

R 940 Litronic

LIEBHERR

Demolition excavator



Generation
6

Engine
268 HP / 200 kW
Tier 4 Final

Operating weight
63,900 kg / 140,880 lb

Working height
23 m / 75'6"
H/2: 20 m / 65'7"

Technical data

Engine

| | |
|------------------------------|--|
| Rating | 268 HP (200kW) at 1,800 rpm |
| per SAE J1349 | 272 HP (200kW) at 1,800 rpm |
| per ISO 9249 | 1,400 Nm at 1,100 rpm / 1,033 lbf ft at 1,000 rpm |
| Torque | |
| Model | Liebherr D944 A7-24 |
| Type | 4 cylinder in-line |
| Bore | 130 mm / 5.1 in |
| Stroke | 150 mm / 5.9 in |
| Displacement | 7.964 l / 486 in³ |
| Engine operation | 4-stroke diesel Common-Rail, monoturbo |
| Exhaust gas treatment | Stage V DOC + SCR Filter Passive regeneration by thermo management |
| Cooling system | Water-cooled and integrated motor oil cooler, after-cooled and fuel cooled |
| Air cleaner | Dry-type air cleaner with pre-cleaner, primary and safety elements |
| Fuel tank | 770 l / 203 gal |
| Urea tank | 90 l / 24 gal |
| Electrical system | |
| Voltage | 24V |
| Batteries | 2 x 180 Ah / 12V |
| Starter | 24V / 7.8 kW |
| Alternator | Three-phase current 28V / 140A |
| 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 controls

| | |
|-----------------------------|---|
| Power distribution | Via control valves in single block with integrated safety valves |
| Flow summation | To boom and stick |
| Closed-loop circuit | For uppercarriage swing drive |
| Servo circuit | |
| Equipment and swing | Proportional via joystick levers |
| Travel | - Proportional control via foot pedals or removable levers - Speed pre-selection |
| Additional functions | Proportional regulation via foot pedals or mini-joystick |

Hydraulic system

| | |
|-----------------------------------|---|
| Hydraulic system | Positive Control hydraulic system. Demand-based, double independent pump flows Features high system dynamics and sensitivity provided by integrated system controlling Independent circuit for rotation |
| Hydraulic pumps | Liebherr, variable displacement, swashplate double pump 2 x 315 l/min. / 2 x 83 gpm |
| Max. flow | 380 bar / 5,511 psi |
| Max. pressure | Reversible, variable displacement, swashplate pump, closed-loop circuit |
| For swing drive | 205 l/min. / 54 gpm |
| Max. flow | 400 bar / 5,802 psi |
| Pump management | Electronic pump management via the integrated system controlling (CAN-BUS) synchronous to the control block |
| Hydraulic tank | 380 l / 100 gal |
| Hydraulic system | 1,100 l / 291 gal with demolition equipment |
| Filtration | 1 full flow filter (10 µm) in return line with integrated fine filter area (5 µm) |
| Cooling system | Compact cooler, consisting of a water cooler, with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan |
| MODE selection | Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs |
| RPM adjustment | Stepless adjustment of engine output via RPM at each selected mode |
| Tool Control | 20 pre-adjustable pump flows and pressures for add-on attachments |
| Attachment system | |
| Flow | 315 l/min. / 83 gpm |
| Pressure | 380 bar / 5,511 psi |
| Attachment rotation system | |
| Flow | 30 l/min. / 8 gpm |
| Pressure | 140 bar / 2,031 psi |
| Max. pressure | 180 bar / 2,611 psi |

Swing drive

| | |
|----------------------|---|
| Drive | Liebherr swashplate motor with integrated brake valve |
| Transmission | Liebherr compact planetary reduction gears |
| Swing ring | Liebherr, sealed race ball bearing swing ring, internal teeth |
| Swing speed | 0-7.5 rpm stepless |
| Swing torque | 115.2 kNm / 84,967 lbf ft |
| Holding brake | Wet multi-disc (spring applied, pressure released) |

Cab

| | |
|--|--|
| Cab | Safety cab structure, headlight integrated under the protection, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, cigarette lighter and 12V plug, storage bins, lunchbox, cup holder, polycarbonate windows on right side |
| Operator's seat | Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination, seat heating as standard |
| Arm consoles | Oscillating consoles with seat, tiltable console left |
| Operation and displays | Large high-resolution color display with intuitive operation via touchscreen, video, additional color display for front and side camera, versatile adjusting, control and monitoring facilities, e.g. climate control, implement and attachment parameters, specific demolition display |
| 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 via a menu. Ambient air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures |
| Noise emission ISO 6396 2000/14/EC | 71dB(A) = L _{pA} (inside cab) 105dB(A) = L _{WA} (surround noise) |

Undercarriage

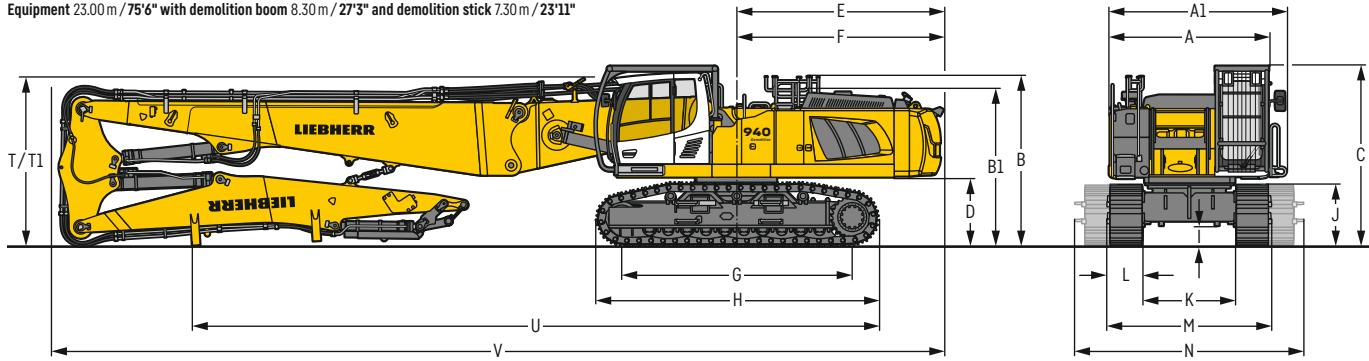
| | |
|---------------------------------|--|
| Versions | Hydraulic variable gauge |
| VH-HD | Mechanical variable gauge |
| LC-V | Standard |
| LC / NLC | Liebherr swashplate motor with integrated brake valve |
| Drive | Liebherr compact planetary reduction gear |
| Transmission | |
| Maximum travel speed | 2.2 km/h / 1.4 mph low range |
| | 3.1 km/h / 1.9 mph high range |
| Drawbar pull on crawler | 400kN / 89,924 lbf (VH-HD) 347kN / 78,009 lbf (LC-V) 296kN / 66,544 lbf (LC / NLC) |
| Track components | D7, D7G, maintenance-free |
| Track rollers / Carrier rollers | 10 / 3 (VH-HD) 10 / 3 (LC-V) 9 / 2 (LC / NLC) |
| Tracks | Sealed and greased |
| Track pads | Triple grouser |
| Holding brake | Wet multi-disc (spring applied, pressure released) |

Equipment

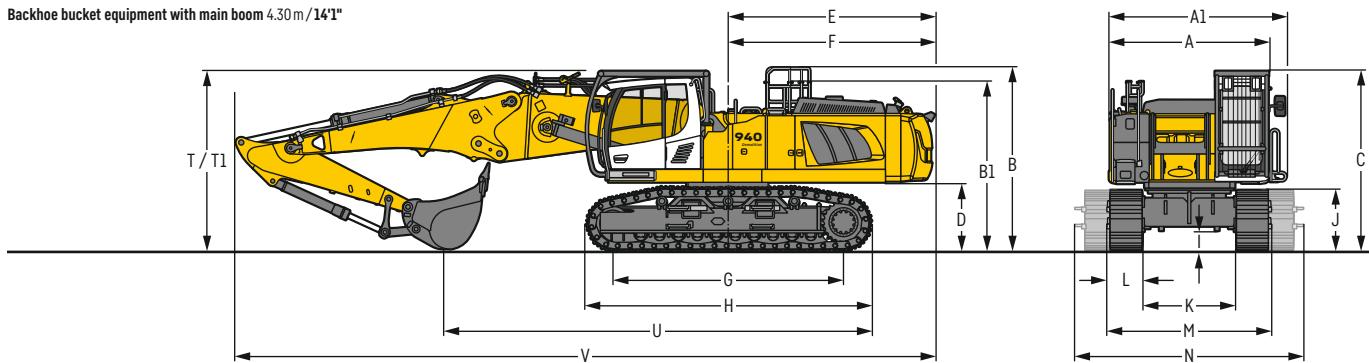
| | |
|-----------------------|--|
| Type | Combination of resistant steel plates and cast steel components |
| Hydraulic cylinders | Liebherr cylinders with seal and guidance systems |
| Bearings | Sealed, low maintenance |
| Lubrication | Automatic central lubrication system (except link and tilt geometry) |
| Hydraulic connections | Pipes and hoses equipped with SAE split-flange connections |
| Buckets | Standard equipped with Liebherr tooth system |

Dimensions

Equipment 23.00 m / 75'6" with demolition boom 8.30 m / 27'3" and demolition stick 7.30 m / 23'11"



