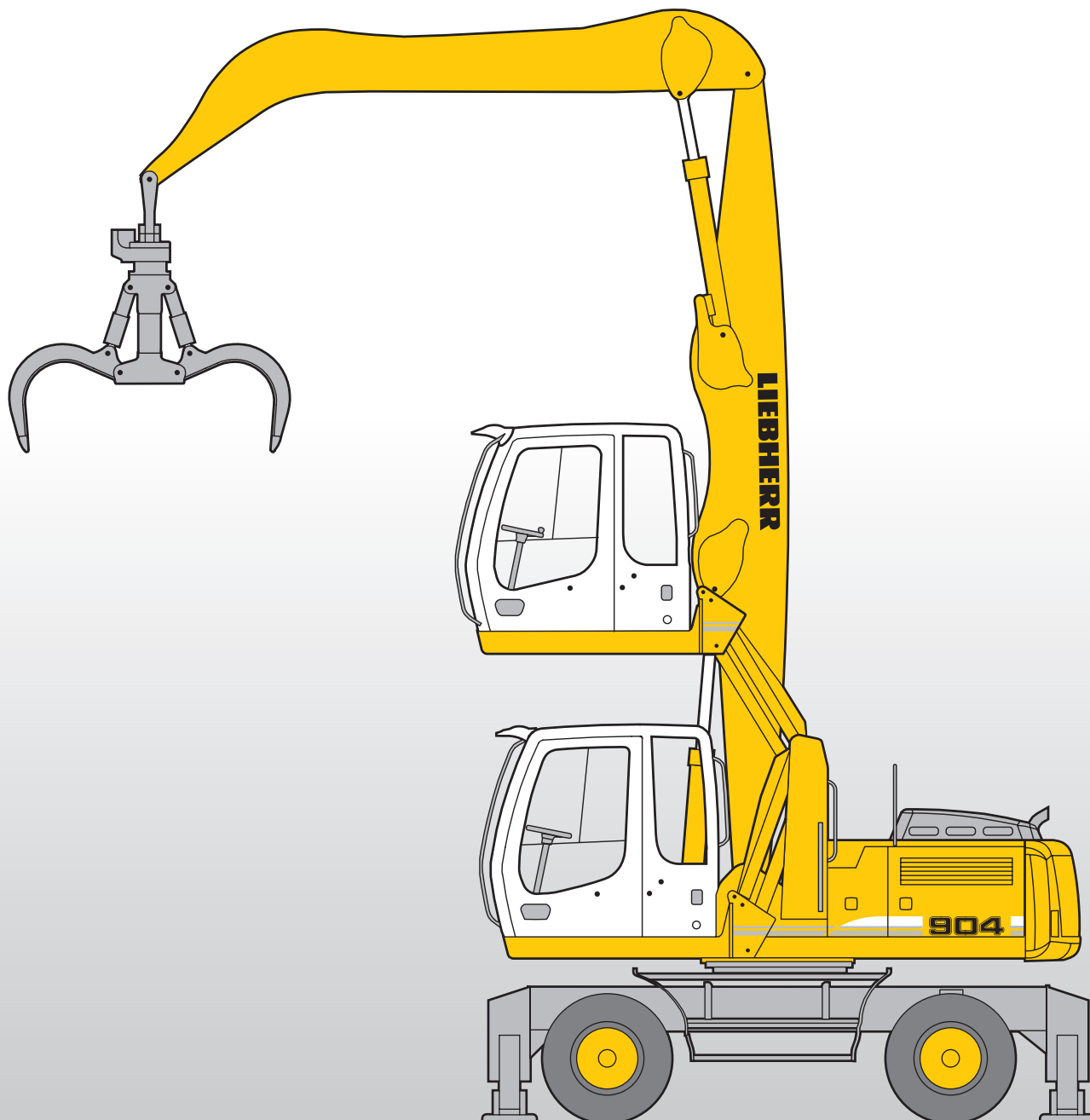


# Machine for Industrial Applications **A 904 C HD**

Litronic®

Operating Weight: 24,400 – 25,500 kg  
Engine Output: 105 kW / 143 HP



# LIEBHERR

# Technical Data



## Engine

Rating per ISO 9249	105 kW (143 HP) at 1,800 RPM
Model	Liebherr D 934 S according to level IIIA/Tier 3
Type	4 cylinder in-line
Bore/Stroke	122/136 mm
Displacement	6.4 l
Engine operation	4-stroke diesel unit pump system turbo-charged and after-cooled reduced emissions
Cooling system	water-cooled and integrated motor oil cooler
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	350 l
Engine idling	sensor controlled
Electrical system	
Voltage	24 V
Batteries	2 x 110 Ah/12 V
Alternator	three phase current 28 V/80 A
Option	Liebherr particle filter



