- Cigarette lighter and ashtray
- Coat hook
- Cup holder
- Footrest
- Front windshield fully retractable into the roof, with or without lower glass panel
- Fuel consumption indicator on touchscreen
- Headlights (two pieces, Halogen)
- Interior light
- Mechanical hour meters, readable from outside the cab
- MP3 radio
- Operator seat with mechanical damping
- Rain hood over front window opening
- Rearview mirrors
- Rear window emergency exit
- Retractable seat belt 51 mm
- Roll-down sun blind
- Roof window, right window and windshield with safety glass
- Rubber floor mat
- Sliding windows in cab door
- Storage bin
- Storage space
- Tinted windows
- Viscoelastic damping
- Wiper/washer

**Upper carriage**
- Anti-slip surfaces
- Engine hood with gas spring opening
- Handrails
- Manual central lubrication system
- Manual main switch
- Storage box, lockable
- Swing brake lock, maintenance-free
- Tool set 33 pieces

**Hydraulic System**
- Filter with integrated fine filter
- Hydraulic pressure test ports
- Liebherr hydraulic oil
- Positive Control system
- Pressure accumulators for controlled lowering of equipment with engine turned off
- Work mode selector

**Engine**
- Automatic engine idling
- Common-Rail injection system
- Conform with stage IIIA / Tier 3 emission standard
- Fuel filter and water separator
- Intercooler
- Oil level
- Stepless adjustable engine speed
- Turbo charger

Non-exhaustive list, please contact us for further information.
## Options

### Undercarriage
- Steps, wide version for 700 mm and 800 mm track pads
- Track guides (three pieces per track frame)
- Track guides (two pieces per track frame)
- Track pads 700 mm, 800 mm

### Operator’s Cab
- Additional front and/or rear cab headlights (Halogen or LED)
- Amber beacon
- Auxiliary heater (programmable)
- Dark tinted windows
- Electric socket (12 V)
- Emergency stop button in cab
- Falling objects protection structure (FOPS)
- Front guard protection structure (FGPS)
- Front headlights (two pieces, LED)
- Handrest for joysticks
- Liebherr proportional control (mini-joysticks 2 axis)
- Operator seat “Comfort” with pneumatic damping and retractable seat belt
- Preparation for LiDAT (Liebherr data transfer system)
- Protection guard (bottom front window and/or roof window)
- Rear view monitoring camera
- ROPS safety cab structure (ISO 12117-2)
- Sun visor
- Travel alarm

### Attachment
- Additional headlight on boom (left, Halogen or LED)
- Automatic central lubrication system
- Bottom protection for boom
- Bottom protection for stick
- Filter for hydraulic hammer return flow
- Headlight on boom (right, LED)
- High pressure circuit
- Hydraulic or mechanical quick coupler
- Liebherr bucket range
- Liebherr tooth system
- Medium pressure circuit
- Overload warning device
- Safety check valves for stick cylinder
- Safety check valves on hoist cylinders
- Tool Control, 10 tool adjustments selectable via display

### Uppercarriage
- Automatic central lubrication system
- Diesel refuelling pump (electric)
- Electric socket for external start-up aid (24 V)
- Fuel anti-theft device
- Fuel tank cap lockable with padlock
- Rearview mirror on counterweight
- Right-hand rearview mirror

### Hydraulic System
- Liebherr hydraulic oil, adapted for extreme climate conditions

### Engine
- Air pre-filter with dust trap
- Fuel preheating (24 V)

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Non-exhaustive list, please contact us for further information.

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

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