Backhoe bucket equipment with main boom 4.30 m / 14'1"



| | VH-HD | mm / ft in | LC-V | mm / ft in | LC | mm / ft in | NLC | mm / ft in |
|----|---|---|------|---|----|---|-----|---|
| A | Uppercarriage width | 2,985 ²⁾ / 9'10" ²⁾ | | 2,985 ²⁾ / 9'10" ²⁾ | | 2,985 ²⁾ / 9'10" ²⁾ | | 2,985 ²⁾ / 9'10" ²⁾ |
| A1 | Uppercarriage width with catwalks | 3,325 / 10'11" | | 3,325 / 10'11" | | 3,325 / 10'11" | | 3,325 / 10'11" |
| B | Uppercarriage height | 3,450 / 11' 4" | | 3,560 / 11' 8" | | 3,405 / 11' 2" | | 3,405 / 11' 2" |
| B1 | Uppercarriage height (handrails folded) | 3,190 / 10' 6" | | 3,300 / 10'10" | | 3,145 / 10' 4" | | 3,145 / 10' 4" |
| C | Cab height | 3,400 / 11' 2" | | 3,510 / 11' 6" | | 3,355 / 11' | | 3,355 / 11' |
| D | Counterweight ground clearance | 1,250 / 4' 1" | | 1,360 / 4' 6" | | 1,205 / 3'11" | | 1,205 / 3'11" |
| E | Rear-end length | 3,945 / 12'11" | | 3,945 / 12'11" | | 3,945 / 12'11" | | 3,945 / 12'11" |
| F | Tail swing radius | 3,945 / 12'11" | | 3,945 / 12'11" | | 3,945 / 12'11" | | 3,945 / 12'11" |
| G | Wheelbase | 4,390 / 14' 5" | | 4,400 / 14' 5" | | 4,108 / 13' 6" | | 4,108 / 13' 6" |
| H | Undercarriage length | 5,370 / 17' 7" | | 5,365 / 17' 7" | | 5,030 / 16' 6" | | 5,030 / 16' 6" |
| I | Undercarriage ground clearance | 440 / 1' 5" | | 760 / 2' 6" | | 535 / 1' 9" | | 535 / 1' 9" |
| J | Track height | 1,140 / 3' 9" | | 1,165 / 3'10" | | 1,070 / 3' 6" | | 1,070 / 3' 6" |
| K | Track gauge | 2,380-3,300 ³⁾ / 7'10"-10'10" ³⁾ | | 2,390-2,890 ³⁾ / 7'10"-9' 6" ³⁾ | | 2,590 / 8' 6" | | 2,390 / 7'10" |
| L | Track pad width | 600 / 24" | | 600 / 24" | | 600 / 24" | | 600 / 24" |
| M | Width over tracks | 2,980-3,930 ³⁾ / 9' 9"-12'11" ³⁾ | | 2,990-3,490 ³⁾ / 9'10"-11' 5" ³⁾ | | 3,190 / 10' 6" | | 2,990 / 9'10" |
| N | Width over steps | 3,090-4,310 ^{1,3)} / 10' 2"-14' 2" ^{1,3)} | | 3,240-3,740 ^{1,3)} / 10' 8"-12' 3" ^{1,3)} | | 3,180 / 10' 5" | | 2,980 / 9' 9" |

¹⁾ width with removable steps

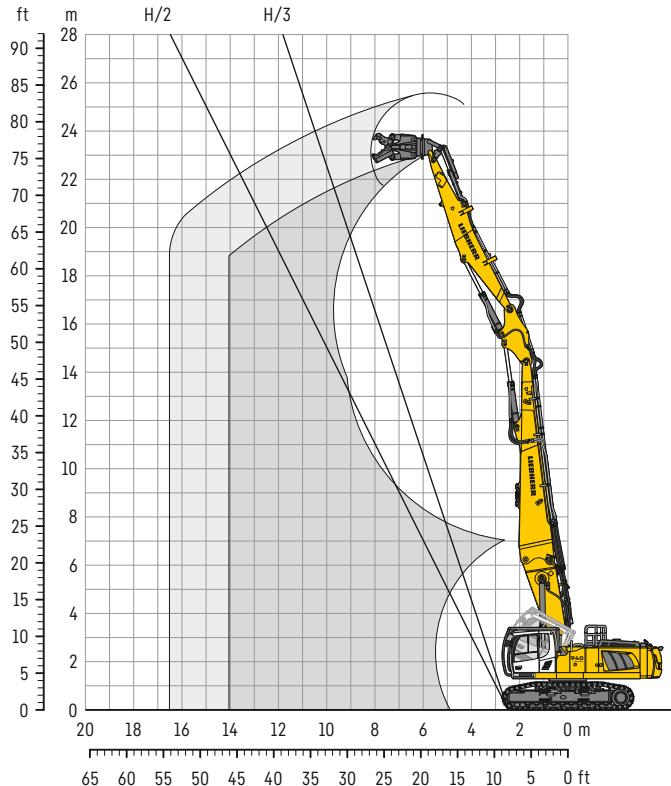
²⁾ without door stop device and spacer

³⁾ work position

| | Demolition equipment 23.00 m / 75'6" | | | |
|----|--|----------------|-----------------|-----------------|
| | VH-HD | LC-V | LC | NLC |
| T | Boom height | 3,200 / 10'6" | 3,300 / 10'10" | 3,150 / 10' 4" |
| T1 | Boom height with automatic hydraulic coupling system | 3,650 / 12' | 3,750 / 12' 4" | 3,600 / 11'10" |
| U | Length on ground | 13,100 / 43' | 13,050 / 42'10" | 12,900 / 42' 4" |
| V | Overall length | 16,950 / 55'7" | 16,950 / 55' 7" | 16,950 / 55' 7" |

| | Stick length m / ft in | Backhoe bucket equipment | | | |
|----|--|--------------------------|----------------|----------------|----------------|
| | VH-HD | LC-V | LC | NLC | |
| T | Boom height | 2.50 / 8'2" | 3,400 / 11' 2" | 3,450 / 11' 4" | 3,400 / 11' 2" |
| T1 | Boom height with automatic hydraulic coupling system | 2.80 / 9'2" | 3,450 / 11' 4" | 3,500 / 11' 6" | 3,450 / 11' 4" |
| U | Length on ground | 2.50 / 8'2" | 3,850 / 12' 8" | 3,900 / 12'10" | 3,850 / 12' 8" |
| V | Overall length | 2.50 / 8'2" | 3,900 / 12'10" | 3,950 / 13' | 3,900 / 12'10" |
| | 2.80 / 9'2" | 7,950 / 26' 1" | 7,800 / 25' 7" | 7,600 / 24'11" | 7,600 / 24'11" |
| | 2.80 / 9'2" | 13,400 / 44' | 13,400 / 44' | 13,400 / 44' | 13,400 / 44' |
| | 2.80 / 9'2" | 13,400 / 44' | 13,400 / 44' | 13,400 / 44' | 13,400 / 44' |

Demolition equipment 23.00 m / 75'6"



Reach limitation

| | 10 m 32'10" | 12 m 39'4" | 14 m 45'11" |
|------------------------------------|----------------------------|---------------|----------------|
| Demolition boom 8.30 m / 27'3" | | | |
| + Intermediate boom | | | |
| + Demolition stick 7.30 m / 23'11" | | | |
| VH-HD undercarriage | lengthwise 3.00 / 6,610 | 3.00 / 6,610 | 3.00 / 6,610 |
| | transverse 3.00 / 6,610 | 2.75 / 6,060 | 2.50 / 5,510 |
| LC-V undercarriage | lengthwise 3.00 / 6,610 | 3.00 / 6,610 | 2.75 / 6,060 |
| | transverse 3.00 / 6,610 | 2.25 / 4,960 | 1.75 / 3,860 |
| LC undercarriage | lengthwise 3.00 / 6,610 | 3.00 / 6,610 | 2.75 / 6,060 |
| | transverse 2.00 / 4,410 | 1.75 / 3,860 | - |
| NLC undercarriage | lengthwise 3.00 / 6,610 | 3.00 / 6,610 | 2.50 / 5,510 |
| | transverse 1.50 / 3,310 | 1.25 / 2,760 | - |

