

# Technical data



## Engine

|                              |                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rating</b>                |                                                                                                                                      |
| per SAE J1349                | 563 HP (420 kW) at 1,800 rpm                                                                                                         |
| per ISO 9249                 | 571 HP (420 kW) at 1,800 rpm                                                                                                         |
| <b>Torque</b>                | 2,989 Nm at 1,300 rpm / <b>2,210 lbf ft at 1,300 rpm</b>                                                                             |
| <b>Model</b>                 | Liebherr D9508 A7 SCR                                                                                                                |
| <b>Type</b>                  | 8 cylinder V engine                                                                                                                  |
| Bore                         | 128 mm / <b>5.0 in</b>                                                                                                               |
| Stroke                       | 157 mm / <b>6.2 in</b>                                                                                                               |
| Displacement                 | 16.16 l / <b>986 in³</b>                                                                                                             |
| <b>Engine operation</b>      | 4-stroke diesel<br>Common-Rail                                                                                                       |
| <b>Exhaust gas treatment</b> | Tier 4 Final<br>SCR Filter<br>Passive regeneration by thermo management                                                              |
| <b>Cooling system</b>        | Water-cooled and integrated motor oil cooler, after-cooled and fuel cooled                                                           |
| <b>Air cleaner</b>           | Dry-type air cleaner with pre-cleaner, primary and safety elements                                                                   |
| <b>Fuel tank</b>             | 1,498 l / <b>396 gal</b>                                                                                                             |
| <b>Urea tank</b>             | 180 l / <b>48 gal</b>                                                                                                                |
| <b>Electrical system</b>     |                                                                                                                                      |
| Voltage                      | 24 V                                                                                                                                 |
| Batteries                    | 2 x 180 Ah / 12 V                                                                                                                    |
| Starter                      | 24 V / 7.8 kW                                                                                                                        |
| Alternator                   | Three-phase current 28 V / 140 A                                                                                                     |
| Engine idling                | Sensor controlled                                                                                                                    |
| <b>Motor management</b>      | Connection to the integrated excavator system controlling via CAN-BUS to the economical utilisation of the service that is available |



## Hydraulic controls

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



## Hydraulic system

|                                |                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hydraulic pumps</b>         |                                                                                                                                                                                                                           |
| For equipment and travel drive | Two Liebherr variable displacement, swashplate pumps                                                                                                                                                                      |
| Max. flow                      | 2 x 498 l/min. / <b>2 x 131 gpm</b>                                                                                                                                                                                       |
| Max. pressure                  | 350 bar / <b>5,076 psi</b>                                                                                                                                                                                                |
| For swing drive                | Reversible, variable displacement, swashplate pump, closed-loop circuit                                                                                                                                                   |
| Max. flow                      | 315 l/min. / <b>83 gpm</b>                                                                                                                                                                                                |
| Max. pressure                  | 350 bar / <b>5,076 psi</b>                                                                                                                                                                                                |
| <b>Pump regulation</b>         | Electro-hydraulic with electronic engine speed sensing regulation, pressure compensation, flow compensation, high flow                                                                                                    |
| <b>Hydraulic tank</b>          | 536 l / <b>142 gal</b>                                                                                                                                                                                                    |
| <b>Hydraulic system</b>        | 1,134 l / <b>300 gal</b>                                                                                                                                                                                                  |
| <b>Filtration</b>              | 2 full flow filters in return line with integrated fine filter area (5 µm / <b>2,500 mesh</b> )                                                                                                                           |
| <b>Cooling system</b>          | Cooler for transmission pump oil and cooler for oil and condenser of air-conditioning with hydrostatically controlled fan drives                                                                                          |
| <b>MODE selection</b>          | 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 |
| <b>RPM adjustment</b>          | Stepless adjustment of engine output via RPM at each selected mode                                                                                                                                                        |
| <b>Tool Control</b>            | 20 pre-adjustable pump flows and pressures for add-on attachments                                                                                                                                                         |



## Swing drive

|                      |                                                               |
|----------------------|---------------------------------------------------------------|
| <b>Drive</b>         | Liebherr swashplate motor with integrated brake valve         |
| <b>Transmission</b>  | Liebherr compact planetary reduction gears                    |
| <b>Swing ring</b>    | Liebherr, sealed race ball bearing swing ring, internal teeth |
| <b>Swing speed</b>   | 0–5.9 rpm stepless                                            |
| <b>Swing torque</b>  | 295 kNm / <b>217,581 lbf ft</b>                               |
| <b>Holding brake</b> | Wet multi-disc (spring applied, pressure released)            |



## Cab

|                               |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cab</b>                    | LED work headlights integrated in the ceiling, 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 |
| <b>Operator's seat</b>        | 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 (adjustable in length, height and inclination), seat heating as standard                                                                                                       |
| <b>Arm consoles</b>           | Oscillating consoles with seat, tiltable console left                                                                                                                                                                                                                                                                                                                                 |
| <b>Operation and displays</b> | Large high-resolution operating unit, intuitive, color display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters                                                                                                                                               |
| <b>Air-conditioning</b>       | Automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Recirculated 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   |



## Undercarriage

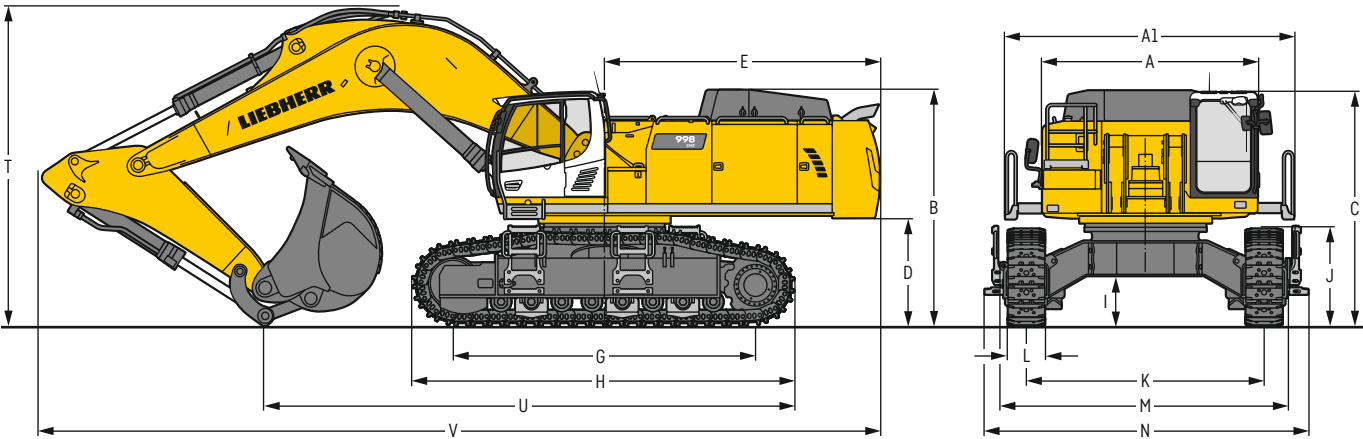
|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| <b>S-HD</b>                            | Gauge 3,900mm / <b>12'10"</b>                             |
| <b>Drive</b>                           | Liebherr swashplate motor with brake valves on both sides |
| <b>Transmission</b>                    | Liebherr compact planetary reduction gear                 |
| <b>Maximum travel speed</b>            | 3.7 km/h / <b>2.3 mph</b>                                 |
| <b>Drawbar pull on crawler</b>         | 645 kN / <b>145,002 lbf</b>                               |
| <b>Track components</b>                | BMP280, maintenance-free                                  |
| <b>Track rollers / Carrier rollers</b> | 8 / 2                                                     |
| <b>Tracks</b>                          | Sealed and greased                                        |
| <b>Track pads</b>                      | Double grouser                                            |
| <b>Holding brake</b>                   | Wet multi-disc (spring applied, pressure released)        |
| <b>Brake valves</b>                    | Outside the travel motor                                  |
| <b>Lashing eyes</b>                    | Integrated                                                |



