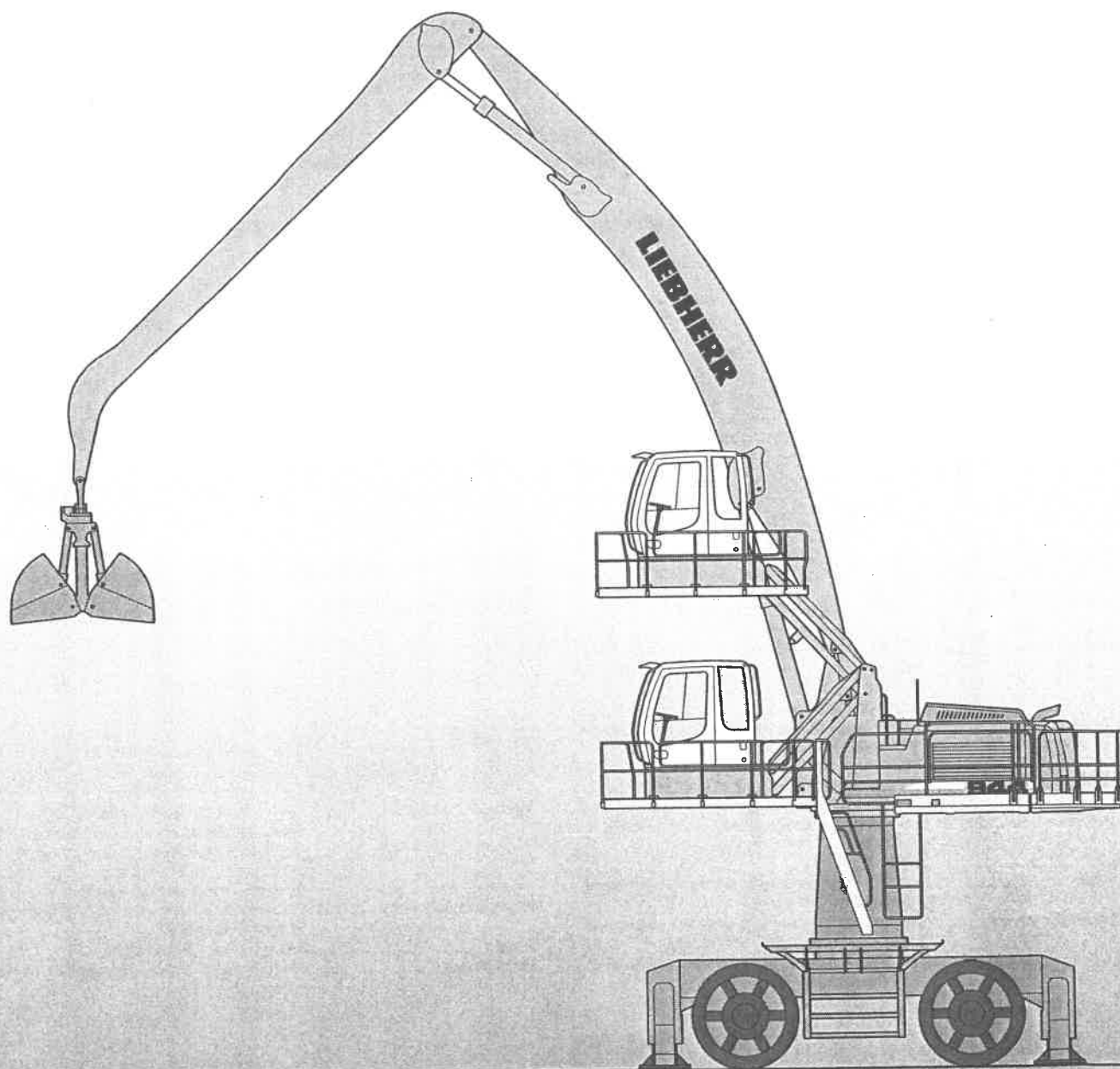


# Machine for Industrial Applications **A 944 C HD**

Litronic<sup>2</sup> High Rise

Operating Weight: 62,550 – 66,550 kg  
Engine Output: 190 kW / 258 HP



# LIEBHERR

# Technical Data



## Engine

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| Rating per ISO 9249 | 190 kW (258 HP) at 1800 RPM                                                                  |
| Model               | Liebherr D 936 L according to level IIIA/Tier 3                                              |
| Type                | 6 cylinder in-line                                                                           |
| Bore/Stroke         | 122/150 mm                                                                                   |
| Displacement        | 10,5 l                                                                                       |
| Engine operation    | 4-stroke diesel<br>unit pump system<br>turbo-charged and after-cooled<br>reduced emissions   |
| Cooling             | water-cooled and integrated motor oil cooler                                                 |
| Air cleaner         | dry-type air cleaner with pre-cleaner, primary and safety elements, automatic dust discharge |
| Fuel tank           | 660 l                                                                                        |
| Standard            | sensor controlled engine idling                                                              |
| Electrical system   |                                                                                              |
| Voltage             | 24 V                                                                                         |
| Batteries           | 2 x 170 Ah/12 V                                                                              |
| Starter             | 24 V/6,6 kW                                                                                  |
| Alternator          | three phase current 28 V/80 A                                                                |



## Hydraulic System

|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydraulic pump for attachment and travel drive | two Liebherr variable flow, swash plate pumps                                                                                                         |
| Max. flow                                      | 2 x 303 l/min.                                                                                                                                        |
| Max. pressure                                  | 350 bar                                                                                                                                               |
| Pump regulation                                | electro-hydraulic with electronic engine speed sensing regulation, pressure compensation, flow compensation, automatic oil flow optimizer             |
| Hydraulic pump for swing drive                 | reversible, variable flow, swash plate pump, closed-loop circuit                                                                                      |
| Max. flow                                      | 205 l/min.                                                                                                                                            |
| Max. pressure                                  | 380 bar                                                                                                                                               |
| Hydraulic tank                                 | 460 l                                                                                                                                                 |
| Hydraulic system                               | 740 l                                                                                                                                                 |
| Hydraulic oil filter                           | 2 full flow filters in return line with integrated fine filter area (5 µm)                                                                            |
| Hydraulic oil cooler                           | compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan |
| MODE selection                                 | adjustment of machine performance and the hydraulics via a mode selector to match application                                                         |
| ECO                                            | for especially economical and environmentally friendly operation                                                                                      |
| POWER                                          | for maximum digging power and heavy duty jobs                                                                                                         |