## Hydraulic System

Hydraulic pump	Liebherr, variable displacement, swash-plate double pump
Max. flow	2 x 189 l/min.
Max. hydr. pressure	350 bar
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, load sensing and torque controlled swing drive priority
Hydraulic tank capacity	175 l
Hydraulic system capacity	max. 320 l
Filtration	one main return filter with integrated partial micro filtration (5 µm)
Cooling system	compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
Modes	can also be adjusted by the operator to adjust engine and hydraulic performance to match job conditions (Note: All modes provide full max. power)
LIFT	for precise lifting tasks
FINE	for precision work at high speed i.e. grading
ECO	for most economic performance at best environmental conditions
POWER	for max. output
Super-Finish	additional operator adjustable work speed function for further increased feathering. Applies to all modes and all control functions
RPM adjustment	stepless adjustment of engine output via rpm
Tool Control (Option)	ten preadjustable pump flows and pressures for add on tools



## Hydraulic Controls

Power distribution	via control valve with integrated safety valves, simultaneous and independent operation of travel drive, swing drive and work
Control type	
Attachment and swing	proportional via joystick levers
Travel	proportional via foot pedal
Additional functions	via switch and/or proportional foot pedals



## Swing Drive

Drive	Liebherr swashplate motor with torque control and integrated brake valve
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr sealed single race ball bearing swing ring, internal teeth
Swing speed	0 – 9.0 RPM
Swing torque	46 kNm
Holding brake	wet discs (spring applied – pressure released)
Option	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
Joysticks	integrated into adjustable seat consoles
Monitoring	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
Air conditioning	standard air conditioning, combined cooler/heater, additional dust filter in fresh air/recirculated
Noise emission	
ISO 6396	$L_{pA}$ (inside cab) = 73 dB(A)
2000/14/EC	$L_{WA}$ (surround noise) = 100 dB(A)
Sound level in correspondence with "Blue Angel" guidelines.	



## Undercarriage

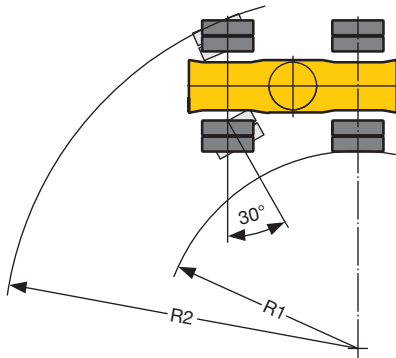
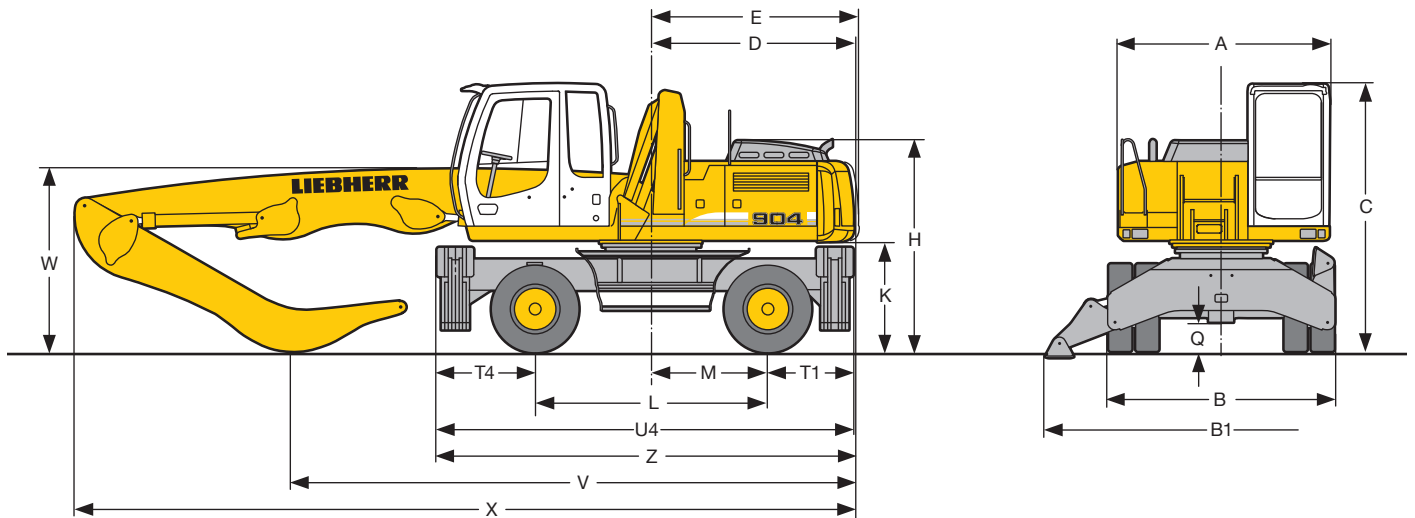
Drive	variable flow swashplate motor with automatic brake valve
Transmission	oversized two speed power shift transmission with additional creeper speed
Travel speed	0 – 2.5 km/h (creeper speed off road) 0 – 5.0 km/h (off road) 0 – 9.0 km/h (creeper speed on road) 0 – 20.0 km/h (road travel)
Axles	40 t excavator axles; automatic or operator controlled front axle oscillation lock
Brakes	steering and rigid axle with wet, maintenance-free multi disc brakes with minimized backlash. Spring applied/pressure released parking brake integrated into gear box
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. Unrivaled strength, even at high loads
Hydraulic cylinders	Liebherr cylinders with special seal system. Shock absorption
Pivots	sealed, low maintenance
Lubrication	Liebherr semi-automatic central lubrication system