## Equipment

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

# Dimensions



|           |                                   | S-HD                                         | mm / ft in      |
|-----------|-----------------------------------|----------------------------------------------|-----------------|
| <b>A</b>  | Uppercarriage width               |                                              | 3,565 / 11' 8"  |
| <b>A1</b> | Uppercarriage width with catwalks |                                              | 4,730 / 15' 6"  |
| <b>B</b>  | Uppercarriage height              |                                              | 3,870 / 12' 8"  |
| <b>C</b>  | Cab height                        |                                              | 3,840 / 12' 7"  |
| <b>D</b>  | Counterweight ground clearance    |                                              | 1,765 / 5' 9"   |
| <b>E</b>  | Rear-end length                   |                                              | 4,515 / 14' 10" |
| <b>G</b>  | Wheelbase                         |                                              | 4,960 / 16' 3"  |
| <b>H</b>  | Undercarriage length              |                                              | 6,250 / 20' 6"  |
| <b>I</b>  | Undercarriage ground clearance    |                                              | 820 / 2' 8"     |
| <b>J</b>  | Track height                      |                                              | 1,595 / 5' 3"   |
| <b>K</b>  | Track gauge                       |                                              | 3,900 / 12' 10" |
| <b>L</b>  | Track pad width                   | 500 / 20" 600 / 24" 750 / 30"                |                 |
| <b>M</b>  | Width over tracks                 | 4,770 / 18' 8" 4,770 / 15' 8" 4,770 / 15' 8" |                 |
| <b>N</b>  | Width over steps                  | 5,315 / 17' 5" 5,315 / 17' 5" 5,315 / 17' 5" |                 |

|          |                  | Stick length<br>m / ft in              | Mono boom SME 7.20 m / 23' 7"<br>direct mounting<br>mm / ft in |
|----------|------------------|----------------------------------------|----------------------------------------------------------------|
| <b>T</b> | Boom height      | 2.90 / 9' 6" SME<br>3.30 / 10' 10" SME | 5,250 / 17' 3"<br>5,400 / 17' 9"                               |
| <b>U</b> | Length on ground | 2.90 / 9' 6" SME<br>3.30 / 10' 10" SME | 8,700 / 28' 7"<br>8,500 / 27' 11"                              |
| <b>V</b> | Overall length   | 2.90 / 9' 6" SME<br>3.30 / 10' 10" SME | 13,800 / 45' 3"<br>13,450 / 44' 2"                             |
|          | Bucket           |                                        | 6.30 m³ / 8.24 yd³                                             |

# Transport dimensions

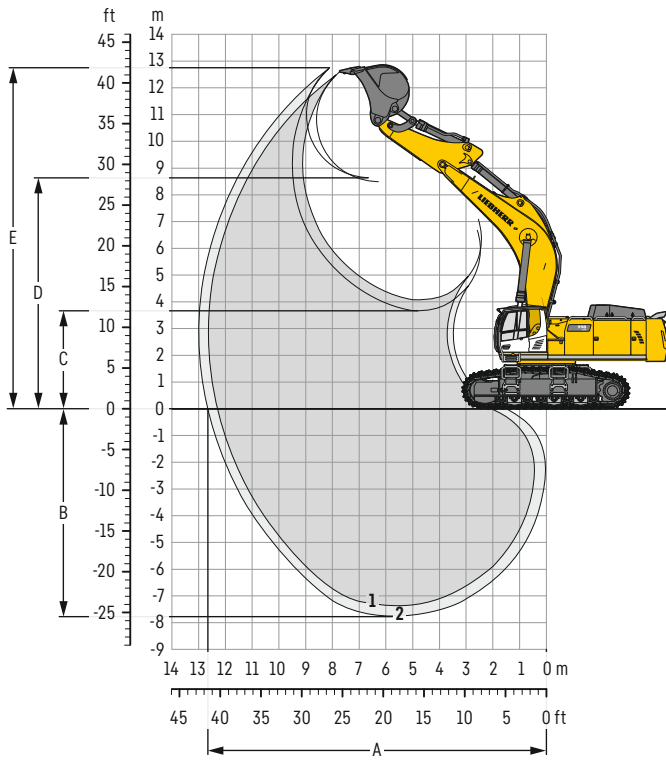
## removable elements disassembled

|                 | Mono boom SME 7.20 m / 23' 7"<br>mm / ft in |
|-----------------|---------------------------------------------|
| Transport width | 5,315 / 17' 5"                              |

|                  | Stick<br>m / ft in                     | mm / ft in                         |
|------------------|----------------------------------------|------------------------------------|
| Transport length | 2.90 / 9' 6" SME<br>3.30 / 10' 10" SME | 13,800 / 45' 3"<br>13,450 / 44' 2" |
| Transport height | 2.90 / 9' 6" SME<br>3.30 / 10' 10" SME | 5,250 / 17' 3"<br>5,400 / 17' 9"   |
| Bucket           |                                        | 6.30 m³ / 8.24 yd³                 |

# Backhoe bucket

with mono boom SME 7.20 m / 23'7"



## Digging envelope

| without quick coupler        |           | 1              | 2               |
|------------------------------|-----------|----------------|-----------------|
| Stick length                 | m / ft in | 2.90 / 9'6"    | 3.30 / 10'10"   |
|                              |           | SME            | SME             |
| A Max. reach at ground level | m / ft in | 12.30 / 40' 4" | 12.65 / 41' 6"  |
| B Max. digging depth         | m / ft in | 7.35 / 24' 1"  | 7.75 / 25' 5"   |
| C Min. dumping height        | m / ft in | 4.05 / 13' 3"  | 3.65 / 12'      |
| D Max. dumping height        | m / ft in | 8.50 / 27' 11" | 8.65 / 28' 5"   |
| E Max. cutting height        | m / ft in | 12.60 / 41' 4" | 12.75 / 41' 10" |

## Forces

| without quick coupler            |          | 1             | 2             |
|----------------------------------|----------|---------------|---------------|
| Stick digging force (ISO 6015)   | kN / lbf | 426 / 95,770  | 394 / 88,580  |
| Bucket digging force (ISO 6015)  | kN / lbf | 506 / 113,750 | 506 / 113,750 |
| Stick digging force (SAE J1179)  | kN / lbf | 406 / 91,270  | 377 / 84,750  |
| Bucket digging force (SAE J1179) | kN / lbf | 454 / 102,060 | 454 / 102,060 |

## Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 16.0t / 35,270 lb, mono boom SME 7.20 m / 23'7", stick SME 2.90 m / 9'6" and HDV bucket with semi-delta cutting edge 6.30 m<sup>3</sup> / 8.24 yd<sup>3</sup> (7,600 kg / 16,760 lb).

| Undercarriage   |                          | S-HD             |                  |                  |
|-----------------|--------------------------|------------------|------------------|------------------|
| Pad width       | mm / in                  | 500 / 20"        | 600 / 24"        | 750 / 30"        |
| Weight          | kg / lb                  | 97,700 / 215,390 | 98,400 / 216,930 | 99,400 / 219,140 |
| Ground pressure | kg/cm <sup>2</sup> / psi | 1.81 / 25.7      | 1.52 / 21.6      | 1.23 / 17.5      |

The operating weight includes the basic machine with counterweight 18.0t / 39,680 lb, mono boom SME 7.20 m / 23'7", stick SME 2.90 m / 9'6" and HDV bucket with semi-delta cutting edge 6.30 m<sup>3</sup> / 8.24 yd<sup>3</sup> (7,600 kg / 16,760 lb).

| Undercarriage   |                          | S-HD             |                   |                   |
|-----------------|--------------------------|------------------|-------------------|-------------------|
| Pad width       | mm / in                  | 500 / 20"        | 600 / 24"         | 750 / 30"         |
| Weight          | kg / lb                  | 99,700 / 219,800 | 100,400 / 221,340 | 101,400 / 223,550 |
| Ground pressure | kg/cm <sup>2</sup> / psi | 1.84 / 26.2      | 1.55 / 22.0       | 1.25 / 17.8       |