| LIFT                                           | for lifting                                                                                                                                           |
| FINE                                           | for precision work and lifting through very sensitive movements                                                                                       |
| RPM adjustment                                 | stepless adjustment of engine output via the rpm at each selected mode                                                                                |
| Tool Control (Option)                          | ten preadjustable pump flows and pressures for add on tools                                                                                           |



## Hydraulic Controls

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Power distribution   | via control valves in single block with integrated safety valves |
| Flow summation       | to boom and stick                                                |
| Closed-loop circuit  | for uppercarriage swing drive                                    |
| Servo circuit        |                                                                  |
| Attachment and swing | proportional via joystick levers                                 |
| Travel               | proportional via foot pedal                                      |
| Additional functions | via foot pedals or joystick push buttons                         |



## Swing Drive

|               |                                                                                        |
|---------------|----------------------------------------------------------------------------------------|
| Drive by      | Liebherr swash plate motor with integrated brake valves                                |
| Transmission  | Liebherr compact planetary reduction gear                                              |
| Swing ring    | Liebherr, sealed single race ball bearing swing ring, internal teeth                   |
| Swing speed   | 0-8,0 RPM stepless                                                                     |
| Swing torque  | 125 kNm                                                                                |
| Holding brake | wet multi-disc (spring applied, pressure released), pedal controlled positioning brake |



## Operator's Cab

|                  |                                                                                                                                                                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cab              | resiliently mounted, sound insulated, tinted windows, front window stores overhead, door with sliding window                                                                                                                                               |
| Operator's seat  | fully adjustable, shockabsorbing suspension, adjustable to operator's weight and size, 6-way adjustable Liebherr seat integrated into adjustable consoles                                                                                                  |
| Joysticks        | menu driven query of current operating conditions via the LCD display. Automatic monitoring, display, warning (acoustical and optical signal) and saving machine data, for example, engine overheating, low engine oil pressure or low hydraulic oil level |
| Monitoring       | standard air conditioning, combined cooler/heater, additional dust filter in fresh air/recirculated                                                                                                                                                        |
| Air conditioning |                                                                                                                                                                                                                                                            |
| Noise emission   |                                                                                                                                                                                                                                                            |
| ISO 6396         | L <sub>PA</sub> (inside cab) = 75 dB(A)                                                                                                                                                                                                                    |
| 2000/14/EC       | L <sub>WA</sub> (surround noise) = 105 dB(A)                                                                                                                                                                                                               |