* included quick coupler, adapter plate and attachment

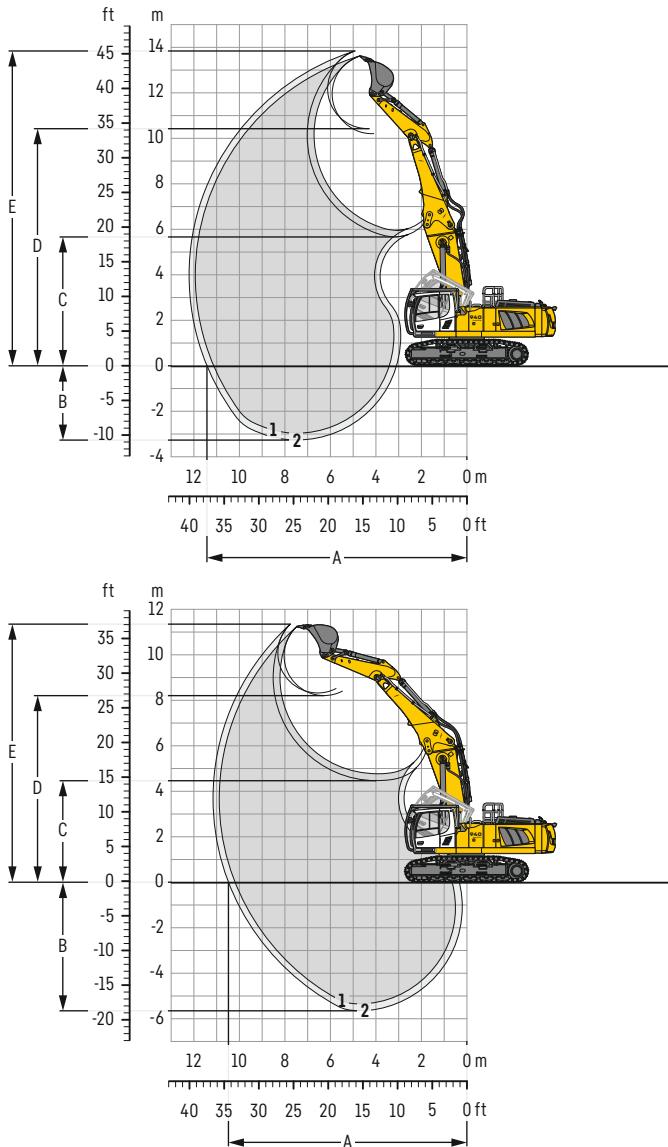
Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 11.0t / 24,250lb, demolition boom 8.30 m / 27'3", intermediate boom 2.25 m / 7'5", demolition stick 7.30 m / 23'11" and attachment 3.0t / 6,610lb.

| Undercarriage | VH-HD | LC-V | LC | NLC |
|---|------------------|------------------|------------------|------------------|
| Pad width mm/in | 600 / 24" | 600 / 24" | 600 / 24" | 600 / 24" |
| Weight kg/lb | 63,900 / 140,880 | 59,800 / 131,840 | 54,700 / 120,590 | 54,600 / 120,370 |
| Ground pressure kg/cm ² /psi | 1.13 / 16.1 | 1.05 / 14.9 | 1.03 / 14.7 | 1.03 / 14.7 |

Backhoe bucket

with main boom 4.30 m / 14'1"



Digging envelope

Main boom pinned in upper (in lower) bearing

| | 1 | 2 |
|------------------------------|---------|---|
| Stick length | m/ft in | 2.50 / 8'2" 2.80 / 9'2" |
| A Max. reach at ground level | m/ft in | 11.13 (10.19) / 36'6" (33' 5") 11.41 (10.48) / 37'5" (34' 5") |
| B Max. digging depth | m/ft in | 2.96 (5.35) / 9'9" (17' 7") 3.26 (5.65) / 10'8" (18' 6") |
| C Min. dumping height | m/ft in | 5.95 (4.77) / 19'6" (15' 8") 5.66 (4.47) / 18'7" (14' 8") |
| D Max. dumping height | m/ft in | 10.20 (8.21) / 33'6" (26'11") 10.42 (8.21) / 34'2" (26'11") |
| E Max. cutting height | m/ft in | 13.61 (11.23) / 44'8" (36'10") 13.84 (11.35) / 45'5" (37' 3") |

Forces

| | 1 | 2 |
|----------------------------------|--------|---------------------------|
| Stick digging force (ISO 6015) | kN/lbf | 168 / 37,770 156 / 35,070 |
| Bucket digging force (ISO 6015) | kN/lbf | 204 / 45,860 204 / 45,860 |
| Stick digging force (SAE J1179) | kN/lbf | 160 / 35,970 149 / 33,500 |
| Bucket digging force (SAE J1179) | kN/lbf | 178 / 40,020 178 / 40,020 |

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 11.0t / 24,250lb, main boom 4.30m / 14'1", stick 2.50m / 8'2" and bucket 2.00m³ / 2.62yd³ (1,210kg / 2,670lb).

| Undercarriage | VH-HD | LC-V | LC | NLC |
|-----------------|-------------------------|------------------|------------------|------------------|
| Pad width | mm/in | 600/24" | 600/24" | 600/24" |
| Weight | kg/lb | 58,000 / 127,870 | 53,900 / 118,830 | 48,800 / 107,590 |
| Ground pressure | kg/cm ² /psi | 1.02 / 14.5 | 0.95 / 13.5 | 0.92 / 13.1 |

Buckets

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

| Cutting width mm ft in | Capacity m ³ yd ³ | Weight kg lb | VH-HD undercarriage (with track pads 600mm / 24") | | LC-V undercarriage (with track pads 600mm / 24") | | LC undercarriage (with track pads 600mm / 24") | | NLC undercarriage (with track pads 600mm / 24") | |
|------------------------------|---|--------------------|--|--------------------------|---|--------------------------|---|--------------------------|--|--------------------------|
| | | | Stick length (m / ft in) | Stick length (m / ft in) | Stick length (m / ft in) | Stick length (m / ft in) | Stick length (m / ft in) | Stick length (m / ft in) | Stick length (m / ft in) | Stick length (m / ft in) |
| 1,550 5'1" | 1.60 2.09 | 1,110 2,450 | 2.50 8'2" | 2.80 9'2" | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| 1,650 5'5" | 1.75 2.29 | 1,160 2,560 | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| 1,550 5'1" | 1.85 2.42 | 1,170 2,580 | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| 1,650 5'5" | 2.00 2.62 | 1,210 2,670 | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| 1,750 5'9" | 2.15 2.81 | 1,260 2,780 | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ■ |

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

Max. material weight ▲ = ≤ 2.0 t/m³ / 3,400 lb/yd³, ■ = ≤ 1.8 t/m³ / 3,000 lb/yd³

Lift capacities

with main boom 4.30 m / 14'1" (pinned in upper bearing), counterweight 11.0 t / 24,250 lb
and track pads 600 mm / 24"

Stick 2.50 m / 8'2"

| Under-carriage | 4.5m 15 ft | 6.0m 20 ft | 7.5m 25 ft | 9.0m 30 ft | 10.5m 35 ft | m ft in |
|----------------|---------------|---------------|---------------|---------------|----------------|------------|
| 12.0m t | | | | | | |
| 40ft lb | | | | | | |
| 10.5m t | 11.2* 11.2* | | | | | |
| 35ft lb | 24.1* 24.1* | | | | | |
| 9.0m t | 11.2* 11.2* | 10.9* 10.9* | | | | |
| 30ft lb | 24.8* 24.8* | 23.3* 23.3* | | | | |
| 7.5m t | 14.5* 14.5* | 13.1* 13.1* | 12.4* 12.4* | 10.0* 10.0* | | |
| 25ft lb | 29.4* 29.4* | 28.1* 28.1* | 26.8* 26.8* | 19.5* 19.5* | | |
| 6.0m t | 17.0* 17.0* | 13.8* 13.8* | 11.3* 11.8* | | | |
| 20ft lb | 36.7* 36.7* | 29.9* 29.9* | 24.4* 25.7* | | | |
| 4.5m t | 17.8* 17.8* | 14.2* 14.5* | 11.0* 12.1* | | | |
| 15ft lb | 39.9* 39.9* | 30.7* 31.3* | 23.9* 26.3* | | | |
| 3.0m t | | | | | | |
| 10ft lb | | | | | | |
| 1.5m t | | | | | | |
| 5ft lb | | | | | | |
| 0m t | | | | | | |
| 0ft lb | | | | | | |
| -1.5m t | | | | | | |
| -5ft lb | | | | | | |
| -3.0m t | | | | | | |
| -10ft lb | | | | | | |
| 12.0m t | | | | | | |
| 40ft lb | | | | | | |
| 10.5m t | 11.3* 11.3* | | | | | |
| 35ft lb | 24.4* 24.4* | | | | | |
| 9.0m t | 11.3* 11.3* | 11.0* 11.0* | | | | |
| 30ft lb | 24.8* 24.8* | 23.6* 23.6* | | | | |
| 7.5m t | 15.5* 15.5* | 13.4* 13.4* | 12.4* 12.5* | 9.3* 10.2* | | |
| 25ft lb | 30.9* 30.9* | 28.6* 28.6* | 26.7* 27.0* | 20.0* 20.2* | | |
| 6.0m t | 16.3* 17.1* | 11.9* 13.8* | 9.1* 11.9* | | | |
| 20ft lb | 35.4* 36.9* | 25.8* 30.0* | 19.7* 25.8* | | | |
| 4.5m t | 15.2* 16.0* | 11.4* 14.5* | 8.9* 12.1* | | | |
| 15ft lb | 32.9* 40.1* | 24.6* 31.4* | 19.2* 26.3* | | | |
| 3.0m t | | | | | | |
| 10ft lb | | | | | | |
| 1.5m t | | | | | | |
| 5ft lb | | | | | | |
| 0m t | | | | | | |
| 0ft lb | | | | | | |
| -1.5m t | | | | | | |
| -5ft lb | | | | | | |
| -3.0m t | | | | | | |
| -10ft lb | | | | | | |