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

|                  |               |                      |        | S-HD undercarriage<br>SME equipment<br>(with track pads 750 mm / 30") |                |
|------------------|---------------|----------------------|--------|-----------------------------------------------------------------------|----------------|
|                  |               |                      |        | Stick length (m / ft in)                                              |                |
|                  |               |                      |        | 2.90<br>9'6"                                                          | 3.30<br>10'10" |
| HD <sup>1)</sup> | Cutting width | Capacity<br>ISO 7451 | Weight |                                                                       |                |
|                  | mm            | m <sup>3</sup>       | kg     |                                                                       |                |
|                  | ft in         | yd <sup>3</sup>      | lb     |                                                                       |                |
|                  | 2,350         | 6.20                 | 6,500  | ▲                                                                     | ■              |
|                  | 7'9"          | 8.11                 | 14,330 |                                                                       |                |
|                  | 2,500         | 6.80                 | 6,800  | ■                                                                     | ▲              |
|                  | 8'2"          | 8.89                 | 14,990 |                                                                       |                |
|                  | 2,500         | 6.80                 | 6,500  | ■                                                                     | ▲              |
|                  | 8'2"          | 8.89                 | 14,330 |                                                                       |                |
|                  | 2,550         | 7.20                 | 7,000  | ▲                                                                     | ■              |
|                  | 8'4"          | 9.42                 | 15,430 |                                                                       |                |
|                  | 2,200         | 5.20                 | 7,200  | ▲                                                                     | ▲              |
|                  | 7'3"          | 6.80                 | 15,870 |                                                                       |                |
|                  | 2,350         | 5.70                 | 7,300  | ▲                                                                     | ■              |
|                  | 7'9"          | 7.45                 | 16,090 |                                                                       |                |
|                  | 2,350         | 6.30                 | 7,600  | ■                                                                     | ▲              |
|                  | 7'9"          | 8.24                 | 16,760 |                                                                       |                |

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

<sup>1)</sup> HD bucket with semi-delta cutting edge and teeth Z 100 (appropriate for materials above classification 6, according to VOB, Section C, DIN 18300)

<sup>2)</sup> HD bucket with semi-delta cutting edge and teeth Z 90 (appropriate for materials above classification 6, according to VOB, Section C, DIN 18300)

<sup>3)</sup> HDV bucket with semi-delta cutting edge and teeth Z 100 (appropriate for materials above classification 6, according to VOB, Section C, DIN 18300)

Other buckets available upon request

Max. material weight ▲ = ≤ 2.0 t/m<sup>3</sup> / 3,400 lb/yd<sup>3</sup>, ■ = ≤ 1.8 t/m<sup>3</sup> / 3,000 lb/yd<sup>3</sup>, ▲ = ≤ 1.65 t/m<sup>3</sup> / 2,800 lb/yd<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup> / 2,500 lb/yd<sup>3</sup>

# Lift capacities

with mono boom SME 7.20 m / 23'7", counterweight 16.0 t / 35,270 lb and track pads 750 mm / 30"

## Stick SME 2.90 m / 9'6"

| Under-carriage | Height | 3.0m<br>10 ft              |                                           | 4.5m<br>15 ft              |                                           | 6.0m<br>20 ft              |                                           | 7.5m<br>25 ft              |                                           | 9.0m<br>30 ft              |                                           | 10.5m<br>35 ft             |                                           | Max. reach | ft in |
|----------------|--------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|------------|-------|
|                |        | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage |            |       |
| 10.5m t        |        |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           | 23.2°      | 23.2° |
| 35 ft lb       |        |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           | 51.9°      | 51.9° |
| 9.0m t         |        |                            |                                           |                            |                                           |                            |                                           | 21.2°                      | 21.2°                                     |                            |                                           |                            |                                           | 21.2°      | 21.2° |
| 30 ft lb       |        |                            |                                           |                            |                                           |                            |                                           | 46.8°                      | 46.8°                                     |                            |                                           |                            |                                           | 47.0°      | 47.0° |
| 7.5m t         |        |                            |                                           |                            |                                           |                            |                                           | 21.5°                      | 21.5°                                     | 20.3°                      | 20.3°                                     |                            |                                           | 20.3°      | 20.3° |
| 25 ft lb       |        |                            |                                           |                            |                                           |                            |                                           | 47.0°                      | 47.0°                                     |                            |                                           |                            |                                           | 44.9°      | 44.9° |
| 6.0m t         |        |                            |                                           |                            |                                           | 27.3°                      | 27.3°                                     | 23.0°                      | 23.0°                                     | 20.6°                      | 20.6°                                     |                            |                                           | 19.2°      | 20.0° |
| 20 ft lb       |        |                            |                                           |                            |                                           | 58.9°                      | 58.9°                                     | 49.9°                      | 49.9°                                     | 45.0°                      | 45.0°                                     |                            |                                           | 42.6°      | 44.1° |
| 4.5m t         |        |                            |                                           |                            |                                           | 31.4°                      | 31.4°                                     | 25.0°                      | 25.0°                                     | 21.5°                      | 21.5°                                     |                            |                                           | 17.7°      | 19.8° |
| 15 ft lb       |        |                            |                                           |                            |                                           | 67.5°                      | 67.5°                                     | 54.1°                      | 54.1°                                     | 46.6°                      | 46.6°                                     |                            |                                           | 39.1°      | 43.8° |
| 3.0m t         |        |                            |                                           |                            |                                           | 26.9°                      | 26.9°                                     | 20.9°                      | 22.4°                                     |                            |                                           |                            |                                           | 16.9°      | 19.9° |
| 10 ft lb       |        |                            |                                           |                            |                                           | 74.9°                      | 74.9°                                     | 58.1°                      | 58.1°                                     | 45.1°                      | 48.7°                                     |                            |                                           | 37.3°      | 43.8° |
| 1.5m t         |        |                            |                                           |                            |                                           | 36.2°                      | 36.2°                                     | 26.4°                      | 28.0°                                     | 20.3°                      | 23.0°                                     |                            |                                           | 16.8°      | 19.9° |
| 5 ft lb        |        |                            |                                           |                            |                                           | 78.3°                      | 78.3°                                     | 56.9°                      | 60.7°                                     | 43.8°                      | 49.9°                                     |                            |                                           | 37.1°      | 44.0° |
| 0m t           |        |                            |                                           |                            |                                           | 35.8°                      | 35.8°                                     | 25.8°                      | 28.1°                                     | 19.9°                      | 22.8°                                     |                            |                                           | 17.4°      | 20.0° |
| 0 ft lb        |        |                            |                                           |                            |                                           | 77.5°                      | 77.6°                                     | 55.6°                      | 60.9°                                     | 42.9°                      | 49.4°                                     |                            |                                           | 38.4°      | 44.1° |
| -1.5m t        |        |                            | 42.1°                                     | 42.1°                      |                                           | 33.8°                      | 33.8°                                     | 25.6°                      | 26.8°                                     | 19.8°                      | 21.3°                                     |                            |                                           | 18.9°      | 19.9° |
| -5 ft lb       |        |                            | 92.7°                                     | 92.7°                      |                                           | 73.2°                      | 73.2°                                     | 55.1°                      | 58.0°                                     | 42.8°                      | 45.6°                                     |                            |                                           | 41.8°      | 43.9° |
| -3.0m t        | 43.9°  | 43.9°                      | 37.1°                                     | 37.1°                      |                                           | 29.9°                      | 29.9°                                     | 23.6°                      | 23.6°                                     |                            |                                           |                            |                                           | 19.3°      | 19.3° |
| -10 ft lb      | 95.8°  | 95.8°                      | 80.4°                                     | 80.4°                      |                                           | 64.5°                      | 64.5°                                     | 50.5°                      | 50.5°                                     |                            |                                           |                            |                                           | 42.5°      | 42.5° |
| -4.5m t        |        |                            | 28.2°                                     | 28.2°                      |                                           | 22.7°                      | 22.7°                                     |                            |                                           |                            |                                           |                            |                                           | 17.4°      | 17.4° |
| -15 ft lb      |        |                            | 60.5°                                     | 60.5°                      |                                           | 48.0°                      | 48.0°                                     |                            |                                           |                            |                                           |                            |                                           | 38.0°      | 38.0° |