## Undercarriage

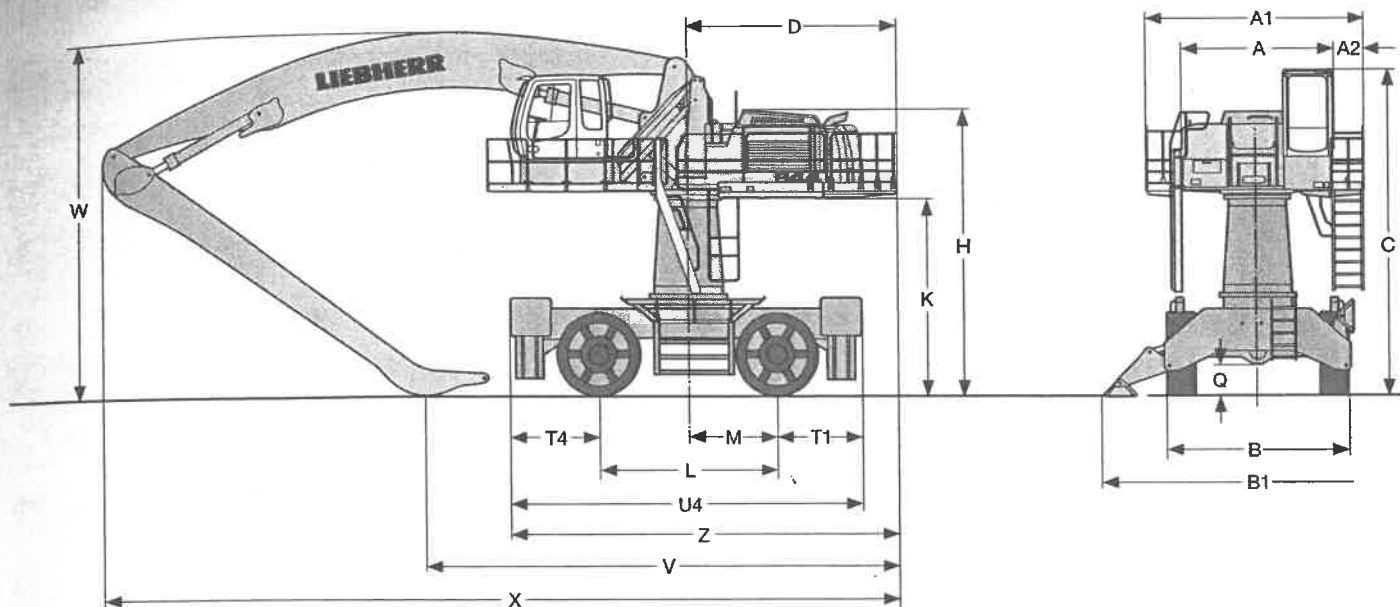
|               |                                                                                          |
|---------------|------------------------------------------------------------------------------------------|
| Drive         | axial piston motor with brake valves                                                     |
| Travel speed  | 0-10,0 km/h                                                                              |
| Axles         | 90 t excavator axles; oscillating steering axle with hydraulic lock (in any position)    |
| Brakes        | wet, maintenance-free multi disc brakes, hydraulically actuated travel and parking brake |
| Stabilization | 4-point outriggers with suspended rocker arm supports                                    |



## Attachment

|                     |                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                | High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of attachment and cylinders. Unrivalled strength, even at high loads |
| Hydraulic cylinders | Liebherr cylinders with special seal system<br>Shock absorption                                                                                                                       |
| Pivots              | sealed, low maintenance                                                                                                                                                               |
| Lubrication         | Liebherr semi-automatic central lubrication system                                                                                                                                    |

# Dimensions



|    | mm   |
|----|------|
| A  | 3060 |
| A1 | 4440 |
| A2 | 660  |
| B  | 3800 |
| C  | 6380 |
| D  | 4255 |
| E  | 4585 |
| H  | 5645 |
| K  | 3980 |
| L  | 3600 |
| M  | 1800 |
| T1 | 1700 |
| T4 | 1775 |
| U4 | 7075 |
| Z  | 7790 |