# Dimensions



	mm
A	2,610
B	2,750
B1	4,250
C	3,235
D	2,470
E	2,515
H	2,540
K	1,310
L	2,800
M	1,400
Q	355
R1	4,360
R2	7,670
T1	1,040
T4	1,190
U4	5,030
Z	5,050

E = Tail radius

**Tires 10.00-20**

<b>Industrial-Type Straight Boom 6.60 m and Industrial Stick</b>			
	m	4.00	5.00
V	mm	6,800	6,050
W	mm	2,300	2,850
X	mm	9,600	9,600

<b>Industrial-Type Straight Boom 7.10 m and Industrial Stick</b>			
	m	4.00	5.00
V	mm	7,300	6,450*
W	mm	2,300	2,400*
X	mm	10,100	10,200*

<b>Industrial-Type Gooseneck Boom 6.00 m and Industrial Stick</b>			
	m	4.00	5.00
V	mm	6,100	5,600*
W	mm	2,700	3,250*
X	mm	8,950	9,100*

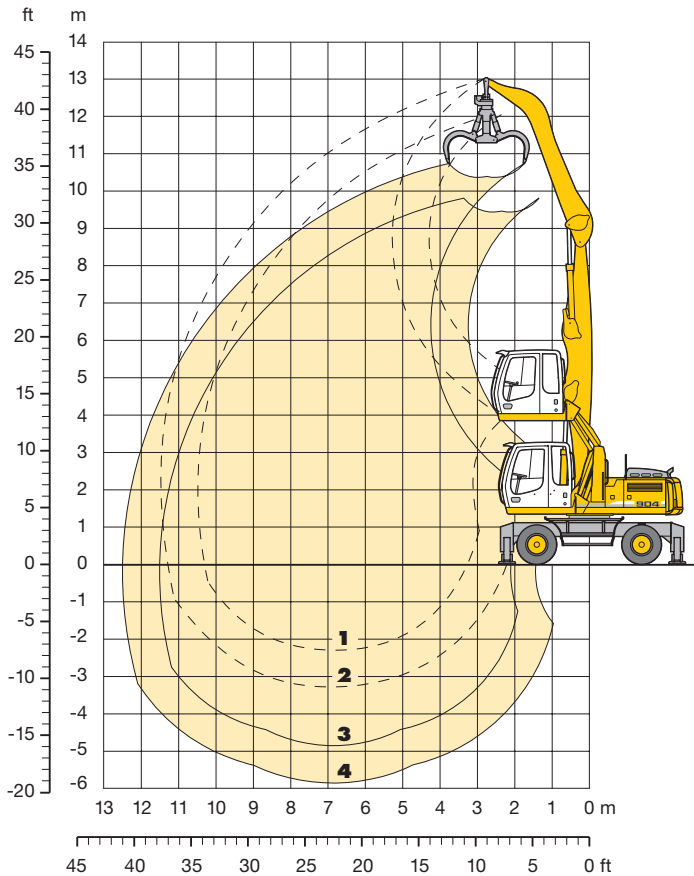
<b>Industrial-Type Straight Boom 6.60 m and Industrial Stick with Tipping Kinematics</b>			
	m	4.50	
V	mm	5,415	
W	mm	2,400	
X	mm	9,600	

Dimensions are with attachment over steering axle

\* Attachment over digging axle for shorter transport dimensions

# Industrial Attachment

## for Scrap Handling with Straight Boom 6.60 m



### Attachment Envelope

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

- 1 with industrial stick 4.00 m
- 2 with industrial stick 5.00 m
- 3 with industrial stick 4.00 m and grapple model 65
- 4 with industrial stick 5.00 m and grapple model 65

### Operating Weight

The operating weight includes basic machine A 904 C HD Litronic<sup>®</sup> with 4 pt. outriggers, hydr. cab elevation, 8 solid tires plus spacer rings and industrial attachment with industrial-type straight boom 6.60 m.

with grapple model 65/0.60 m <sup>3</sup> semi-closed tines and industrial stick 4.00 m and industrial stick 5.00 m	Weight
and industrial stick 4.00 m	24,800 kg
and industrial stick 5.00 m	25,000 kg