## Stick SME 3.30 m / 10'10"

| Under-carriage | Height | 3.0m<br>10 ft              |                                           | 4.5m<br>15 ft              |                                           | 6.0m<br>20 ft              |                                           | 7.5m<br>25 ft              |                                           | 9.0m<br>30 ft              |                                           | 10.5m<br>35 ft             |                                           | Max. reach | ft in |
|----------------|--------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|------------|-------|
|                |        | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage |            |       |
| 10.5m t        |        |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           | 21.2°      | 21.2° |
| 35 ft lb       |        |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           | 47.4°      | 47.4° |
| 9.0m t         |        |                            |                                           |                            |                                           |                            |                                           | 19.8°                      | 19.8°                                     |                            |                                           |                            |                                           | 19.8°      | 19.8° |
| 30 ft lb       |        |                            |                                           |                            |                                           |                            |                                           | 43.7°                      | 43.7°                                     |                            |                                           |                            |                                           | 43.8°      | 43.8° |
| 7.5m t         |        |                            |                                           |                            |                                           |                            |                                           | 20.4°                      | 20.4°                                     |                            |                                           |                            |                                           | 19.1°      | 19.1° |
| 25 ft lb       |        |                            |                                           |                            |                                           |                            |                                           | 44.5°                      | 44.5°                                     | 42.2°                      | 42.2°                                     |                            |                                           | 42.2°      | 42.2° |
| 6.0m t         |        |                            |                                           |                            |                                           | 25.9°                      | 25.9°                                     | 22.0°                      | 22.0°                                     | 19.8°                      | 19.8°                                     |                            |                                           | 18.1°      | 18.8° |
| 20 ft lb       |        |                            |                                           |                            |                                           | 55.8°                      | 55.8°                                     | 47.8°                      | 47.8°                                     | 43.1°                      | 43.1°                                     |                            |                                           | 40.1°      | 41.5° |
| 4.5m t         |        |                            |                                           |                            |                                           | 30.0°                      | 30.0°                                     | 24.1°                      | 24.1°                                     | 20.8°                      | 20.8°                                     | 16.8                       | 18.8°                                     | 16.7       | 18.8° |
| 15 ft lb       |        |                            |                                           |                            |                                           | 64.7°                      | 64.7°                                     | 52.2°                      | 52.2°                                     | 45.2°                      | 45.2°                                     |                            |                                           | 36.9       | 41.4° |
| 3.0m t         |        |                            |                                           |                            |                                           | 33.7°                      | 33.7°                                     | 26.2°                      | 26.2°                                     | 20.9°                      | 21.9°                                     | 16.4                       | 19.1°                                     | 16.0       | 18.8° |
| 10 ft lb       |        |                            |                                           |                            |                                           | 72.7°                      | 72.7°                                     | 56.6°                      | 56.6°                                     | 45.1                       | 47.4°                                     | 35.3                       | 41.6°                                     | 35.3       | 41.5° |
| 1.5m t         |        |                            |                                           |                            |                                           | 35.7°                      | 35.7°                                     | 26.4                       | 27.6°                                     | 20.2                       | 22.6°                                     | 16.1                       | 19.2°                                     | 15.9       | 19.0° |
| 5 ft lb        |        |                            |                                           |                            |                                           | 77.2°                      | 77.2°                                     | 57.0                       | 59.7°                                     | 43.6                       | 49.0°                                     |                            |                                           | 35.0       | 41.8° |
| 0m t           |        |                            |                                           |                            |                                           | 35.9°                      | 35.9°                                     | 25.7                       | 28.0°                                     | 19.8                       | 22.7°                                     |                            |                                           | 16.4       | 19.1° |
| 0 ft lb        |        |                            |                                           |                            |                                           | 77.4                       | 77.7°                                     | 55.4                       | 60.5°                                     | 42.6                       | 49.2°                                     |                            |                                           | 36.1       | 42.1° |
| -1.5m t        |        |                            | 41.0°                                     | 41.0°                      |                                           | 34.3°                      | 34.3°                                     | 25.4                       | 27.1°                                     | 19.6                       | 21.7°                                     |                            |                                           | 17.7       | 19.1° |
| -5 ft lb       |        |                            | 94.2°                                     | 94.2°                      |                                           | 74.4°                      | 74.4°                                     | 54.7                       | 58.6°                                     | 42.2                       | 46.7°                                     |                            |                                           | 39.0       | 42.2° |
| -3.0m t        | 41.1°  | 41.1°                      | 39.2°                                     | 39.2°                      |                                           | 31.0°                      | 31.0°                                     | 24.5°                      | 24.5°                                     |                            |                                           |                            |                                           | 18.8°      | 18.8° |
| -10 ft lb      | 93.2°  | 93.2°                      | 85.1°                                     | 85.1°                      |                                           | 67.0°                      | 67.0°                                     | 52.7°                      | 52.7°                                     |                            |                                           |                            |                                           | 41.5°      | 41.5° |
| -4.5m t        |        |                            | 31.2°                                     | 31.2°                      |                                           | 24.9°                      | 24.9°                                     | 18.2°                      | 18.2°                                     |                            |                                           |                            |                                           | 17.6°      | 17.6° |
| -15 ft lb      |        |                            | 67.1°                                     | 67.1°                      |                                           | 53.1°                      | 53.1°                                     |                            |                                           |                            |                                           |                            |                                           | 38.6°      | 38.6° |

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 750 mm / 30" 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 1,450 kg / 3,200 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.

with mono boom SME 7.20 m / 23'7", counterweight 18.0 t / 39,680 lb and track pads 750 mm / 30"

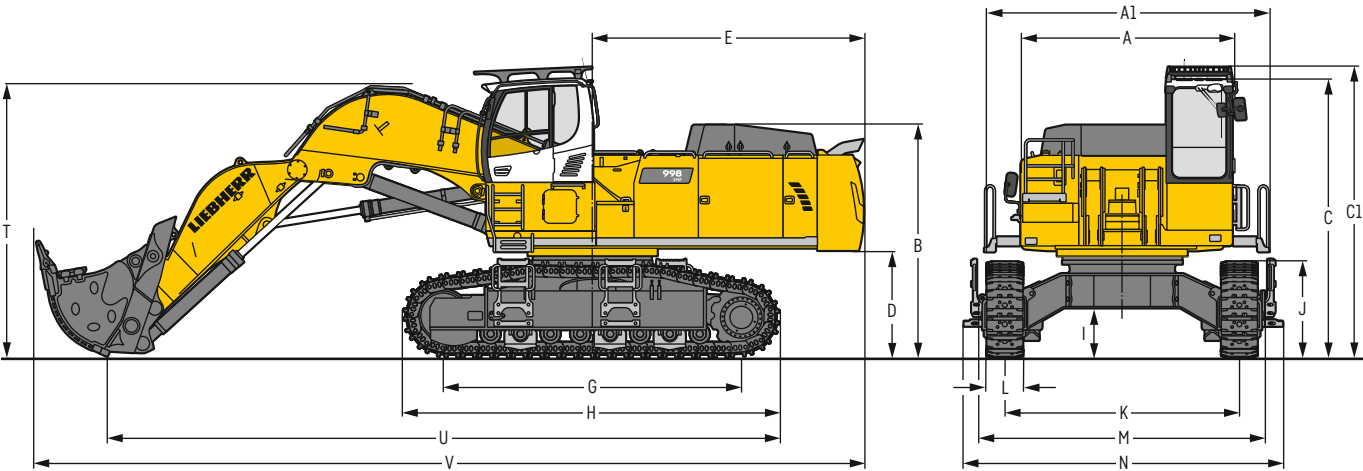
## Stick SME 2.90 m / 9'6"