E = Tail radius

**Tires Ø 1660 mm, width 600 mm**

| <b>Industrial-Type Gooseneck Boom 9,50 m and Industrial Stick</b> |    |       |       |
|-------------------------------------------------------------------|----|-------|-------|
|                                                                   | m  | 8,80  | 9,50  |
| V                                                                 | mm | -     | -     |
| W                                                                 | mm | 7500  | 7800  |
| X                                                                 | mm | 14200 | 14300 |

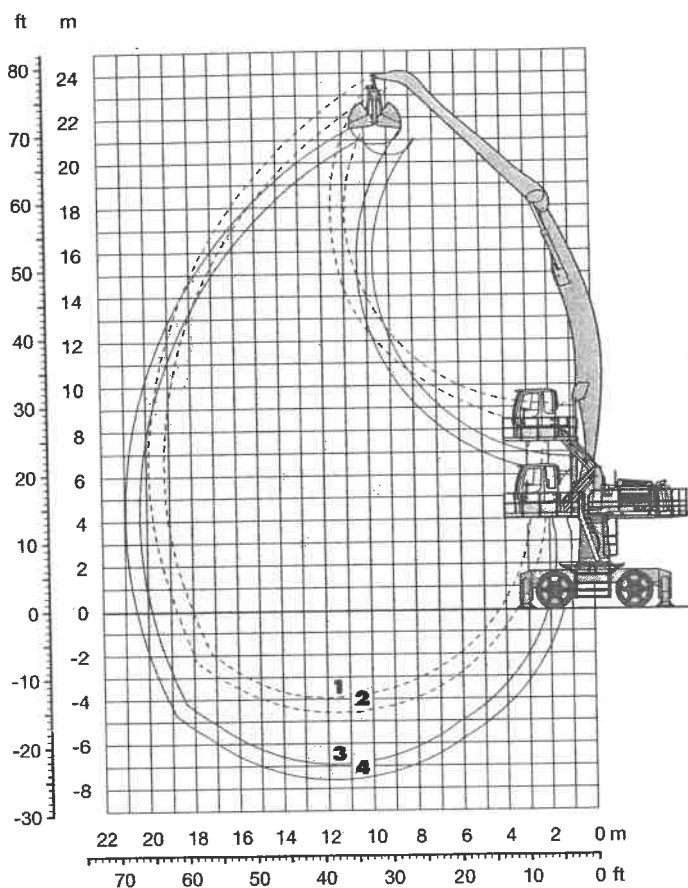
| <b>Industrial-Type Straight Boom 10,50 m and Industrial Stick</b> |    |       |       |
|-------------------------------------------------------------------|----|-------|-------|
|                                                                   | m  | 8,80  | 9,50  |
| V                                                                 | mm | 8900  | -     |
| W                                                                 | mm | 5900  | 5900  |
| X                                                                 | mm | 15350 | 15300 |

| <b>Industrial-Type Gooseneck Boom 11,50 m and Industrial Stick</b> |    |       |       |
|--------------------------------------------------------------------|----|-------|-------|
|                                                                    | m  | 8,80  | 9,50  |
| V                                                                  | mm | 9600  | 8780  |
| W                                                                  | mm | 7400  | 7400  |
| X                                                                  | mm | 16250 | 16200 |

Dimensions are with attachment over steering axle

# Industrial Attachment

## with Industrial-Type Gooseneck Boom 11,50 m



### Attachment Envelope

Industrial-type gooseneck boom pinned in rear bearing of boom foot bracket

- 1 with industrial stick 8,80 m
- 2 with industrial stick 9,50 m
- 3 with industrial stick 8,80 m and clamshell model 20 B
- 4 with industrial stick 9,50 m and clamshell model 20 B