Stick 2.50 m / 8'2"

| Under-carriage | 4.5m 15 ft | 6.0m 20 ft | 7.5m 25 ft | 9.0m 30 ft | 10.5m 35 ft | m ft in |
|----------------|---------------|---------------|---------------|---------------|----------------|------------|
| 12.0m t | | | | | | |
| 40ft lb | | | | | | |
| 10.5m t | 11.2* 11.2* | | | | | |
| 35ft lb | 23.9* 23.9* | | | | | |
| 9.0m t | 11.2* 11.2* | 10.6* 10.9* | | | | |
| 30ft lb | 24.8* 24.8* | 22.7* 23.1* | | | | |
| 7.5m t | 13.9* 13.9* | 13.0* 13.0* | 10.4* 12.3* | 7.7* 9.8* | | |
| 25ft lb | 28.7* 28.7* | 27.8* 27.8* | 22.4* 26.7* | 16.6* 19.0* | | |
| 6.0m t | 13.6* 17.0* | 9.9* 13.8* | 7.6* 11.5* | | | |
| 20ft lb | 29.5* 36.6* | 21.5* 29.8* | 16.4* 24.7* | | | |
| 4.5m t | 12.5* 18.5* | 9.4* 14.5* | 7.3* 11.2* | | | |
| 15ft lb | 27.1* 39.8* | 20.4* 31.3* | 15.8* 24.2* | | | |
| 3.0m t | | | | | | |
| 10ft lb | | | | | | |
| 1.5m t | | | | | | |
| 5ft lb | | | | | | |
| 0m t | | | | | | |
| 0ft lb | | | | | | |
| -1.5m t | | | | | | |
| -5ft lb | | | | | | |
| -3.0m t | | | | | | |
| -10ft lb | | | | | | |
| 12.0m t | | | | | | |
| 40ft lb | | | | | | |
| 10.5m t | 11.2* 11.2* | | | | | |
| 35ft lb | 23.9* 23.9* | | | | | |
| 9.0m t | 11.2* 11.2* | 9.9* 10.9* | | | | |
| 30ft lb | 24.8* 24.8* | 21.1* 23.1* | | | | |
| 7.5m t | 13.9* 13.9* | 13.0* 13.0* | 9.7* 12.3* | 7.2* 9.8* | | |
| 25ft lb | 28.7* 28.7* | 27.8* 27.8* | 20.8* 26.7* | 15.4* 19.0* | | |
| 6.0m t | 12.6* 17.0* | 9.2* 13.8* | 7.0* 11.5* | | | |
| 20ft lb | 27.3* 36.6* | 19.9* 29.8* | 15.2* 24.7* | | | |
| 4.5m t | 11.5* 18.5* | 8.7* 14.5* | 6.8* 11.2* | | | |
| 15ft lb | 25.0* 39.8* | 18.8* 31.3* | 14.7* 24.1* | | | |
| 3.0m t | | | | | | |
| 10ft lb | | | | | | |
| 1.5m t | | | | | | |
| 5ft lb | | | | | | |
| 0m t | | | | | | |
| 0ft lb | | | | | | |
| -1.5m t | | | | | | |
| -5ft lb | | | | | | |
| -3.0m t | | | | | | |
| -10ft lb | | | | | | |



Height



Can be slewed through 360°



In longitudinal position of undercarriage



Max. reach * Limited by hyd. capacity

The load values are quoted in tons (t) / lb x 1,000 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 / 24" 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 410 kg / 900 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Stick 2.80 m / 9'2"

| Under- carriage VHHD | | | | | |  | m ft in |
|----------------------------|----------------|----------------|----------------|----------------|----------------|---|----------------------|
| | 4.5m 15 ft | 6.0m 20 ft | 7.5m 25 ft | 9.0m 30 ft | 10.5m 35 ft | | |
| 12.0m t | | | | | | 10.2° 23.7° | 10.2° 23.7° 4.7 |
| 40ft lb | | | | | | | |
| 10.5m t | 10.1° 22.1° | 10.1° 22.1° | | | | | |
| 35ft lb | | | | | | | |
| 9.0m t | 9.8° 21.7° | 9.8° 21.7° | 9.9° 21.5° | | | 8.3° 16.7° | 8.3° 16.7° 7.1 |
| 30ft lb | | | | | | | |
| 7.5m t | 11.1° 23.3° | 11.1° 23.3° | 10.9° 23.7° | 10.9° 20.0° | | 7.5° 15.9° | 7.5° 15.9° 8.6 |
| 25ft lb | | | | | | | |
| 6.0m t | 16.6° 35.9° | 16.6° 35.9° | 13.5° 29.3° | 13.5° 29.3° | 11.4° 24.5° | 8.8° 15.7° | 8.8° 15.7° 9.6 |
| 20ft lb | | | | | | | |
| 4.5m t | 18.2° 39.2° | 18.2° 39.2° | 14.3° 30.9° | 14.3° 29.9° | 11.1° 26.0° | 7.2° 15.8° | 7.2° 15.8° 10.7 |
| 15ft lb | | | | | | | |
| 3.0m t | | | | | | 8.4° 15.8° | 8.4° 15.8° 10.9 |
| 10ft lb | 13.7° 23.2° | 14.8° 23.2° | 10.8° 29.7° | 12.2° 32.0° | 12.2° 23.3° | 8.7° 26.4° | 10.4° 36.3° 35.8° |
| 1.5m t | | | | | | | |
| 5ft lb | 13.4° 18.8° | 14.8° 18.8° | 10.5° 28.9° | 12.2° 32.1° | 11.0° 22.8° | 8.6° 26.3° | 10.1° 17.3° 35.8° |
| 0m t | | | | | | | |
| 0ft lb | 10.8° 26.2° | 10.8° 26.2° | 13.2° 28.6° | 14.2° 30.8° | 10.4° 22.5° | 9.4° 25.3° | 8.5° 18.8° 10.6 |
| -1.5m t | | | | | | | |
| -5ft lb | 12.9° 32.9° | 12.9° 32.9° | 10.5° 28.0° | 10.6° 28.0° | 10.5° 22.6° | 9.7° 22.9° | 8.5° 18.8° 10.2 |
| -3.0m t | | | | | | | |
| -10ft lb | | | | | | 10.8° 23.3° | 10.8° 23.3° 8.7 |
| | | | | | | | 21.2° 32.1° 8.7 |
| | | | | | | | 21.2° 32.1° 8.7 |
| | | | | | | | 21.2° 32.1° 8.7 |
| | | | | | | | 21.2° 32.1° 8.7 |
| | | | | | | | 21.2° 32.1° 8.7 |
| | | | | | | | 21.2° 32.1° 8.7 |



Height Can be slewed through 360°



In longitudinal position of undercarriage



Max. reach * Limited by hydr. capacity

The load values are quoted in tons (t) / lb x 1,000 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 / 24" 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 410 kg / 900 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Stick 2.80 m / 9'2"

| Under- carriage LC-V | | | | | |  | m ft in |
|----------------------------|----------------|----------------|----------------|----------------|----------------|---|---------------------|
| | 4.5m 15 ft | 6.0m 20 ft | 7.5m 25 ft | 9.0m 30 ft | 10.5m 35 ft | | |
| 12.0m t | | | | | | 10.0° 23.2° | 10.0° 23.2° 4.7 |
| 40ft lb | 23.3° 35.3° | | | | | | |
| 10.5m t | 10.0° 22.1° | 10.0° 22.1° | | | | | |
| 35ft lb | | | | | | | |
| 9.0m t | 9.8° 21.7° | 9.8° 21.7° | 9.9° 21.6° | | | 8.2° 16.6° | 8.2° 16.6° 7.1 |
| 30ft lb | | | | | | | |
| 7.5m t | 11.5° 34.1° | 11.5° 34.1° | 11.3° 24.3° | 11.0° 23.9° | 11.0° 20.3° | 7.5° 15.9° | 7.5° 15.9° 8.6 |
| 25ft lb | | | | | | | |
| 6.0m t | 16.5° 35.7° | 16.7° 36.1° | 12.0° 25.9° | 13.6° 29.4° | 9.2° 19.8° | 7.1° 16.4° | 7.1° 16.4° 10.7 |
| 20ft lb | | | | | | | |
| 4.5m t | 15.3° 33.2° | 18.2° 39.3° | 11.4° 24.7° | 14.3° 31.0° | 8.9° 19.2° | 12.0° 26.0° | 6.9° 15.8° 10.9 |
| 15ft lb | | | | | | | |
| 3.0m t | | | | | | 7.1° 15.3° | 7.1° 15.3° 10.9 |
| 10ft lb | | | | | | | 7.1° 15.3° 10.9 |
| 1.5m t | | | | | | | |
| 5ft lb | 10.9° 19.0° | 19.0° 22.9° | 8.4° 32.0° | 11.6° 18.1° | 12.1° 21.1° | 6.6° 14.6° | 7.9° 17.3° 10.9 |
| 0m t | | | | | | | |
| 0ft lb | 11.1° 26.8° | 11.1° 26.8° | 10.5° 22.6° | 14.1° 30.7° | 8.3° 17.9° | 6.9° 16.4° | 8.6° 16.4° 10.6 |
| -1.5m t | | | | | | | |
| -5ft lb | 14.3° 30.7° | 14.9° 32.6° | 10.5° 22.6 | 12.8° 27.8° | 8.3° 18.0 | 10.5° 22.7° | 8.5° 18.7° 10.2 |
| -3.0m t | | | | | | | |
| -10ft lb | | | | | | | 8.7° 17.2° |
| | | | | | | | 8.7° 17.2° 23.5° |
| | | | | | | | 8.7° 17.2° 23.5° |
| | | | | | | | 8.7° 17.2° 23.5° |
| | | | | | | | 8.7° 17.2° 23.5° |
| | | | | | | | 8.7° 17.2° 23.5° |
| | | | | | | | 8.7° 17.2° 23.5° |



Height Can be slewed through 360°



In longitudinal position of undercarriage



Max. reach * Limited by hydr. capacity

Lift capacities

with main boom 4.30 m / 14'1" (pinned in lower bearing), counterweight 11.0 t / 24,250 lb
and track pads 600 mm / 24"