| Under-carriage | Height | 3.0m<br>10 ft              |                                           | 4.5m<br>15 ft              |                                           | 6.0m<br>20 ft              |                                           | 7.5m<br>25 ft              |                                           | 9.0m<br>30 ft              |                                           | 10.5m<br>35 ft             |                                           | Max. reach | ft in |
|----------------|--------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|----------------------------|-------------------------------------------|------------|-------|
|                |        | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage | Can be slewed through 360° | In longitudinal position of undercarriage |            |       |
| 10.5m t        |        |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           | 23.2°      | 23.2° |
| 35 ft lb       |        |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           |                            |                                           | 51.9°      | 51.9° |
| 9.0m t         |        |                            |                                           |                            |                                           |                            |                                           | 21.2°                      | 21.2°                                     |                            |                                           |                            |                                           | 21.2°      | 21.2° |
| 30 ft lb       |        |                            |                                           |                            |                                           |                            |                                           | 46.8°                      | 46.8°                                     |                            |                                           |                            |                                           | 47.0°      | 47.0° |
| 7.5m t         |        |                            |                                           |                            |                                           |                            |                                           | 21.5°                      | 21.5°                                     | 20.3°                      | 20.3°                                     |                            |                                           | 20.3°      | 20.3° |
| 25 ft lb       |        |                            |                                           |                            |                                           |                            |                                           | 47.0°                      | 47.0°                                     |                            |                                           |                            |                                           | 44.9°      | 44.9° |
| 6.0m t         |        |                            |                                           |                            |                                           | 27.3°                      | 27.3°                                     | 23.0°                      | 23.0°                                     | 20.6°                      | 20.6°                                     |                            |                                           | 20.0°      | 20.0° |
| 20 ft lb       |        |                            |                                           |                            |                                           | 58.9°                      | 58.9°                                     | 49.9°                      | 49.9°                                     | 45.0°                      | 45.0°                                     |                            |                                           | 44.1°      | 44.1° |
| 4.5m t         |        |                            |                                           |                            |                                           | 31.4°                      | 31.4°                                     | 25.0°                      | 25.0°                                     | 21.5°                      | 21.5°                                     |                            |                                           | 18.8       | 19.8° |
| 15 ft lb       |        |                            |                                           |                            |                                           | 67.5°                      | 67.5°                                     | 54.1°                      | 54.1°                                     | 46.8°                      | 46.8°                                     |                            |                                           | 41.6       | 43.8° |
| 3.0m t         |        |                            |                                           |                            |                                           | 26.9°                      | 26.9°                                     | 22.3                       | 22.4°                                     |                            |                                           |                            |                                           | 18.1       | 19.9° |
| 10 ft lb       |        |                            |                                           |                            |                                           | 74.9°                      | 74.9°                                     | 58.1°                      | 58.1°                                     | 48.0                       | 48.7°                                     |                            |                                           | 39.8       | 43.8° |
| 1.5m t         |        |                            |                                           |                            |                                           | 36.2°                      | 36.2°                                     | 28.0°                      | 28.0°                                     | 21.6                       | 23.0°                                     |                            |                                           | 18.0       | 19.9° |
| 5 ft lb        |        |                            |                                           |                            |                                           | 78.3°                      | 78.3°                                     | 60.6                       | 60.7°                                     | 46.7                       | 49.9°                                     |                            |                                           | 39.6       | 44.0° |
| 0m t           |        |                            |                                           |                            |                                           | 35.8°                      | 35.8°                                     | 27.5                       | 28.1°                                     | 21.2                       | 22.8°                                     |                            |                                           | 18.6       | 20.0° |
| 0 ft lb        |        |                            |                                           |                            |                                           | 77.6°                      | 77.6°                                     | 59.3                       | 60.9°                                     | 45.8                       | 49.4°                                     |                            |                                           | 41.0       | 44.1° |
| -1.5m t        |        |                            | 42.1°                                     | 42.1°                      |                                           | 33.8°                      | 33.8°                                     | 26.8°                      | 26.8°                                     | 19.8°                      | 21.3°                                     |                            |                                           | 19.9°      | 19.9° |
| -5 ft lb       |        |                            | 92.7°                                     | 92.7°                      |                                           | 73.2°                      | 73.2°                                     | 58.0°                      | 58.0°                                     | 45.6°                      | 45.6°                                     |                            |                                           | 43.9°      | 43.9° |
| -3.0m t        | 43.9°  | 43.9°                      | 37.1°                                     | 37.1°                      |                                           | 29.9°                      | 29.9°                                     | 23.6°                      | 23.6°                                     |                            |                                           |                            |                                           | 19.3°      | 19.3° |
| -10 ft lb      | 95.8°  | 95.8°                      | 80.4°                                     | 80.4°                      |                                           | 64.5°                      | 64.5°                                     | 50.5°                      | 50.5°                                     |                            |                                           |                            |                                           | 42.5°      | 42.5° |
| -4.5m t        |        |                            | 28.2°                                     | 28.2°                      |                                           | 22.7°                      | 22.7°                                     |                            |                                           |                            |                                           |                            |                                           | 17.4°      | 17.4° |
| -15 ft lb      |        |                            | 60.5°                                     | 60.5°                      |                                           | 48.0°                      | 48.0°                                     |                            |                                           |                            |                                           |                            |                                           | 38.0°      | 38.0° |

## Stick SME 3.30 m / 10'10"

| Under-carriage |  | 3.0m                                                                                | 4.5m                                                                                 | 6.0m                                                                                  | 7.5m                                                                                  | 9.0m                                                                                  | 10.5m                                                                                 |  |                                                                                       |                                                                                       |                    |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------|
|                |                                                                                     | 10 ft                                                                               | 15 ft                                                                                | 20 ft                                                                                 | 25 ft                                                                                 | 30 ft                                                                                 | 35 ft                                                                                 |  |  | m                                                                                     |                    |
|                |                                                                                     |  |  |  |  |  |  |  |  |  | ft in              |
| 10.5m t        | t                                                                                   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 21.2° 21.2° 7.2    |
| 35ft lb        | lb                                                                                  |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 47.4° 47.4° 23'    |
| 9.0m t         | t                                                                                   |                                                                                     |                                                                                      |                                                                                       | 19.8° 19.8°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 19.8° 19.8° 8.6    |
| 30ft lb        | lb                                                                                  |                                                                                     |                                                                                      |                                                                                       | 43.7° 43.7°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 43.8° 43.8° 27'11" |
| 7.5m t         | t                                                                                   |                                                                                     |                                                                                      |                                                                                       | 20.4° 20.4°                                                                           | 19.2° 19.2°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 19.1° 19.1° 9.5    |
| 25ft lb        | lb                                                                                  |                                                                                     |                                                                                      |                                                                                       | 44.5° 44.5°                                                                           | 42.2° 42.2°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 42.2° 42.2° 31'1"  |
| 6.0m t         | t                                                                                   |                                                                                     |                                                                                      | 25.9° 25.9°                                                                           | 22.0° 22.0°                                                                           | 19.8° 19.8°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 18.8° 18.8° 10.2   |
| 20ft lb        | lb                                                                                  |                                                                                     |                                                                                      | 55.8° 55.8°                                                                           | 47.8° 47.8°                                                                           | 43.1° 43.1°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 41.5° 41.5° 33'4"  |
| 4.5m t         | t                                                                                   |                                                                                     |                                                                                      | 30.0° 30.0°                                                                           | 24.1° 24.1°                                                                           | 20.8° 20.8°                                                                           | 17.9 18.8°                                                                            |                                                                                       |                                                                                       |                                                                                       | 17.8 18.8° 10.5    |
| 15ft lb        | lb                                                                                  |                                                                                     |                                                                                      | 64.7° 64.7°                                                                           | 52.2° 52.2°                                                                           | 45.2° 45.2°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 39.3 41.4° 34'6"   |
| 3.0m t         | t                                                                                   |                                                                                     |                                                                                      | 33.7° 33.7°                                                                           | 26.2° 26.2°                                                                           | 21.9° 21.9°                                                                           | 17.5 19.1°                                                                            |                                                                                       |                                                                                       |                                                                                       | 17.1 18.8° 10.7    |
| 10ft lb        | lb                                                                                  |                                                                                     |                                                                                      | 72.7° 72.7°                                                                           | 56.6° 56.6°                                                                           | 47.4° 47.4°                                                                           | 37.7 41.6°                                                                            |                                                                                       |                                                                                       |                                                                                       | 37.7 41.5° 35'     |
| 1.5m t         | t                                                                                   |                                                                                     |                                                                                      | 35.7° 35.7°                                                                           | 27.6° 27.6°                                                                           | 21.6 22.6°                                                                            | 17.2 19.2°                                                                            |                                                                                       |                                                                                       |                                                                                       | 17.0 19.0° 10.6    |
| 5ft lb         | lb                                                                                  |                                                                                     |                                                                                      | 77.2° 77.2°                                                                           | 59.7° 59.7°                                                                           | 46.5 49.0°                                                                            |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 37.4 41.8° 34'10"  |
| 0m t           | t                                                                                   |                                                                                     |                                                                                      | 35.9° 35.9°                                                                           | 27.4 28.0°                                                                            | 21.1 22.7°                                                                            |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 17.5 19.1° 10.3    |
| 0ft lb         | lb                                                                                  |                                                                                     |                                                                                      | 77.7° 77.7°                                                                           | 59.1° 60.5°                                                                           | 45.5 49.2°                                                                            |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 38.6 42.1° 33'8"   |
| -1.5m t        | t                                                                                   |                                                                                     | 41.0° 41.0°                                                                          | 34.3° 34.3°                                                                           | 27.1° 27.1°                                                                           | 20.9 21.7°                                                                            |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 18.9 19.1° 9.7     |
| -5ft lb        | lb                                                                                  |                                                                                     | 94.2° 94.2°                                                                          | 74.4° 74.4°                                                                           | 58.4 58.6°                                                                            | 45.1 46.7°                                                                            |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 41.7 42.2° 31'11"  |
| -3.0m t        | t                                                                                   | 41.1° 41.1°                                                                         | 39.2° 39.2°                                                                          | 31.0° 31.0°                                                                           | 24.5° 24.5°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 18.8° 18.8° 8.9    |
| -10ft lb       | lb                                                                                  | 93.2° 93.2°                                                                         | 85.1° 85.1°                                                                          | 67.0° 67.0°                                                                           | 52.7° 52.7°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 41.5° 41.5° 29°    |
| -4.5m t        | t                                                                                   |                                                                                     | 31.2° 31.2°                                                                          | 24.9° 24.9°                                                                           | 18.2° 18.2°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 17.6° 17.6° 7.6    |
| -15ft lb       | lb                                                                                  |                                                                                     | 67.1° 67.1°                                                                          | 53.1° 53.1°                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 38.6° 38.6° 24'8"  |