# Lift Capacities

for Scrap Handling with Straight Boom 6.60 m

## Industrial Stick 4.00 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		m		
13.5	Stabilizers raised 4 pt. outriggers down																	
12.0	Stabilizers raised 4 pt. outriggers down															8.9*	8.9*	2.54
10.5	Stabilizers raised 4 pt. outriggers down			7.0	8.4*	4.3	5.7*									4.3	5.7*	6.01
9.0	Stabilizers raised 4 pt. outriggers down			7.2	9.0*	4.5	6.0	3.0	4.1							2.8	3.8	7.77
7.5	Stabilizers raised 4 pt. outriggers down			7.1	9.1*	4.4	6.0	3.0	4.1							2.2	3.0	8.93
6.0	Stabilizers raised 4 pt. outriggers down			6.8	9.3	4.3	5.8	3.0	4.0	2.2	3.0					1.9	2.6	9.72
4.5	Stabilizers raised 4 pt. outriggers down	11.7	15.8*	6.2	8.6	4.0	5.5	2.8	3.9	2.1	2.9					4.1	4.5*	10.22
3.0	Stabilizers raised 4 pt. outriggers down	1.9*	1.9*	5.4	7.8	3.6	5.1	2.6	3.7	2.0	2.8					1.7	2.3	10.48
1.5	Stabilizers raised 4 pt. outriggers down			4.8	7.2	3.3	4.8	2.5	3.5	1.9	2.7	1.5	2.2			3.5	4.2*	10.52
0	Stabilizers raised 4 pt. outriggers down			4.6	6.9	3.1	4.6	2.4	3.4	1.8	2.6	3.5	3.8*			3.5	3.8*	10.34
-1.5	Stabilizers raised 4 pt. outriggers down			4.5	6.8	3.1	4.5	2.3	3.3	1.8	2.6					3.3*	3.3*	9.26
-3.0	Stabilizers raised 4 pt. outriggers down			7.8*	7.8*	6.4*	6.4*	5.1*	5.1*	3.7*	3.7*					1.8	2.5	9.26

## Industrial Stick 5.00 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		m		
13.5	Stabilizers raised 4 pt. outriggers down																	
12.0	Stabilizers raised 4 pt. outriggers down			6.7*	6.7*											5.1	5.3*	5.42
10.5	Stabilizers raised 4 pt. outriggers down					4.6	6.2	3.1	4.1							3.0	4.0	7.64
9.0	Stabilizers raised 4 pt. outriggers down					4.7	6.3	3.2	4.3	2.2	3.1					4.2*	4.2*	9.08
7.5	Stabilizers raised 4 pt. outriggers down					4.7	6.2	3.2	4.3	2.3	3.1					2.2	3.0	10.09
6.0	Stabilizers raised 4 pt. outriggers down					4.5	6.0	3.1	4.2	2.2	3.1	1.6	2.3			3.8*	3.8*	10.79
4.5	Stabilizers raised 4 pt. outriggers down			6.6	9.2	4.2	5.7	2.9	4.0	2.1	3.0	3.6	4.4*			1.5	2.2	10.79
3.0	Stabilizers raised 4 pt. outriggers down	10.8	16.6	5.8	8.3	3.8	5.3	2.7	3.8	2.0	2.8	1.5	2.2			3.2	3.5*	11.24
1.5	Stabilizers raised 4 pt. outriggers down	2.7*	2.7*	5.1	7.4	3.4	4.9	2.5	3.5	1.9	2.7	1.5	2.1			3.1	3.5*	11.48
0	Stabilizers raised 4 pt. outriggers down	2.7*	2.7*	4.6	6.9	3.1	4.6	2.3	3.4	1.8	2.6	1.4	2.1			3.5	4.5*	11.52
-1.5	Stabilizers raised 4 pt. outriggers down			4.4	6.6	3.0	4.4	2.2	3.3	1.7	2.5	1.4	2.1			3.0*	3.0*	11.35
-3.0	Stabilizers raised 4 pt. outriggers down			8.2*	8.2*	7.2*	7.2*	5.4	5.7*	4.2	4.4*	3.1*	3.1*			1.4	2.0	10.70

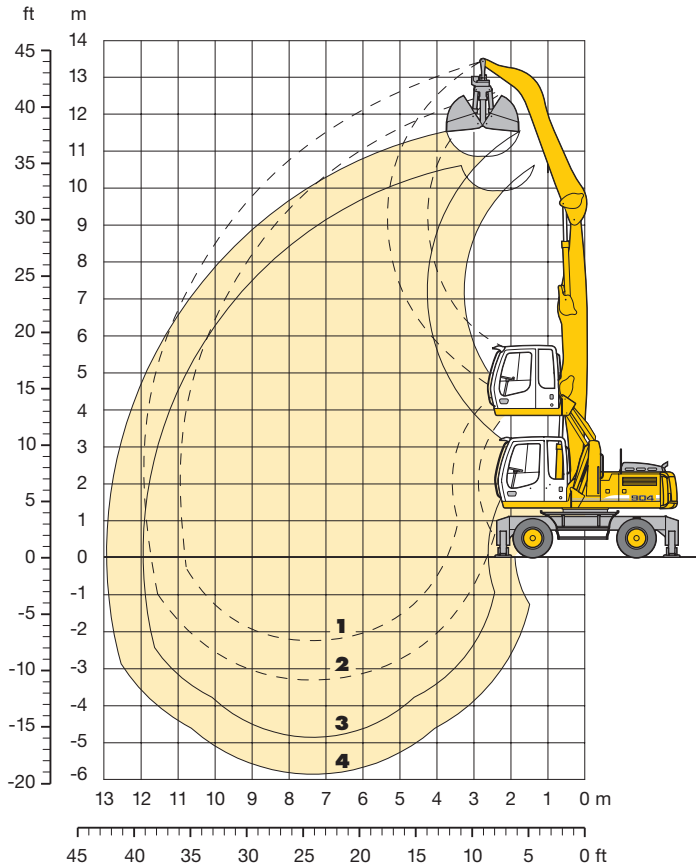
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