### Operating Weight

Operating weight includes basic machine and industrial attachment with:

|                                          | Weight   |
|------------------------------------------|----------|
| Industrial-type gooseneck boom 11,50 m   |          |
| Industrial stick 8,80 m                  |          |
| Clamshell model 20 B/1,30 m <sup>3</sup> |          |
| Shells for loose material                |          |
| Turret 2,00 m                            |          |
| Adapter 1,00 m                           |          |
| Yellow Cab                               | 62850 kg |
| Industrial-type gooseneck boom 11,50 m   |          |
| Industrial stick 9,50 m                  |          |
| Clamshell model 20 B/1,30 m <sup>3</sup> |          |
| Shells for loose material                |          |
| Turret 2,00 m                            |          |
| Adapter 1,00 m                           |          |
| Yellow Cab                               | 63350 kg |

# Lift Capacities

## with Industrial-Type Gooseneck Boom 11,50 m

### Industrial Stick 8,80 m

| Height | Undercarriage                               | 3,0 m        | 4,5 m        | 6,0 m          | 7,5 m          | 9,0 m          | 10,5 m         | 12,0 m         | 13,5 m       | 15,0 m       | 16,5 m       | 18,0 m       | 19,5 m       | Max. reach            |
|--------|---------------------------------------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|-----------------------|
| 22,5   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                | 6,8*           | 6,8*           |              |              |              |              |              | 6,4*<br>6,4*<br>9,80  |
| 21,0   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                | 6,8*           | 6,8*           |              |              |              |              |              | 5,8*<br>5,8*<br>11,99 |
| 19,5   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                |                | 6,2*<br>6,2*   | 5,8*<br>5,7* |              |              |              |              | 5,2*<br>5,5*<br>13,67 |
| 18,0   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                |                | 6,1*<br>6,1*   | 5,4*<br>5,3* | 4,2*<br>5,3* |              |              |              | 4,2*<br>5,3*<br>15,00 |
| 16,5   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                |                | 6,1*<br>6,1*   | 5,6*<br>5,8* | 4,8*<br>5,5* |              |              |              | 3,6*<br>4,7*<br>16,09 |
| 15,0   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                |                | 6,6*<br>6,6*   | 6,2*<br>6,2* | 5,4*<br>5,8* | 4,3*<br>5,5* | 3,4*<br>4,5* |              | 3,1*<br>4,2*<br>16,97 |
| 13,5   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                |                | 6,8*<br>6,8*   | 6,3*<br>6,3* | 5,2*<br>5,8* | 4,2*<br>5,4* | 3,3*<br>4,4* |              | 2,8*<br>3,8*<br>17,68 |
| 12,0   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                | 7,9*<br>7,9*   | 7,2*<br>7,2*   | 6,6*<br>6,6*   | 6,1*<br>6,1* | 5,0*<br>5,7* | 4,1*<br>5,7* | 3,3*<br>5,1* | 2,6*<br>3,6* | 2,5*<br>3,4*<br>18,23 |
| 10,5   | Stabilisers raised<br>4 pt. outriggers down |              |              |                | 9,7*<br>9,7*   | 9,7*<br>9,7*   | 8,5*<br>8,5*   | 7,6*<br>7,6*   | 6,8*<br>6,8* | 5,9*<br>6,1* | 4,8*<br>5,9* | 3,9*<br>5,5* | 3,1*<br>4,2* | 2,3*<br>3,2*<br>18,86 |
| 9,0    | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                | 9,0*<br>9,0*   | 8,0*<br>8,0*   | 7,2*<br>7,2* | 6,5*<br>6,5* | 5,6*<br>6,2* | 4,7*<br>5,7* | 3,8*<br>4,9* | 2,1*<br>3,0*<br>19,10 |
| 7,5    | Stabilisers raised<br>4 pt. outriggers down | 3,0*<br>3,0* | 3,0*<br>3,0* | 17,2*<br>17,2* | 17,2*<br>17,2* | 13,2*<br>13,2* | 10,8*<br>10,8* | 9,0*<br>9,0*   | 8,5*<br>8,5* | 7,5*<br>7,5* | 6,8*<br>6,8* | 5,8*<br>6,2* | 4,9*<br>5,7* | 1,9*<br>2,8*<br>19,15 |
| 6,0    | Stabilisers raised<br>4 pt. outriggers down | 0,4*<br>0,4* | 0,4*<br>0,4* | 5,9*<br>5,9*   | 5,9*<br>5,9*   | 12,2*<br>12,2* | 10,6*<br>10,6* | 9,0*<br>9,0*   | 8,5*<br>8,5* | 7,5*<br>7,5* | 6,8*<br>6,8* | 5,8*<br>6,2* | 4,9*<br>5,7* | 1,8*<br>2,7*<br>19,06 |
| 4,5    | Stabilisers raised<br>4 pt. outriggers down | 1,4*<br>1,4* | 1,4*<br>1,4* | 4,4*<br>4,4*   | 4,4*<br>4,4*   | 10,2*<br>10,2* | 8,8*<br>8,8*   | 7,2*<br>7,2*   | 6,5*<br>6,5* | 5,6*<br>6,2* | 4,7*<br>5,7* | 3,8*<br>4,9* | 2,9*<br>3,9* | 1,8*<br>2,7*<br>18,88 |
| 3,0    | Stabilisers raised<br>4 pt. outriggers down | 2,6*<br>2,6* | 2,6*<br>2,6* | 4,7*<br>4,7*   | 4,7*<br>4,7*   | 8,4*<br>8,4*   | 7,3*<br>7,3*   | 5,8*<br>5,8*   | 4,8*<br>5,8* | 3,8*<br>4,8* | 2,8*<br>3,8* | 1,9*<br>2,9* | 1,0*<br>2,0* | 1,8*<br>2,7*<br>18,26 |