# Dimensions front shovel



|    | S-HD                              | mm / ft in      |
|----|-----------------------------------|-----------------|
| A  | Uppercarriage width               | 3,565 / 11' 8"  |
| A1 | Uppercarriage width with catwalks | 4,730 / 15' 6"  |
| B  | Uppercarriage height              | 3,870 / 12' 8"  |
| C  | Cab height                        | 4,650 / 15' 3"  |
| C1 | Cab height with FOPS top guard    | 4,845 / 15' 11" |
| D  | Counterweight ground clearance    | 1,765 / 5' 9"   |
| E  | Rear-end length                   | 4,515 / 14' 10" |
| G  | Wheelbase                         | 4,960 / 16' 3"  |
| H  | Undercarriage length              | 6,250 / 20' 6"  |

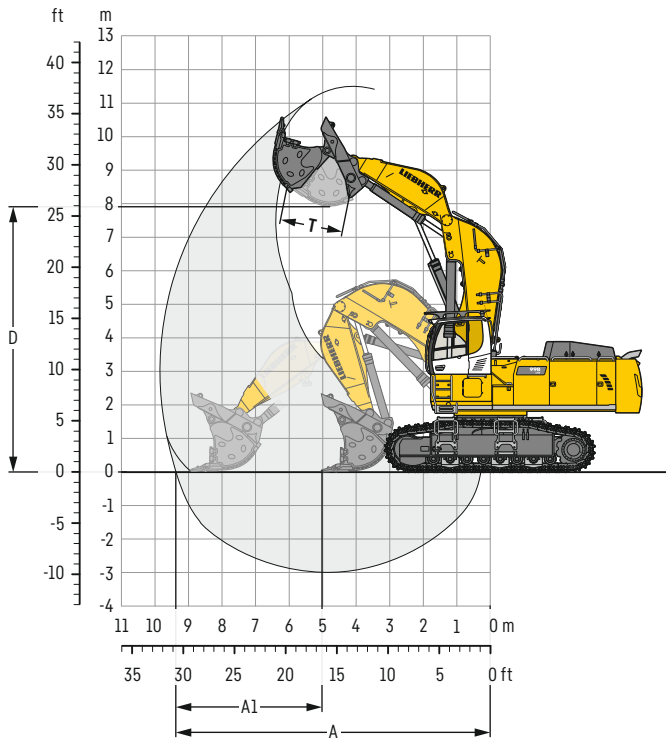
|   | S-HD                           | mm / ft in                                   |
|---|--------------------------------|----------------------------------------------|
| I | Undercarriage ground clearance | 820 / 2' 8"                                  |
| J | Track height                   | 1,595 / 5' 3"                                |
| K | Track gauge                    | 3,900 / 12' 10"                              |
| L | Track pad width                | 500 / 20" 600 / 24" 750 / 30"                |
| M | Width over tracks              | 4,770 / 18' 8" 4,770 / 15' 8" 4,770 / 15' 8" |
| N | Width over steps               | 5,315 / 17' 5" 5,315 / 17' 5" 5,315 / 17' 5" |
| T | Boom height                    | 4,550 / 14' 11"                              |
| U | Length on ground               | 11,200 / 36' 9"                              |
| V | Overall length                 | 13,800 / 45' 3"                              |

# Transport dimensions

removable elements disassembled

|                  | Shovel equipment<br>mm / ft in |
|------------------|--------------------------------|
| Transport width  | 5,315 / 17' 5"                 |
| Transport length | 13,800 / 45' 3"                |
| Transport height | 4,845 / 15' 11"                |
| Shovel           | 6.00 m³ / 7.85 yd³             |

# Front shovel



## Digging envelope

|    |                            |            |                |
|----|----------------------------|------------|----------------|
| A  | Max. reach at ground level | m / ft in  | 9.35 / 30' 8"  |
| A1 | Max. crowd length          | m / ft in  | 3.90 / 12' 10" |
| D  | Max. dumping height        | m / ft in  | 8.00 / 26' 3"  |
| T  | Bucket opening width       | mm / ft in | 1,825 / 6'     |

## Forces

|                                  |          |               |
|----------------------------------|----------|---------------|
| Max. crowd force                 | kN / lbf | 690 / 155,120 |
| Max. crowd force at ground level | kN / lbf | 490 / 110,160 |
| Max. breakout force              | kN / lbf | 500 / 112,410 |

## Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 16.0t / 35,270 lb, cab elevation 800 mm / 2'7", operator's cab protective guard, shovel equipment SME and front shovel 6.00 m³ / 7.85 yd³ (10,000 kg / 22,050 lb), level II.

| Undercarriage   |              | S-HD             |                   |                   |
|-----------------|--------------|------------------|-------------------|-------------------|
| Pad width       | mm / in      | 500 / 20"        | 600 / 24"         | 750 / 30"         |
| Weight          | kg / lb      | 99,800 / 220,020 | 100,500 / 221,570 | 101,500 / 223,770 |
| Ground pressure | kg/cm² / psi | 1.84 / 26.2      | 1.55 / 22.0       | 1.25 / 17.8       |

## Front Shovels

| Cutting width | Capacity ISO 7461 | Weight | Wear kit level | S-HD undercarriage | Shovel equipment |
|---------------|-------------------|--------|----------------|--------------------|------------------|
| mm            | m³                | kg     |                |                    |                  |
| ft in         | yd³               | lb     |                |                    |                  |
| 2,700         | 5.10              | 8,450  | I              | ▲                  | ▲                |
| 8'10"         | 6.67              | 18,630 |                |                    |                  |
| 2,700         | 5.10              | 9,100  | II             | ▲                  | ▲                |
| 8'10"         | 6.67              | 20,060 |                |                    |                  |
| 2,700         | 5.10              | 10,150 | III            | ▲                  | ▲                |
| 8'10"         | 6.67              | 22,380 |                |                    |                  |
| 2,700         | 5.60              | 8,750  | I              | ▲                  | ▲                |
| 8'10"         | 7.32              | 19,290 |                |                    |                  |
| 2,700         | 5.60              | 9,500  | II             | ▲                  | ▲                |
| 8'10"         | 7.32              | 20,940 |                |                    |                  |
| 2,700         | 5.60              | 11,000 | III            | ▲                  | ▲                |
| 8'10"         | 7.32              | 24,250 |                |                    |                  |
| 2,700         | 6.00              | 9,000  | I              | ▲                  | ▲                |
| 8'10"         | 7.85              | 19,840 |                |                    |                  |
| 2,700         | 6.00              | 10,000 | II             | ■                  | ■                |
| 8'10"         | 7.85              | 22,050 |                |                    |                  |
| 2,700         | 6.00              | 11,300 | III            | ■                  | ■                |
| 8'10"         | 7.85              | 24,910 |                |                    |                  |
| 3,150         | 6.50              | 10,300 | I              | ■                  | ■                |
| 10'4"         | 8.50              | 22,710 |                |                    |                  |
| 3,150         | 6.50              | 11,000 | II             | ▲                  | ▲                |
| 10'4"         | 8.50              | 24,250 |                |                    |                  |
| 3,150         | 6.50              | 12,900 | III            | ■                  | ■                |
| 10'4"         | 8.50              | 28,440 |                |                    |                  |