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.

# Industrial Attachment

for Loose Material with Straight Boom 7.10 m



## Attachment Envelope

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

- 1** with industrial stick 4.00 m
- 2** with industrial stick 5.00 m
- 3** with industrial stick 4.00 m and clamshell model 10 B
- 4** with industrial stick 5.00 m and clamshell model 10 B

## Operating Weight

The operating weight includes basic machine A 904 C HD Litronic<sup>®</sup> with 4 pt. outriggers, hydr. cab elevation, 8 solid tires plus spacer rings and industrial attachment with industrial-type straight boom 7.10 m.

with clamshell model 10 B/1.00 m <sup>3</sup> shells for loose material and industrial stick 4.00 m	Weight
and industrial stick 4.00 m	24,400 kg
and industrial stick 5.00 m	24,600 kg

# Lift Capacities

for Loose Material with Straight Boom 7.10 m

## Industrial Stick 4.00 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		m			
13.5	Stabilizers raised 4 pt. outriggers down																		
12.0	Stabilizers raised 4 pt. outriggers down	9.0*	9.0*														7.1*	7.1*	4.20
10.5	Stabilizers raised 4 pt. outriggers down			7.1	8.8*	4.4	5.9										3.4	4.7	6.85
9.0	Stabilizers raised 4 pt. outriggers down			8.8*	8.8*	7.2*	7.2*										5.4*	5.4*	8.42
7.5	Stabilizers raised 4 pt. outriggers down			7.2	9.0*	4.5	6.0	3.0	4.1								2.4	3.3	9.50
6.0	Stabilizers raised 4 pt. outriggers down			9.0*	9.0*	7.3*	7.3*	6.3*	6.3*								4.8*	4.8*	10.25
4.5	Stabilizers raised 4 pt. outriggers down	11.0*	11.0*	7.0	9.2*	4.4	5.9	3.0	4.1	2.2	3.0						1.9	2.7	10.73
3.0	Stabilizers raised 4 pt. outriggers down	11.0*	11.0*	9.2*	9.2*	7.4*	7.4*	6.3*	6.3*	4.7	5.4*						4.2	4.6*	10.98
1.5	Stabilizers raised 4 pt. outriggers down	11.0*	11.0*	6.6	9.1	4.2	5.7	2.9	4.0	2.1	2.9						1.6	2.3	11.01
0	Stabilizers raised 4 pt. outriggers down	11.0*	11.0*	9.8*	9.8*	7.7*	7.7*	6.2	6.4*	4.6	5.4*						3.7	4.5*	11.84
-1.5	Stabilizers raised 4 pt. outriggers down	10.8	16.6	5.9	8.3	3.8	5.3	2.7	3.8	2.0	2.8	1.5	2.2				1.5	2.1	9.79
-3.0	Stabilizers raised 4 pt. outriggers down	16.6*	16.6*	10.8*	10.8*	8.1*	8.1*	6.0	6.5*	4.5	5.4*	3.5	4.4*				3.4	4.3*	
	Stabilizers raised 4 pt. outriggers down			5.1	7.4	3.5	4.9	2.5	3.6	1.9	2.7	1.5	2.1				1.4	2.0	
	Stabilizers raised 4 pt. outriggers down			11.4*	11.4*	8.1	8.4*	5.8	6.6*	4.4	5.3*	3.5	4.3*				3.2	3.9*	
	Stabilizers raised 4 pt. outriggers down			4.5	5.4*	3.1	4.6	2.3	3.4	1.8	2.6	1.4	2.1				1.3	2.0	
	Stabilizers raised 4 pt. outriggers down			5.4*	5.4*	7.7	8.2*	5.5	6.4*	4.3	5.1*	3.4	4.0*				3.2	3.5*	
	Stabilizers raised 4 pt. outriggers down			4.3	5.2*	3.0	4.4	2.2	3.2	1.7	2.5	1.4	2.1				1.3	2.0	
	Stabilizers raised 4 pt. outriggers down			5.2*	5.2*	7.4*	7.4*	5.4	5.9*	4.2	4.6*	3.4	3.4*				3.0*	3.0*	
	Stabilizers raised 4 pt. outriggers down					2.9	4.3	2.2	3.2	1.7	2.5	1.4	2.1				1.5	2.3	
	Stabilizers raised 4 pt. outriggers down					6.1*	6.1*	4.9*	4.9*	3.8*	3.8*						3.1*	3.1*	