Stick 2.50 m / 8'2"

| Under-carriage | | 4.5m 15ft | 6.0m 20ft | 7.5m 25ft | 9.0m 30ft | 10.5m 35ft | |
|----------------|---------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|--------------------------------------|
| VH-HD | 9.0m t 30ft lb | | | | | | 8.3* 8.3* 7.3 18.5* 18.5* 23'6" |
| | 7.5m t 25ft lb | 12.9* 12.9* 28.0* 28.0* | 11.5* 11.5* 24.6* 24.6* | | | | 8.1* 8.1* 8.5 17.8* 17.8* 27'7" |
| | 6.0m t 20ft lb | 19.5* 19.5* 41.4* 41.4* | 14.5* 14.5* 31.3* 31.3* | 12.2* 12.2* 26.5* 26.5* | 10.0* 10.0* 19.3* 19.3* | | 8.1* 8.1* 9.2 17.9* 17.9* 30'2" |
| | 4.5m t 15ft lb | | 16.6* 16.6* | 13.2* 13.2* | 11.4 11.4* | | 8.4* 8.4* 9.7 18.5* 18.5* 31'10" |
| | 3.0m t 10ft lb | | 18.4* 18.4* | 14.2* 14.2* | 11.1 11.9* | | 9.0* 9.0* 9.9 19.7* 19.7* 32'7" |
| | 1.5m t 5ft lb | | 16.4* 16.4* | 13.8 14.8* | 10.9 12.3* | | 9.5 9.8* 9.9 21.0 21.6* 32'6" |
| | 0m t 0ft lb | | 18.4 18.9 | 13.6 15.0 | 10.7 12.3* | | 9.8 11.3* 9.7 21.6 24.8* 31'8" |
| | -1.5m t -5ft lb | 12.0* 12.0* 27.9* 27.9* | 18.0* 18.0* | 13.5 14.5* | 10.7 11.7* | | 10.5 11.5* 9.1 23.2 25.4* 29'11" |
| | -3.0m t -10ft lb | | 16.2* 16.2* | 13.2* 13.2* | | | 11.6* 11.6* 8.3 25.5* 25.5* 27'1" |
| | -4.5m t -15ft lb | | 42.2* 42.2* | 35.2* 35.2* | 28.3* 28.3* | | |



Height

Can be slewed through 360°



In longitudinal position of undercarriage



Max. reach

* Limited by hyd. capacity

The load values are quoted in tons (t) / lb x 1,000 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 / 24" 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 410 kg / 900 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Stick 2.50 m / 8'2"

| Under-carriage | | 4.5m 15ft | 6.0m 20ft | 7.5m 25ft | 9.0m 30ft | 10.5m 35ft | |
|----------------|---------------------|----------------------------|----------------------------|--------------------------|------------------------|---------------|------------------------------------|
| LC | 9.0m t 30ft lb | | | | | | 8.3* 8.3* 7.3 18.5* 18.5* 23'6" |
| | 7.5m t 25ft lb | 12.9* 12.9* 28.0* 28.0* | 10.9 11.5* 23.5 24.4* | | | | 8.1* 8.1* 8.5 17.8* 17.8* 27'7" |
| | 6.0m t 20ft lb | 19.3* 19.3* 41.0* 41.0* | 14.5* 14.5* 31.2* 31.2* | 10.5 12.2* 22.7 26.5* | 7.9 9.8* 17.0 19.0* | | 7.6 8.1* 9.2 16.8 17.9* 30'2" |
| | 4.5m t 15ft lb | | 13.4 16.5* | 10.0 13.2* | 7.7 11.4* | | 6.8 8.4* 9.7 15.1 18.5* 31'10" |
| | 3.0m t 10ft lb | | 29.2 35.6* | 21.6 28.6* | 16.6 24.8* | | 6.4 8.9* 9.9 14.2 19.6* 32'7" |
| | 1.5m t 5ft lb | | 12.4 18.3* | 9.4 14.2* | 7.4 11.3 | | 6.3 9.6 9.9 13.9 21.2 32'6" |
| | 0m t 0ft lb | | 27.0 39.5* | 20.4 30.7* | 16.0 24.3 | | 6.4 9.9 9.7 14.1 21.7 31'8" |
| | -1.5m t -5ft lb | 11.7* 11.7* | 11.7 18.0* | 8.7 13.8 | 7.0 10.8 | | 6.9 10.6 9.1 15.1 23.4 29'11" |
| | -3.0m t -10ft lb | 27.2* 27.2* | 25.3 39.1* | 18.9 29.8 | | | 7.8 11.6* 8.3 17.4 25.5* 27'1" |
| | -4.5m t -15ft lb | | 11.9 16.3* | 8.9 13.2* | | | |

| Under-carriage | | 4.5m 15ft | 6.0m 20ft | 7.5m 25ft | 9.0m 30ft | 10.5m 35ft | |
|----------------|---------------------|----------------------------|--------------------------|-------------------------|------------------------|---------------|------------------------------------|
| NLC | 9.0m t 30ft lb | | | | | | 8.3* 8.3* 7.3 18.5* 18.5* 23'6" |
| | 7.5m t 25ft lb | 12.9* 12.9* 28.0* 28.0* | 10.2 11.5* 21.9 24.4* | | | | 8.1* 8.1* 8.5 17.8* 17.8* 27'7" |
| | 6.0m t 20ft lb | 19.3* 19.3* 41.0* 41.0* | 13.5 14.5* 29.3 31.2* | 9.8 12.2* 21.1 26.5* | 7.4 9.8* 15.8 19.0* | | 7.0 8.1* 9.2 15.6 17.9* 30'2" |
| | 4.5m t 15ft lb | | 12.4 16.5* | 9.3 13.2* | 7.1 11.4* | | 6.3 8.4* 9.7 14.0 18.5* 31'10" |
| | 3.0m t 10ft lb | | 26.9 35.6* | 20.0 28.6* | 15.4 24.8* | | 5.9 8.9* 9.9 13.1 19.6* 32'7" |
| | 1.5m t 5ft lb | | 11.4 18.3* | 8.7 14.2* | 6.8 11.2 | | 5.8 9.6 9.9 12.8 21.1 32'6" |
| | 0m t 0ft lb | | 24.8 39.5* | 18.9 30.7* | 14.8 24.3 | | 5.9 9.8 9.7 13.0 21.7 31'8" |
| | -1.5m t -5ft lb | 10.9 16.4* | 8.3 14.1 | 6.6 11.0 | | | 6.3 10.6 9.1 14.0 23.4 29'11" |
| | -3.0m t -10ft lb | 23.6 40.6* | 18.0 30.5 | 14.3 23.7 | | | 7.2 11.6* 8.3 16.0 25.5* 27'1" |
| | -4.5m t -15ft lb | 10.7 18.9* | 8.1 13.9 | 6.5 10.8 | | | |

Stick 2.80 m / 9'2"

| Under-carriage | | | | | | | | | | |
|----------------|---------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------|-------------|--------|------------|--|
| | 4.5m 15 ft | 6.0m 20 ft | 7.5m 25 ft | 9.0m 30 ft | 10.5m 35 ft | | | | m ft in | |
| VH-HD | 9.0m t 30ft lb | | | 8.2* 8.2* | | | 7.3* 7.3* | 7.7 | | |
| | 7.5m t 25ft lb | | | 10.5* 10.5* | | | 16.2* 16.2* | 24'8" | | |
| | 6.0m t 20ft lb | 18.4* 18.4* 39.2* 39.2* | 14.0* 14.0* 30.3* 30.3* | 11.9* 11.9* 25.8* 25.8* | 9.8* 9.8* 20.0* 20.0* | | 7.1* 7.1* | 8.8 | | |
| | 4.5m t 15ft lb | 16.1* 16.1* | 12.9* 12.9* | 11.2* 11.2* | | | 15.7* 15.7* | 28'7" | | |
| | 3.0m t 10ft lb | 18.0* 18.0* 38.7* 38.7* | 13.9* 13.9* 30.2* 30.2* | 11.1 11.7* | 28.0* 28.0* 24.3* 24.3* | | 7.4* 7.4* | 10.0 | | |
| | 1.5m t 5ft lb | 18.5* 18.5* 40.3 40.9* | 13.8 14.7* | 10.8 12.1* | 24.3* 24.3* | | 16.2* 16.2* | 32'8" | | |
| | 0m t 0ft lb | 18.4 18.9 | 13.6 14.9 | 10.7 12.3* | 29.9 31.8* | | 7.9 9.7* | 9.9 | | |
| | -1.5m t -5ft lb | 12.0* 12.0* 27.8* 27.8* | 18.2* 18.2* | 13.5 14.6* | 10.6 11.9* | | 20.7 21.4* | 32'7" | | |
| | -3.0m t -10ft lb | 19.9* 19.9* 44.2* 44.2* | 16.7* 16.7* | 13.5* 13.5* | 22.9 25.6* | | 22.2 24.7* | 30'11" | | |
| | -4.5m t -15ft lb | | | | | | 24.9* 24.9* | 28'2" | | |
| LC-V | 9.0m t 30ft lb | | | 8.4* 8.4* | | | 7.3* 7.3* | 7.7 | | |
| | 7.5m t 25ft lb | | | 16.6* 16.6* | | | 16.2* 16.2* | 24'8" | | |
| | 6.0m t 20ft lb | 18.7* 18.7* 39.8* 39.8* | 14.1* 14.1* | 11.9* 11.9* | 9.5 9.9* | | 7.1* 7.1* | 8.8 | | |
| | 4.5m t 15ft lb | 16.2* 16.2* | 12.0 13.0* | 9.3 11.2* | | | 15.7* 15.7* | 28'7" | | |
| | 3.0m t 10ft lb | 15.3 18.0* | 11.4 14.0* | 8.9 11.8* | 26.0 28.1* | 20.0 24.4* | 7.2* 7.2* | 9.5 | | |
| | 1.5m t 5ft lb | 33.1 38.9* 31.7 40.9* | 24.7 30.3* | 19.3 25.5* | | | 16.5* 17.3* | 33'6" | | |
| | 0m t 0ft lb | 14.4 18.9* | 10.7 14.9* | 8.5 12.3* | | | 16.5 21.6* | 32'7" | | |
| | -1.5m t -5ft lb | 12.4* 12.4* 28.6* 28.6* | 14.4 18.1* | 10.7 14.5* | 8.5 11.8* | | 8.1 11.2* | 9.4 | | |
| | -3.0m t -10ft lb | 20.1* 20.1* 43.8* 43.8* | 14.5 16.5* | 10.8 13.4* | 18.3 25.5* | | 17.8 24.7* | 30'11" | | |
| | -4.5m t -15ft lb | | | | | | 20.3 24.9* | 28'2" | | |
| | | | | | | | | 7.1 | | |