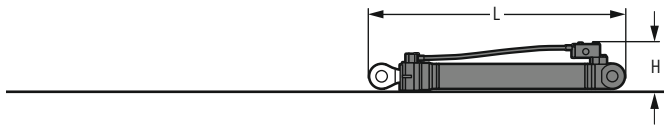
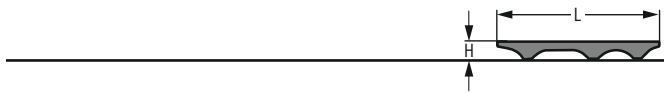
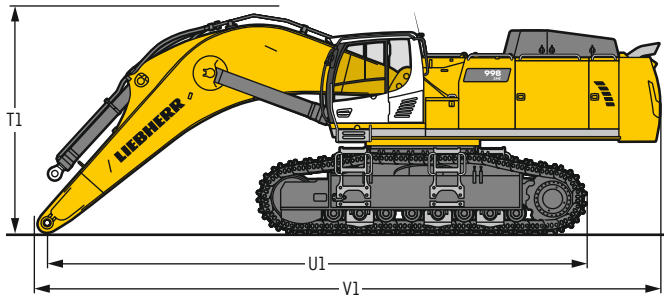
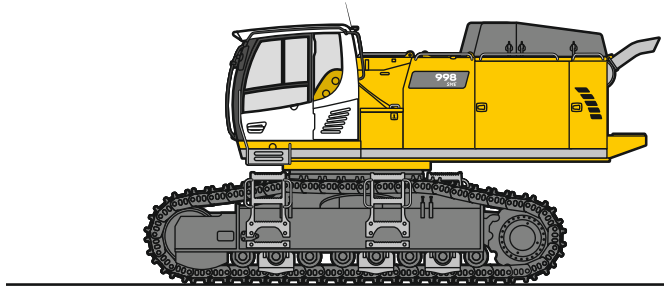
Level I: For non-abrasive materials, such as limestone without flint inclusion, shot material or easily breakable rock, i.e., deteriorated rock, soft limestone, shale, etc.

Level II: For pre-blasted heavy rock, or deteriorated, cracked material (classification 3 to 4, according to DIN 18300)

Level III: For highly-abrasive materials such as rock with a high silica content, sandstone etc.

Max. material weight ▲ = ≤ 2.0 t/m³ / 3,400 lb/yd³, ■ = ≤ 1.8 t/m³ / 3,000 lb/yd³, ▲ = ≤ 1.65 t/m³ / 2,800 lb/yd³, ■ = ≤ 1.5 t/m³ / 2,500 lb/yd³

# Dimensions and weights



## Basic machine

|                                                                            |         |                  |                  |                  |
|----------------------------------------------------------------------------|---------|------------------|------------------|------------------|
| Track pads                                                                 | mm / in | 500 / 20"        | 600 / 24"        | 750 / 30"        |
| Weight with backhoe equipment and S-HD undercarriage without counterweight | kg / lb | 56,600 / 124,780 | 57,300 / 126,330 | 58,350 / 128,640 |
| Weight with shovel equipment and S-HD undercarriage without counterweight  | kg / lb | 56,700 / 125,000 | 57,400 / 126,550 | 58,450 / 128,860 |

## Machine without stick

|    |            |                 |
|----|------------|-----------------|
| T1 | mm / ft in | 4,250 / 13'11"  |
| U1 | mm / ft in | 10,300 / 33'10" |
| V1 | mm / ft in | 11,850 / 39'11" |

## Cab elevation

|          |            |               |
|----------|------------|---------------|
|          |            | 800 mm / 2'7" |
| L Length | mm / ft in | 1,890 / 6'2"  |
| H Height | mm / ft in | 925 / 3'      |
| Width    | mm / ft in | 1,370 / 4'6"  |
| Weight   | kg / lb    | 600 / 1,320   |

## Counterweight

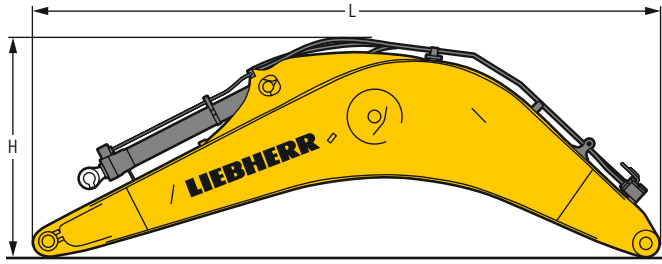
|          |            |                 |                 |
|----------|------------|-----------------|-----------------|
| L Length | mm / ft in | 775 / 2'7"      | 775 / 2'7"      |
| H Height | mm / ft in | 1,595 / 5'3"    | 1,595 / 5'3"    |
| Width    | mm / ft in | 3,360 / 11'     | 3,360 / 11'     |
| Weight   | kg / lb    | 16,000 / 35,270 | 18,000 / 39,680 |

## Upper protection screen

|          |            |              |
|----------|------------|--------------|
| L Length | mm / ft in | 1,960 / 6'5" |
| H Height | mm / ft in | 190 / 7"     |
| Width    | mm / ft in | 1,110 / 3'8" |
| Weight   | kg / lb    | 75 / 170     |

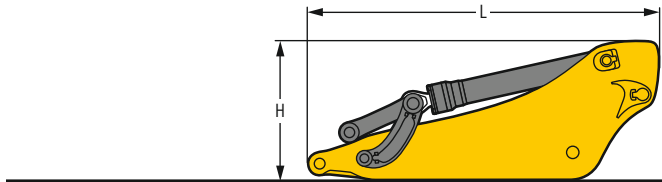
## Hoist cylinders (two)

|          |            |                       |
|----------|------------|-----------------------|
| L Length | mm / ft in | 2,920 / 9' 7"         |
| H Height | mm / ft in | 550 / 1'10"           |
| Width    | mm / ft in | 400 / 1' 4"           |
| Weight   | kg / lb    | 2 x 1,050 / 2 x 2,320 |



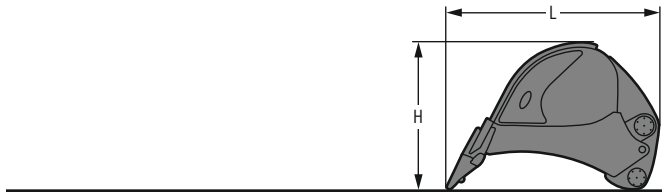
### Mono boom with stick cylinder

|             |            |                 |
|-------------|------------|-----------------|
| Boom length | m / ft in  | 7.20 / 23' 7"   |
| L Length    | mm / ft in | 7,550 / 24' 9"  |
| H Height    | mm / ft in | 2,700 / 8'10"   |
| Width       | mm / ft in | 1,460 / 4' 9"   |
| Weight      | kg / lb    | 10,300 / 22,710 |



### Stick with bucket cylinder

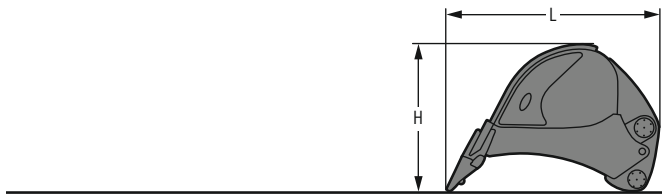
|              |            |                |                |
|--------------|------------|----------------|----------------|
| Stick length | m / ft in  | 2.90 / 9' 6"   | 3.30 / 10'10"  |
| L Length     | mm / ft in | 4,050 / 13' 3" | 4,450 / 14' 7" |
| H Height     | mm / ft in | 1,700 / 5' 7"  | 1,650 / 5' 5"  |
| Width        | mm / ft in | 900 / 2'11"    | 900 / 2'11"    |
| Weight       | kg / lb    | 5,050 / 11,130 | 5,350 / 11,800 |