## Industrial Stick 5.00 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		m			
13.5	Stabilizers raised 4 pt. outriggers down																7.8*	7.8*	2.63
12.0	Stabilizers raised 4 pt. outriggers down			7.1*	7.1*	4.4	5.6*										3.9	4.8*	6.42
10.5	Stabilizers raised 4 pt. outriggers down			7.1*	7.1*	5.6*	5.6*										4.8*	4.8*	8.37
9.0	Stabilizers raised 4 pt. outriggers down					4.7	6.2	3.1	4.2								2.5	3.4	9.70
7.5	Stabilizers raised 4 pt. outriggers down					6.9*	6.9*	5.6*	5.6*								4.1*	4.1*	10.64
6.0	Stabilizers raised 4 pt. outriggers down					4.7	6.3	3.2	4.3	2.3	3.1						1.9	2.6	11.31
4.5	Stabilizers raised 4 pt. outriggers down					6.8*	6.8*	5.9*	5.9*	4.8	5.2*						3.7*	3.7*	11.75
3.0	Stabilizers raised 4 pt. outriggers down					4.6	6.2	3.2	4.3	2.3	3.1	1.6	2.3				1.6	2.2	11.97
1.5	Stabilizers raised 4 pt. outriggers down					6.9*	6.9*	5.9*	5.9*	4.8	5.2*	3.6	4.0*				3.5	3.5*	12.01
0	Stabilizers raised 4 pt. outriggers down			7.1	8.5*	4.4	6.0	3.0	4.1	2.2	3.0	1.6	2.3				1.4	2.0	11.85
-1.5	Stabilizers raised 4 pt. outriggers down	9.3*	9.3*	6.4	8.9	4.1	5.6	2.8	3.9	2.1	2.9	1.6	2.2				3.2	3.5*	11.22
-3.0	Stabilizers raised 4 pt. outriggers down	9.3*	9.3*	9.9*	9.9*	7.7*	7.7*	6.1	6.3*	4.6	5.3*	3.6	4.5*				2.9	3.5*	9.12
	Stabilizers raised 4 pt. outriggers down	4.7*	4.7*	5.5	7.9	3.6	5.1	2.6	3.7	1.9	2.8	1.5	2.1				1.1	1.7	
	Stabilizers raised 4 pt. outriggers down	4.7*	4.7*	11.0*	11.0*	8.1*	8.1*	5.9	6.4*	4.4	5.3*	3.5	4.4*				2.8	3.4*	
	Stabilizers raised 4 pt. outriggers down	1.1*	1.1*	4.7	7.0	3.2	4.7	2.4	3.4	1.8	2.6	1.4	2.1	1.1	1.7		1.1	1.7	
	Stabilizers raised 4 pt. outriggers down	1.1*	1.1*	9.7*	9.7*	7.8	8.2*	5.6	6.4*	4.3	5.2*	3.4	4.2*	2.8	3.1*		2.8	3.1*	
	Stabilizers raised 4 pt. outriggers down	1.8*	1.8*	4.2	6.1*	2.9	4.4	2.2	3.2	1.7	2.5	1.3	2.0				1.1	1.7	
	Stabilizers raised 4 pt. outriggers down	1.8*	1.8*	6.1*	6.1*	7.5	7.8*	5.4	6.1*	4.1	4.9*	3.3	3.9*				2.7*	2.7*	
	Stabilizers raised 4 pt. outriggers down			4.1	6.2*	2.8	4.2	2.1	3.1	1.6	2.4	1.3	2.0				1.2	1.8	
	Stabilizers raised 4 pt. outriggers down			6.2*	6.2*	6.9*	6.9*	5.3	5.5*	4.1	4.3*	3.2*	3.2*				2.6*	2.6*	
	Stabilizers raised 4 pt. outriggers down					2.7	4.2	2.0	3.1	1.6	2.4						1.6	2.4	
	Stabilizers raised 4 pt. outriggers down					5.4*	5.4*	4.4*	4.4*	3.4*	3.4*						3.3*	3.3*	