Height Can be slewed through 360°



In longitudinal position of undercarriage



Max. reach * Limited by hydr. capacity

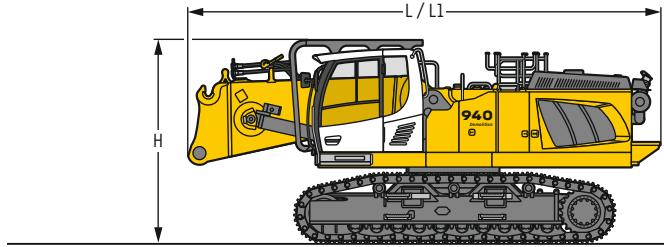
The load values are quoted in tons (t) / lb x 1,000 at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm / 24" wide track pads. Indicated loads are based on ISO 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 410 kg / 900 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Stick 2.80 m / 9'2"

| Under-carriage | | | | | | | | | | |
|----------------|---------------------|----------------------------|----------------------------|---------------|----------------|-------------|-------------|-------|-------------|--------|
| | 4.5m 15 ft | 6.0m 20 ft | 7.5m 25 ft | 9.0m 30 ft | 10.5m 35 ft | | | | m ft in | |
| LC | 9.0m t 30ft lb | | | 8.0* 8.0* | | | | | 7.3* 7.3* | 7.7 |
| | 7.5m t 25ft lb | | | | | 10.5* 10.5* | | | 16.3* 16.3* | 24'8" |
| | 6.0m t 20ft lb | 18.2* 18.2* 38.9* 38.9* | 14.0* 14.0* 30.1* 30.1* | 10.6 11.9* | 22.4* 22.4* | 8.0 9.7* | | | 7.1* 7.1* | 9.5 |
| | 4.5m t 15ft lb | 13.6 16.0* | 10.0 12.9* | 7.7 11.2* | | | 15.7* 15.7* | 31'1" | 6.6 7.4* | 10.0 |
| | 3.0m t 10ft lb | 12.6 17.9* | 9.5 13.9* | 7.4 11.3 | | | | | 14.5 16.2* | 32'8" |
| | 1.5m t 5ft lb | 11.9 18.5* | 9.0 14.2 | 7.1 11.0 | | | | | 13.5 18.8* | 33'5" |
| | 0m t 0ft lb | 11.7 18.9* | 8.8 13.9 | 7.0 10.8 | | | | | 6.1 9.5 | 9.9 |
| | -1.5m t -5ft lb | 11.8* 11.8* | 11.6 18.2* | 8.7 13.8 | 6.9 10.7 | | | | 13.5 20.8 | 32'7" |
| | -3.0m t -10ft lb | 18.0 19.5* | 11.8 16.7* | 8.7 13.5* | | | | | 14.4 22.3 | 30'11" |
| | -4.5m t -15ft lb | 18.7 44.4* | 25.4 36.2* | 18.9 29.2* | | | | | 16.4 24.9* | 28'2" |
| | | | | | | | | | 9.6 11.7* | 7.1 |
| NLC | 9.0m t 30ft lb | | | 8.0* 8.0* | | | | | 7.3* 7.3* | 7.7 |
| | 7.5m t 25ft lb | | | | 10.3 10.5* | | | | 16.3* 16.3* | 24'8" |
| | 6.0m t 20ft lb | 18.2* 18.2* 38.9* 38.9* | 13.7 14.0* | 9.9 11.9* | 7.4 9.7* | | | | 7.1* 7.1* | 8.8 |
| | 4.5m t 15ft lb | 12.6 16.0* | 9.3 12.9* | 7.2 11.2* | | | | | 15.7 15.7* | 28'7" |
| | 3.0m t 10ft lb | 11.6 17.9* | 8.8 13.9* | 6.9 11.3 | | | | | 13.4 16.2* | 32'8" |
| | 1.5m t 5ft lb | 10.9 18.5* | 8.3 14.1 | 6.6 11.0 | | | | | 5.7 7.8* | 10.2 |
| | 0m t 0ft lb | 10.7 18.9* | 8.1 13.8 | 6.4 10.8 | | | | | 12.6 17.2* | 33'6" |
| | -1.5m t -5ft lb | 11.8* 11.8* | 10.6 18.2* | 8.0 13.7 | 6.4 10.7 | | | | 12.3 18.8* | 33'5" |
| | -3.0m t -10ft lb | 27.2* 27.2* | 23.0 39.5* | 17.2 29.6 | 13.8 23.1 | | | | 13.3 22.3 | 30'11" |
| | -4.5m t -15ft lb | | | | | | | | 6.8 11.3* | 8.6 |
| | | | | | | | | | 15.1 24.9* | 28'2" |

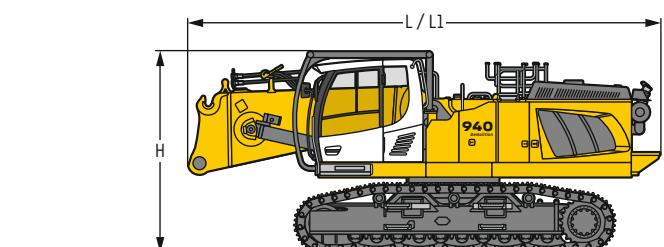
Dimensions and weights



Basic machine

without counterweight with cab tiltable 30° and integral protection grid

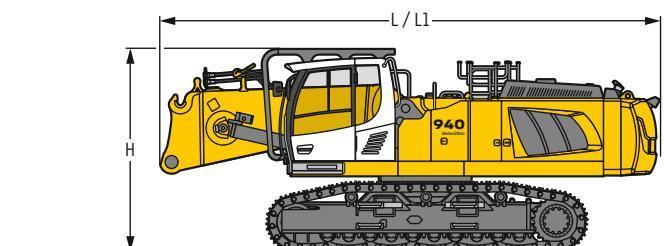
| | | VH-HD | LC-V |
|---|----------|---------------|---------------|
| L | mm/ft in | 8,000/26'3" | 8,000/26'3" |
| L1 with automatic hydraulic coupling system | mm/ft in | 8,250/27'1" | 8,250/27'1" |
| H | mm/ft in | 3,400/11'2" | 3,510/11'6" |
| Weight | kg/lb | 40,900/90,170 | 36,800/81,130 |
| Weight with automatic hydraulic coupling system | kg/lb | 41,800/92,150 | 37,700/83,110 |



Basic machine

without counterweight with cab tiltable 30° and integral protection grid on tilting device

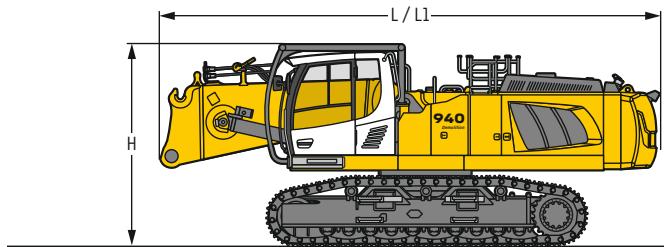
| | | VH-HD | LC-V |
|---|----------|---------------|---------------|
| L | mm/ft in | 8,000/26'3" | 8,000/26'3" |
| L1 with automatic hydraulic coupling system | mm/ft in | 8,250/27'1" | 8,250/27'1" |
| H | mm/ft in | 3,400/11'2" | 3,510/11'6" |
| Weight | kg/lb | 41,300/91,050 | 37,200/82,010 |
| Weight with automatic hydraulic coupling system | kg/lb | 42,200/93,040 | 38,100/84,000 |



Basic machine

with counterweight 11.0 t/24,250 lb, cab tiltable 30° and integral protection grid

| | | VH-HD | LC-V |
|---|----------|----------------|----------------|
| L | mm/ft in | 8,450/27'9" | 8,450/27'9" |
| L1 with automatic hydraulic coupling system | mm/ft in | 8,700/28'7" | 8,700/28'7" |
| H | mm/ft in | 3,400/11'2" | 3,510/11'6" |
| Weight | kg/lb | 51,900/114,420 | 47,800/105,380 |
| Weight with automatic hydraulic coupling system | kg/lb | 52,800/116,400 | 48,700/107,370 |