### Backhoe buckets (semi-delta cutting edge, teeth Z 100)

HD

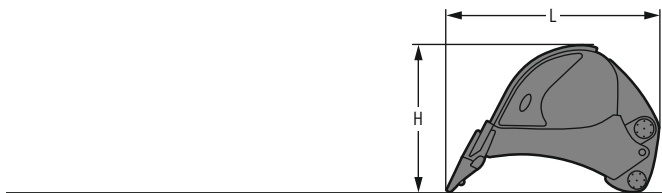
|               |            |                |                |
|---------------|------------|----------------|----------------|
| Cutting width | mm / ft in | 2,350 / 7'9"   | 2,500 / 8'2"   |
| Capacity      | m³ / yd³   | 6.20 / 8.11    | 6.80 / 8.89    |
| L Length      | mm / ft in | 3,050 / 10'    | 3,050 / 10'    |
| H Height      | mm / ft in | 2,150 / 7' 1"  | 2,150 / 7' 1"  |
| Width         | mm / ft in | 2,400 / 7'10"  | 2,550 / 8' 4"  |
| Weight        | kg / lb    | 6,500 / 14,330 | 6,800 / 14,990 |



### Backhoe buckets (semi-delta cutting edge, teeth Z 90)

HD

|               |            |                |                |
|---------------|------------|----------------|----------------|
| Cutting width | mm / ft in | 2,500 / 8'2"   | 2,550 / 8'4"   |
| Capacity      | m³ / yd³   | 6.80 / 8.89    | 7.20 / 9.42    |
| L Length      | mm / ft in | 3,100 / 10' 2" | 3,100 / 10' 2" |
| H Height      | mm / ft in | 2,200 / 7' 3"  | 2,200 / 7' 3"  |
| Width         | mm / ft in | 2,600 / 8' 6"  | 2,600 / 8' 6"  |
| Weight        | kg / lb    | 6,500 / 14,330 | 7,000 / 15,430 |

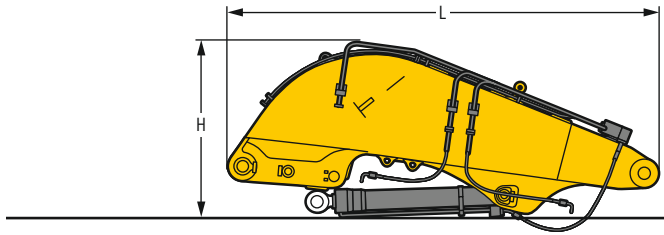


### Backhoe buckets (semi-delta cutting edge, teeth Z 100)

HDV

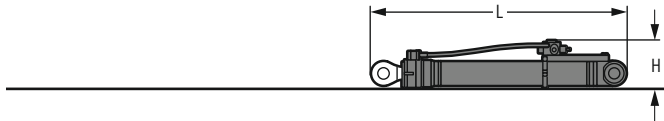
|               |            |                |                |                |
|---------------|------------|----------------|----------------|----------------|
| Cutting width | mm / ft in | 2,200 / 7'3"   | 2,350 / 7'9"   | 2,350 / 7'9"   |
| Capacity      | m³ / yd³   | 5.20 / 6.80    | 5.70 / 7.45    | 6.30 / 8.24    |
| L Length      | mm / ft in | 2,950 / 9'8"   | 2,950 / 9' 8"  | 3,050 / 10'    |
| H Height      | mm / ft in | 2,150 / 7'1"   | 2,150 / 7' 1"  | 2,200 / 7' 3"  |
| Width         | mm / ft in | 2,250 / 7'5"   | 2,400 / 7'10"  | 2,400 / 7'10"  |
| Weight        | kg / lb    | 7,200 / 15,870 | 7,300 / 16,090 | 7,600 / 16,760 |

# Dimensions and weights



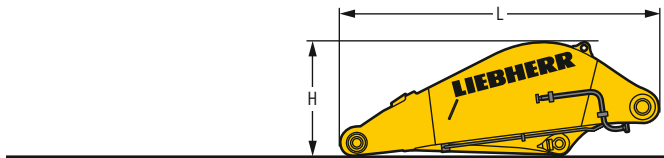
## Shovel boom

|   |                               |            |                   |
|---|-------------------------------|------------|-------------------|
| L | Length                        | mm / ft in | 4,950 / 16'3"     |
| H | Height                        | mm / ft in | 2,050 / 6'9"      |
|   | Width                         | mm / ft in | 1,650 / 5'5"      |
|   | Weight without crowd cylinder | kg / lb    | 7,300 / 16,090    |
|   | Weight crowd cylinder         | kg / lb    | 2 x 450 / 2 x 990 |



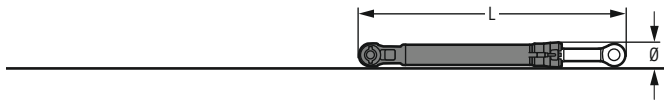
## Shovel hoist cylinders (two)

|   |        |            |                       |
|---|--------|------------|-----------------------|
| L | Length | mm / ft in | 2,920 / 9' 7"         |
| H | Height | mm / ft in | 550 / 1'10"           |
|   | Width  | mm / ft in | 450 / 1' 6"           |
|   | Weight | kg / lb    | 2 x 1,100 / 2 x 2,430 |



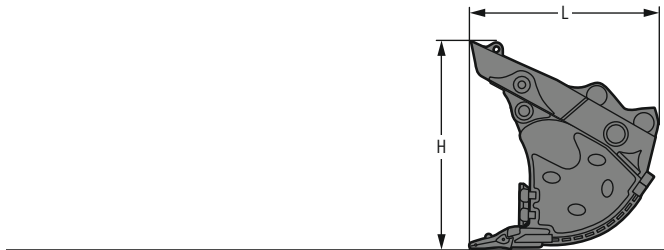
## Shovel stick

|   |        |            |                |
|---|--------|------------|----------------|
| L | Length | mm / ft in | 3,660 / 12'    |
| H | Height | mm / ft in | 1,300 / 4' 3"  |
|   | Width  | mm / ft in | 1,800 / 5'11"  |
|   | Weight | kg / lb    | 4,650 / 10,250 |



## Shovel bucket cylinders (two)

|   |        |            |                     |
|---|--------|------------|---------------------|
| L | Length | mm / ft in | 3,050 / 10'         |
| Ø | Height | mm / ft in | 450 / 1'6"          |
|   | Width  | mm / ft in | 450 / 1'6"          |
|   | Weight | kg / lb    | 2 x 625 / 2 x 1,380 |



## Front shovels

|               |            |                 |                 |                 |                 |
|---------------|------------|-----------------|-----------------|-----------------|-----------------|
| Cutting width | mm / ft in | 2,700 / 8'10"   | 2,700 / 8'10"   | 2,700 / 8'10"   | 3,150 / 10'4"   |
| Capacity      | m³ / yd³   | 5.10 / 6.67     | 5.60 / 7.32     | 6.00 / 7.85     | 6.50 / 8.50     |
| L             | Length     | mm / ft in      | 2,600 / 8' 6"   | 2,800 / 9' 2"   | 2,800 / 9' 2"   |
| H             | Height     | mm / ft in      | 2,700 / 8'10"   | 2,700 / 8'10"   | 2,700 / 8'10"   |
|               | Width      | mm / ft in      | 2,700 / 8'10"   | 2,700 / 8'10"   | 3,150 / 10' 4"  |
|               | Weight     |                 |                 |                 |                 |
| Level I       | kg / lb    | 8,450 / 18,630  | 8,750 / 19,290  | 9,000 / 19,840  | 10,300 / 22,710 |
| Level II      | kg / lb    | 9,100 / 20,060  | 9,500 / 20,940  | 10,000 / 22,050 | 11,000 / 24,250 |
| Level III     | kg / lb    | 10,150 / 22,380 | 11,000 / 24,250 | 11,300 / 24,910 | 12,900 / 28,440 |