• Engine Output: 105 kW
• Bucket Capacity: 1,15 m³
• Operating Weight: 22,850 kg
HYDRAULIC EXCAVATOR

**ENGINE**

- Rating per ISO 9249: 105 kW at 1,800 rpm
- Model: Liebherr D 934 S
- Type: 4 cylinder in-line
- Bore/Stroke: 122/136 mm
- Displacement: 6.36 l
- Engine operation: 4-stroke diesel
  - Unit pump system
  - Turbo-charged
  - After-cooled and fuel cooled
- Cooling: Water-cooled and integrated motor oil cooler
- Air cleaner: Dry-type air cleaner with pre-cleaner, primary and safety elements

**REFILL CAPACITIES**

- Fuel tank: 380 l
- Hydraulic tank: 290 l
- Hydraulic system: max. 500 l

**ELECTRICAL SYSTEM**

- Voltage: 24 V
- Batteries: 2 x 135 Ah/12 V
- Starter: 24 V/6.6 kW
- Alternator: Three phase current 28 V/80 A
- Engine idling: Sensor-controlled

**HYDRAULIC SYSTEM**

- Positive Control dual circuit hydraulic system for independent and need-based flow control
- Liebherr variable displacement pump built in transversal plate style, in parallel arrangement with integrated transfer box
- Max. flow: 2 x 214 l/min
- Max. pressure: 350 bar
- Pump regulation: Electro-hydraulic with electronic engine speed sensing regulation, pressure compensation, flow compensation, automatic oil flow optimizer, swing circuit with priority and torque control. 2 independent circuits with hydraulic pump summation for individual equipment movements
- Hydraulic oil filter: 1 full flow filter (20 μm) in return line with integrated fine filter area (5 μm)
- Hydraulic oil cooler: Compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan

**SYSTEMS**

- Hydraulic pump system
- Engine idling: Sensor-controlled

**HYDRAULIC CONTROLS**

- Mode selection
  - Liebherr Tool Control
- RPM adjustment
  - Joystick control, demand regulated by a hydraulic valve block
  - Via control valve with integrated safety valves
- Servo circuit
  - Attachment and swing
    - Proportional via joystick levers
    - Travel
      - with proportionally functioning foot pedals or adjusted with a plugable lever
      - speed pre-selection
- Additional functions
  - Via foot pedals or buttons

**SWING DRIVE**

- Drive by
  - Liebherr swash plate motor
- Transmission
  - Liebherr compact planetary reduction gear
- Swing ring
  - Liebherr, sealed single race ball bearing swing ring, internal teeth
- Swing speed
  - 0 – 11 rpm stepless
- Swing torque
  - 71.1 kNm
- Holding brake
  - Wet multi-disc (spring applied, pressure released)

**ATTACHMENT**

- Type: Combination of resistant steel plates and forged components
- Hydraulic cylinders
  - Liebherr cylinders with special seal-system, shock absorbed
- Pivots
  - Sealed, low maintenance
- Lubrication
  - Semi-automatic central lubrication system (except link and tilt geometry)
- Hydraulic connections
  - Pipes and hoses equipped with SAE split flange connections
- Bucket
  - Fitted as standard with Liebherr tooth system

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The lift capacities on the load hook without attachment are stated in metric tonnes (t), and can be lifted 360° on firm, level supporting surface. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide triple-grouser pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated by *) or are limited through the allowed lift capacity. Without quick change adapter the lift capacities will increase by 250 kg, without bucket cylinder, link and lever they increase by an additional 365 kg.
**STANDARD EQUIPMENT**

**Undercarriage**
- Lifetime-lubricated track rollers
- Tracks sealed and greased
- Track guide at each track frame
- Sprocket with dirt ejector
- Lashing eyes
- Two-stage travel motors

**Uppercarriage**
- Handrails, non slip surfaces
- Engine hood with lift help
- Sound insulation
- Maintenance-free swing brake lock
- Maintenance-free HD-batteries
- Lockable tool box
- Tool kit

**Hydraulics**
- Hydraulic tank shut-off valve and pumps
- Pressure test ports for hydraulic
- Pressure storage for controlled lowering of equipment with engine turned off
- Electronic pump regulation
- Filter with integrated fine filter area (5 µm)
- Steppless work mode selector
- Positive Control Classic
- Regeneration Plus function on hydraulic circuit
- Hydraulic control logic

**Engine**
- Turbo charger
- Conform with level IIIA / Tier 3 emission standard
- After-cooled
- Unit pump system injection
- Sensor controlled engine idling
- Dry-type air cleaner w/pre-cleaner, main and safety element

**Operator’s Cab**
- Storage bin
- Mechanical hour meters, readable from outside the cab
- Sunroof, right window and windshield with safety glass
- Seat with mechanical suspension
- Closed storage space
- Rubber floor mat
- Dome light
- Coat hook
- Automatic air conditioning Classic
- Multifunction display
- Emergency exit rear window
- Preparation for radio installation
- Right window made of one piece (without post)
- Rain hood over front window opening
- All tinted windows
- Door with sliding window
- Seat belt
- Sun roller blind
- Load bearing sectional profile structure, covered with deepdrawn panels
- Wiper/washer
- Cigarette lighter and ashtray
- Two flood lights under rain hood
- Warning Beacon

**Attachment**
- 12 t lifting hook with safety link on quick coupler
- Liebherr semi-automatic central lubrication system (except connecting link for bucket kinematics)
- Additional work light on boom (right)
- Cylinders with shock absorbers

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All dimensions are shown in millimetres, unless otherwise stated between brackets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. Photographs featured in this brochure may include optional equipment.