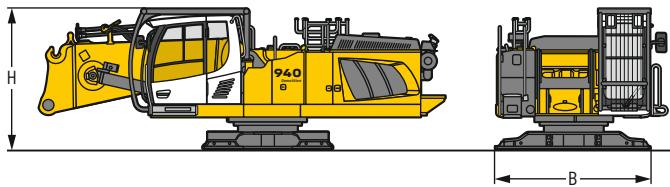


Basic machine

with counterweight 11.0 t/24,250 lb, cab tiltable 30° and integral protection grid on tilting device

| | | VH-HD | LC-V |
|---|----------|----------------|----------------|
| L | mm/ft in | 8,450/27'9" | 8,450/27'9" |
| L1 with automatic hydraulic coupling system | mm/ft in | 8,700/28'7" | 8,700/28'7" |
| H | mm/ft in | 3,400/11'2" | 3,510/11'6" |
| Weight | kg/lb | 52,300/115,300 | 48,200/106,260 |
| Weight with automatic hydraulic coupling system | kg/lb | 53,200/117,290 | 49,100/108,250 |

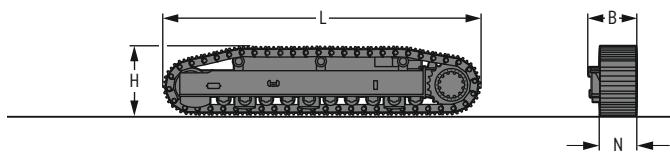
| | | LC | NLC |
|---|----------|---------------|---------------|
| L | mm/ft in | 8,450/27'9" | 8,450/27'9" |
| L1 with automatic hydraulic coupling system | mm/ft in | 8,700/28'7" | 8,700/28'7" |
| H | mm/ft in | 3,355/11' | 3,355/11' |
| Weight | kg/lb | 43,100/95,020 | 43,000/94,800 |
| Weight with automatic hydraulic coupling system | kg/lb | 44,000/97,000 | 43,900/96,780 |



Basic machine

without side frames

| | | |
|---|----------|-----------------|
| B | mm/ft in | 2,995 / 9'10" |
| H | mm/ft in | 2,750 / 9' |
| Weight | kg/lb | 24,700 / 54,450 |
| Weight with automatic hydraulic coupling system | kg/lb | 25,600 / 56,440 |



Side frame

for LC-V undercarriage

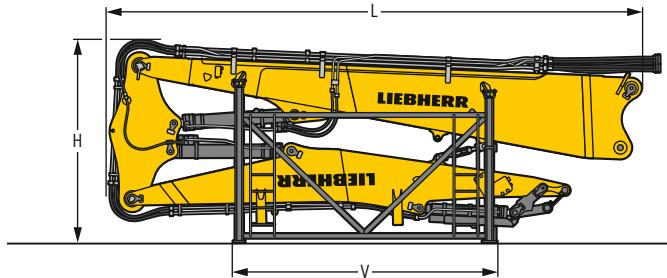
| | | | |
|--------|--------|----------|----------------|
| L | Length | mm/ft in | 5,555 / 18' 3" |
| H | Height | mm/ft in | 1,175 / 3'10" |
| N | Width | mm/ft in | 600 / 24" |
| B | Width | mm/ft in | 795 / 2' 7" |
| Weight | kg/lb | kg/lb | 6,250 / 13,780 |



Counterweight

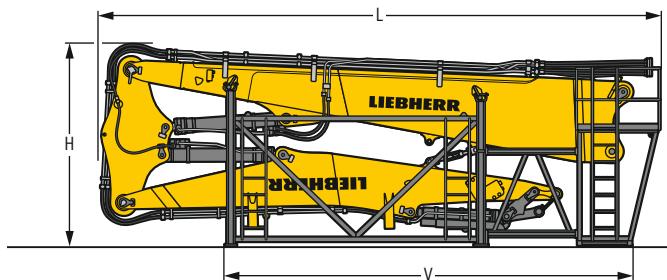
| | | | |
|--------|--------|----------|-----------------|
| L | Length | mm/ft in | 940 / 3'1" |
| H | Height | mm/ft in | 1,420 / 4'8" |
| Width | Width | mm/ft in | 2,970 / 9'9" |
| Weight | Weight | kg/lb | 11,000 / 24,250 |

Dimensions and weights



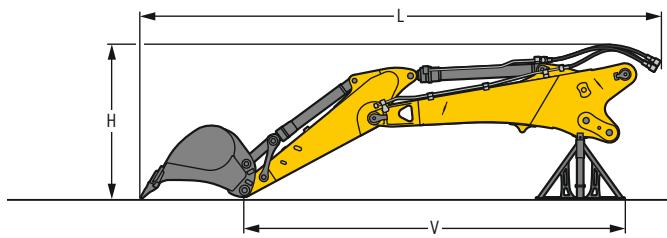
Demolition equipment
with storage rack

| | | | |
|---|---|------------|------------------|
| L | Length | mm / ft in | 23,00 m / 75' 6" |
| H | Height | mm / ft in | 9,050 / 29' 8" |
| V | Width | mm / ft in | 3,400 / 11' 2" |
| | Weight without attachment | mm / ft in | 4,450 / 14' 7" |
| | Weight with automatic hydraulic coupling system | kg / lb | 2,500 / 8' 2" |
| | | kg / lb | 10,100 / 22,270 |
| | | kg / lb | 10,500 / 23,150 |



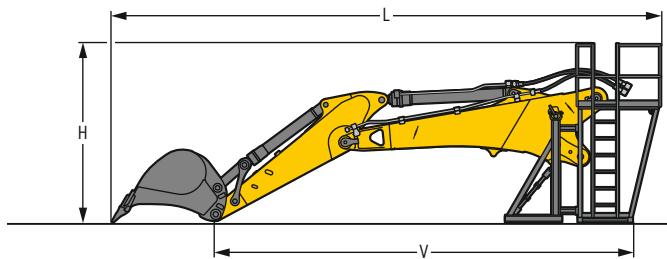
Demolition equipment
with storage rack with catwalks

| | | | |
|---|---|------------|------------------|
| L | Length | mm / ft in | 23,00 m / 75' 6" |
| H | Height | mm / ft in | 9,500 / 31' 2" |
| V | Width | mm / ft in | 3,400 / 11' 2" |
| | Weight without attachment | mm / ft in | 6,900 / 22' 8" |
| | Weight with automatic hydraulic coupling system | kg / lb | 2,500 / 8' 2" |
| | | kg / lb | 10,900 / 24,030 |
| | | kg / lb | 11,300 / 24,910 |



Backhoe equipment
with storage rack

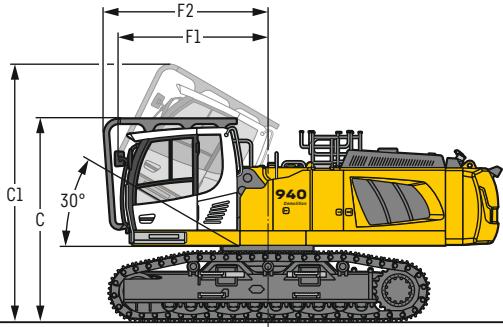
| | | | |
|------------------|---|---------------------------|---------------------------------|
| Main boom length | m / ft in | 4,30 / 14' 1" | |
| Stick length | m / ft in | 2,50 / 8' 2" 2,80 / 9' 2" | |
| L | Length | mm / ft in | 8,800 / 28' 10" 9,100 / 29' 10" |
| H | Height | mm / ft in | 2,600 / 8' 6" 2,600 / 8' 6" |
| V | Width | mm / ft in | 6,450 / 21' 2" 6,750 / 22' 2" |
| | Weight without bucket | mm / ft in | 2,500 / 8' 2" 2,500 / 8' 2" |
| | Weight with automatic hydraulic coupling system | kg / lb | 5,100 / 11,240 5,200 / 11,460 |
| | | kg / lb | 5,500 / 12,130 5,600 / 12,350 |



Backhoe equipment
with storage rack with catwalks

| | | | |
|------------------|---|---------------------------|-------------------------------|
| Main boom length | m / ft in | 4,30 / 14' 1" | |
| Stick length | m / ft in | 2,50 / 8' 2" 2,80 / 9' 2" | |
| L | Length | mm / ft in | 9,300 / 30' 6" 9,600 / 31' 6" |
| H | Height | mm / ft in | 3,020 / 9' 11" 3,020 / 9' 11" |
| V | Width | mm / ft in | 7,050 / 23' 2" 7,350 / 24' 1" |
| | Weight without bucket | mm / ft in | 2,500 / 8' 2" 2,500 / 8' 2" |
| | Weight with automatic hydraulic coupling system | kg / lb | 5,700 / 12,570 5,800 / 12,790 |
| | | kg / lb | 6,100 / 13,450 6,200 / 13,670 |