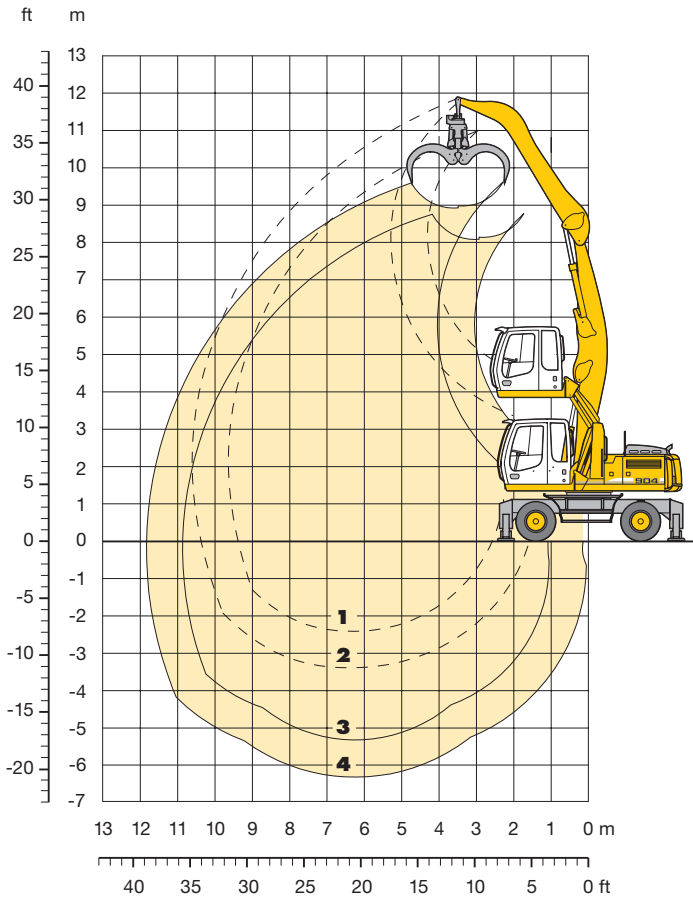
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

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.

# Industrial Attachment

## for Wood Handling with Gooseneck Boom 6.00 m



### Attachment Envelope

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

- 1** with industrial stick 4.00 m
- 2** with industrial stick 5.00 m
- 3** with industrial stick 4.00 m and wood grapple
- 4** with industrial stick 5.00 m and wood grapple

### Operating Weight

The operating weight includes basic machine A 904 C HD Litronic® with 4 pt. outriggers, hydr. cab elevation, 8 solid tires plus spacer rings and industrial attachment with industrial-type gooseneck boom 6.00 m.

	Weight
with wood grapple 1.00 m <sup>2</sup> rotary drive with 2 motors	
with industrial stick 4.00 m	24,400 kg
with industrial stick 5.00 m	24,600 kg



# Lift Capacities

for Wood Handling with Gooseneck Boom 6.00 m

## Industrial Stick 4.00 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		m		
13.5	Stabilizers raised 4 pt. outriggers down																	
12.0	Stabilizers raised 4 pt. outriggers down																	
10.5	Stabilizers raised 4 pt. outriggers down														6.0*	6.0*	4.29	
9.0	Stabilizers raised 4 pt. outriggers down			7.2	8.1*	4.5	6.0								3.9	4.9*	6.55	
7.5	Stabilizers raised 4 pt. outriggers down			7.2	8.0*	4.6	6.1	3.1	4.2						2.9	3.8	7.90	
6.0	Stabilizers raised 4 pt. outriggers down			7.0	8.5*	4.5	6.0	3.1	4.2						2.4	3.2	8.78	
4.5	Stabilizers raised 4 pt. outriggers down	12.6	13.2*	6.6	9.1	4.2	5.7	3.0	4.1	2.2	3.0				2.1	2.9	9.34	
3.0	Stabilizers raised 4 pt. outriggers down	10.8	16.5	6.0	8.4	4.0	5.4	2.9	3.9	2.2	3.0				1.9	2.7	9.63	
1.5	Stabilizers raised 4 pt. outriggers down	4.6*	4.6*	5.4	7.7	3.7	5.1	2.7	3.7	2.1	2.9				1.9	2.6	9.67	
0	Stabilizers raised 4 pt. outriggers down	4.9*	4.9*	5.1	7.4	3.5	4.9	2.6	3.6	2.0	2.8				1.9	2.6	9.47	
-1.5	Stabilizers raised 4 pt. outriggers down			4.9	7.2	3.4	4.8	2.5	3.6						2.0	2.9	8.85	
-3.0	Stabilizers raised 4 pt. outriggers down			10.0*	10.0*	7.7*	7.7*	5.7	5.9*						4.4*	4.4*		