| 1,5    | Stabilisers raised<br>4 pt. outriggers down | 5,3*<br>5,3* | 5,3*<br>5,3* | 8,2*<br>8,2*   | 8,2*<br>8,2*   | 13,7*<br>13,7* | 11,9*<br>11,9* | 10,0*<br>10,0* | 8,6*<br>8,6* | 7,5*<br>7,5* | 6,7*<br>6,7* | 5,8*<br>6,7* | 4,9*<br>5,8* | 1,9*<br>2,8*<br>18,11 |
| 0      | Stabilisers raised<br>4 pt. outriggers down | 6,2*<br>6,2* | 6,2*<br>6,2* | 8,6*<br>8,6*   | 8,6*<br>8,6*   | 12,9*<br>12,9* | 11,9*<br>11,9* | 10,0*<br>10,0* | 8,6*<br>8,6* | 7,6*<br>7,6* | 6,7*<br>6,7* | 5,9*<br>6,7* | 5,0*<br>5,9* | 2,0*<br>2,9*<br>17,52 |
| -1,5   | Stabilisers raised<br>4 pt. outriggers down | 8,7*<br>8,7* | 9,1*<br>9,1* | 9,1*<br>9,1*   | 12,9*<br>12,9* | 11,7*<br>11,7* | 10,0*<br>10,0* | 8,6*<br>8,6*   | 7,6*<br>7,6* | 6,7*<br>6,7* | 5,9*<br>6,7* | 5,0*<br>5,9* | 4,1*<br>5,0* | 2,2*<br>3,1*<br>16,09 |
| -3,0   | Stabilisers raised<br>4 pt. outriggers down |              |              |                | 13,4*<br>13,4* | 11,2*<br>11,2* | 9,6*<br>9,6*   | 8,3*<br>8,3*   | 7,2*<br>7,2* | 6,3*<br>6,3* |              |              |              | 5,6*<br>5,6*          |
| -4,5   | Stabilisers raised<br>4 pt. outriggers down |              |              |                |                |                |                |                |              |              |              |              |              |                       |

### Industrial Stick 9,50 m

|                                                                                     |                                                              | 3,0 m                                                                               |                                                                                     | 4,5 m                                                                               |                                                                                     | 6,0 m                                                                               |                                                                                     | 7,5 m                                                                               |                                                                                     | 9,0 m                                                                               |                                                                                     | 10,5 m                                                                              |                                                                                     | 12,0 m                                                                              |                                                                                     | 13,5 m                                                                              |                                                                                     | 15,0 m                                                                              |                                                                                      | 16,5 m                                                                               |                                                                                       | 18,0 m                                                                                |                                                                                       | 19,5 m                                                                                |                                                                                       |  |                                                                                       | m                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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| 22,5                                                                                | Undercarriage<br>Stabilizers raised<br>4 pt. outriggers down |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 6,3*<br>6,3*                                                                        | 6,3*<br>6,3*                                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                         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Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capac

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilisers raised and over the rigid axle with the stabilisers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. In accordance with the harmonised EU Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe rupture protection devices on the hoist cylinders and an overload warning device.