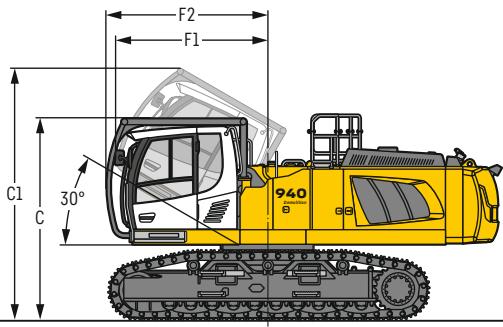
Choice of cab elevations



Version

with cab tiltable 30° and integral protection grid

| | | VH-HD | LC-V | LC | NLC |
|----|------------|----------------|----------------|----------------|----------------|
| C | mm / ft in | 3,400 / 11' 2" | 3,510 / 11' 6" | 3,365 / 11' | 3,365 / 11' |
| C1 | mm / ft in | 4,325 / 14' 2" | 4,435 / 14' 7" | 4,290 / 14' 1" | 4,290 / 14' 1" |
| F1 | mm / ft in | 2,530 / 8' 4" | 2,530 / 8' 4" | 2,530 / 8' 4" | 2,530 / 8' 4" |
| F2 | mm / ft in | 2,770 / 9' 1" | 2,770 / 9' 1" | 2,770 / 9' 1" | 2,770 / 9' 1" |



Version

with cab tiltable 30° and integral protection grid on tilting device

| | | VH-HD | LC-V | LC | NLC |
|----|------------|-----------------|----------------|-----------------|-----------------|
| C | mm / ft in | 3,400 / 11' 2" | 3,510 / 11' 6" | 3,365 / 11' | 3,365 / 11' |
| C1 | mm / ft in | 4,245 / 13' 11" | 4,355 / 14' 3" | 4,210 / 13' 10" | 4,210 / 13' 10" |
| F1 | mm / ft in | 2,570 / 8' 5" | 2,570 / 8' 5" | 2,570 / 8' 5" | 2,570 / 8' 5" |
| F2 | mm / ft in | 2,730 / 8' 11" | 2,730 / 8' 11" | 2,730 / 8' 11" | 2,730 / 8' 11" |

Serial equipment

Undercarriage

Lashing eyes
Sprocket with dirt ejector
Track rollers, lifetime-lubricated
Tracks, sealed and greased

Uppercarriage

Anti-skid surfaces
Automatic swing brake lock
Centralized lubrication system (automatic)
Engine hood with gas spring opening
Handrails
Lockable fuel tank cap
Lockable tool box
Sound insulation

Hydraulic system

Filter with integrated fine filters
High pressure circuit with Tool Control and LDC
Hydraulic pressure measuring ports
Medium pressure circuit
Pressure accumulator for controlled lowering of equipment with engine turned off
Shut-off valve between hydraulic tank and pumps

Engine

Air filter with automatic dust ejector
Automatic engine idling / speed increase, controlled via joystick sensors
Common-Rail injection system
Exhaust gas after-treatment system - DOC + SCR
Fixed geometry turbocharger
Fuel pre-filter and water separator
Intercooler
Power Pack US EPA Tier 4 Final

Cab

9" multifunction color touchscreen + demolition display for LDC
Air conditioning, automatic, tri-zone, controlled via display
Bottle holder
Cab door sliding windows
Cigarette lighter
Coat hook
DEF level on touchscreen
Emergency stop in cab
Engine oil level on touchscreen
Fuel level on touchscreen
Hydraulic oil level on touchscreen
Impact resistant one-piece windscreen
Impact resistant roof window
Integral front wiper and washer
Integral protection guard
Interior lighting
Left hand side view monitoring camera
LiDAT Plus (Liebherr data transfer system)*
Mechanical hour meter, visible from ground level
Rear view monitoring camera
Rear window emergency exit
Right hand side view monitoring camera
Roll-down sun blinds for windscreen and roof window
Roof wiper and washer
Rubber floor mat, fixed on floor and removable
Storage spaces
Visco-elastic damping
Work mode selector

Equipment

Pipe fracture safety valves for boom cylinders
Standard boom with quick change coupling

* optionally extendable after one year

Equipment standard / option

Undercarriage

| | |
|----------------------------|---|
| Chain guide 1 piece | ● |
| Chain guide 4 pieces | + |
| Chain guide full length | + |
| Chain scrapers | + |
| Special painting | + |
| Tracks, sealed and greased | ● |
| Undercarriage LC | + |
| Undercarriage LC-V | + |
| Undercarriage NLC | + |
| Undercarriage VH-HD | + |

Cab

| | |
|--|-----------------|
| 2" seat belt with retractor | ● |
| 3" seat belt with retractor, orange color | + |
| 4-points seat belt | + |
| Acoustic travel alarm deactivatable | + |
| Additional air filtration | + |
| Air system for roof window cleaning | + |
| Auxiliary heater programmable | + |
| Coming/Leaving Home with lighting for cabin access | + |
| Cool box (12V) | + |
| Dark tinted windows | + |
| Electrically adjustable and heated outside rear-view mirrors | + |
| Electronic immobilizer | + |
| Fire extinguisher | + |
| Footrest | + |
| Headlights on cab, front, LED, 2 pieces | ● ¹⁾ |
| Headlights on cab, front, LED+, 2 pieces | + ¹⁾ |
| Luminosity control (LED+ headlights) | + ¹⁾ |
| Operator seat Comfort | ● |
| Operator seat Premium | + |
| Radio Comfort | + |
| Radio pre-installation | ● |
| Rotating beacon on cabin, LED, 1 piece | + |
| Sun visor | + |

Uppercarriage

| | |
|---|-----------------|
| Air compressor | + |
| Boxing ring | + |
| Catwalks tiltable left and right | + |
| Electric socket on uppercarriage (24V) | + |
| Fogging system | + |
| Headlight on uppercarriage, front right, LED, 1 piece, protection included | ● ¹⁾ |
| Headlight on uppercarriage, front right, LED+, 1 piece, protection included | + ¹⁾ |
| Headlight on uppercarriage, lateral left, LED+, 1 piece | + ¹⁾ |
| Headlights on uppercarriage, rear, LED+, 2 pieces | + ¹⁾ |
| Lighting for tank area | + ¹⁾ |
| Lighting for uppercarriage access | + ¹⁾ |
| Radiator fine mesh protection grid | + |
| Reversible fan drive | + |
| Rock protection (swing gear and lubrication pipes) | + |
| Special painting | + |
| Tank refilling pump fuel | + |
| Tool set including storage case | ● |
| Transport device for the counterweight | + |
| Uppercarriage bottom and side protection | + |

Equipment

| | |
|--|-----------------|
| Automatic hydraulic coupling system | + |
| Boom cylinders rod protection | + |
| Bucket cylinder rod protection for backhoe equipment | + |
| Camera for equipment | + |
| Centralized lubrication extended for connecting link for backhoe equipment | + |
| Fogging system for backhoe equipment | + |
| Fogging system for demolition equipment | + |
| Headlight on boom, on each side, LED, 1 piece, protection included | ● ¹⁾ |
| Headlight on boom, on each side, LED+, 1 piece, protection included | + ¹⁾ |
| Headlights on equipment, LED, 4 pieces, protections included | ● |
| Headlights on equipment, LED+, 4 pieces, protections included | + |
| High pressure circuit for backhoe equipment | + |
| Medium pressure circuit for backhoe equipment | + |
| Overload warning system | + |
| Pipe fracture safety valve for stick cylinder for backhoe equipment | + |
| Quick coupler for standard boom | + |
| Quick coupler SWA 66 hydraulic | + |
| Quick coupler SWA 66 mechanical | + |
| Solidlink for quick coupler SWA 66 hydraulic | + |
| Standard boom with multicouplers for demolition boom and backhoe equipment | + |
| Stick bottom protection | + |
| Storage rack with catwalks | + |
| Tool Management | + |

Hydraulic system

| | |
|--|---|
| Bypass filter for hydraulic oil | + |
| Filter for hydraulic hammer return flow | + |
| High flow | + |
| Liebherr hydraulic oil | ● |
| Liebherr hydraulic oil, adapted for extreme climate conditions | + |
| Liebherr hydraulic oil, biodegradable | + |
| Pre-heating system for hydraulic oil (240V) | + |

Engine

| | |
|--|---|
| Automatic engine shutdown after idling | + |
| Pre-heating system for fuel, coolant and engine oil (240V) | + |

● = Standard, + = Option

¹⁾ Equipment not individually available, but only as predefined packages

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

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

Notes

The Liebherr Group



Global and independent: more than 70 years of success

Liebherr was founded in 1949. With the development of the world's first mobile tower crane, Hans Liebherr laid the foundations of a successful family-run company which today comprises more than 150 companies on all continents with over 50,000 employees. The holding company of the Group is Liebherr-International AG in Bulle (Switzerland), whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit

Liebherr regards itself as a pioneer. This spirit has enabled the company to make a decisive contribution to the technological history of many industries. Today, employees around the world still share the courage of the company founder to take new paths. They are all united by a passion for technology and fascinating products and the determination to perform outstanding work for their customers.

Widely diversified product program

Not only is Liebherr one of the biggest construction machine manufacturers in the world, it also provides high-quality, user-oriented products and services in a wide range of other areas. The product program includes the segments earthmoving machinery, material handling technology, deep foundation machines, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

Customized solutions and maximum customer value

Liebherr solutions are characterized by maximum precision, outstanding implementation and exceptional longevity. Its mastery of key technologies enables the company to offer its customers customized solutions. For Liebherr, customer focus does not end with the product; it also encompasses a wide range of services that make a real difference.

www.liebherr.us

⚠ WARNING

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.

⚠ WARNING

This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65warnings.ca.gov.

Liebherr USA, Co.

Construction Equipment Division • 4800 Chestnut Avenue • Newport News, VA 23607, USA • Phone +1 (757) 240 4250
construction.usa@liebherr.com • www.liebherr.us • www.facebook.com/LiebherrConstruction