## Industrial Stick 5.00 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		m		
13.5	Stabilizers raised 4 pt. outriggers down																	
12.0	Stabilizers raised 4 pt. outriggers down																	
10.5	Stabilizers raised 4 pt. outriggers down					4.6	4.7*								4.3*	4.3*	6.22	
9.0	Stabilizers raised 4 pt. outriggers down					4.8	6.3*	3.3	4.3						2.9	3.8*	7.93	
7.5	Stabilizers raised 4 pt. outriggers down					4.8	6.2*	3.3	4.4	2.3	3.2				2.3	3.1	9.07	
6.0	Stabilizers raised 4 pt. outriggers down					4.7	6.2	3.2	4.3	2.3	3.2				2.0	2.7	9.85	
4.5	Stabilizers raised 4 pt. outriggers down			7.0	8.3*	4.4	6.0	3.1	4.2	2.3	3.1				1.8	2.4	10.35	
3.0	Stabilizers raised 4 pt. outriggers down	12.0	14.3*	6.4	8.8	4.1	5.6	2.9	4.0	2.2	3.0	1.7	2.3		1.6	2.3	10.61	
1.5	Stabilizers raised 4 pt. outriggers down	9.8*	9.8*	5.6	8.0	3.8	5.2	2.7	3.8	2.1	2.9	1.6	2.3		1.6	2.2	10.64	
0	Stabilizers raised 4 pt. outriggers down	5.6*	5.6*	5.1	7.4	3.5	4.9	2.6	3.6	2.0	2.8				1.6	2.2	10.46	
-1.5	Stabilizers raised 4 pt. outriggers down	5.8*	5.8*	4.8	7.1	3.3	4.7	2.5	3.5	1.9	2.7				1.7	2.4	10.05	
-3.0	Stabilizers raised 4 pt. outriggers down			4.8	7.1	3.2	4.7	2.4	3.4						2.1	3.0	8.34	

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

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.

# Industrial Attachment

for Recycling with Straight Boom 6.60 m

## Attachment Envelope

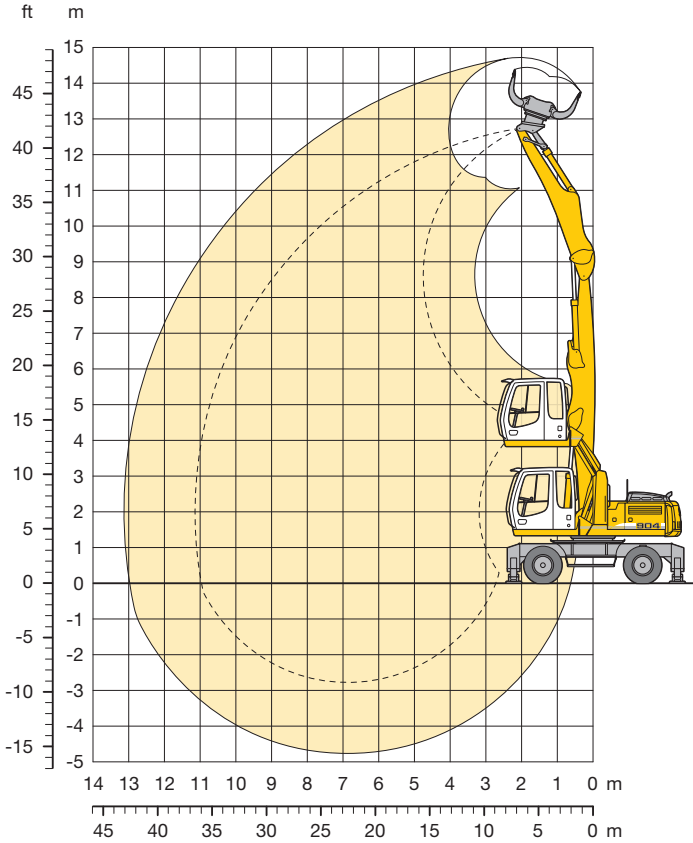
Industrial-type straight boom pinned in rear bearing of boom foot bracket

with industrial stick 4.50 m and Liebherr sorting grapple

## Operating Weight

The operating weight includes basic machine A 904 C HD **Litronic**® with 4 pt. outriggers, hydr. cab elevation, 8 solid tires plus spacer rings and industrial attachment with industrial-type straight boom 6.60 m.

with Liebherr sorting grapple	Weight
with industrial stick with tipping kinematics 4.50 m	25,500 kg



# Lift Capacities

## Industrial Stick 4.50 m

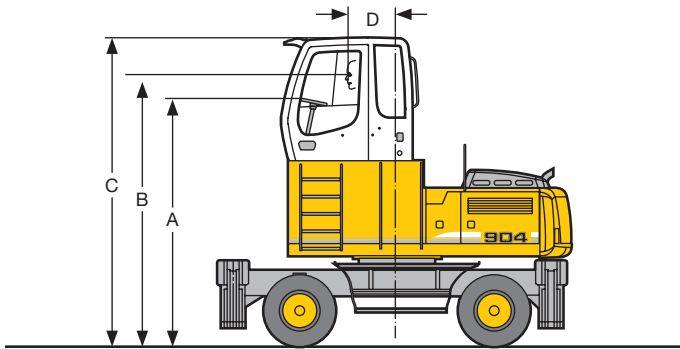
m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		m
		Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	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	Can be slewed through 360°	In longitudinal position of undercarriage	
12.0	Stabilizers raised 4 pt. outriggers down			6.3 6.8*	6.8*									6.0 6.5*	6.5*	4.60
10.5	Stabilizers raised 4 pt. outriggers down			6.9 8.2*	8.2*	4.1 6.9*	5.7 6.9*							2.8 4.8*	4.0 4.8*	7.09
9.0	Stabilizers raised 4 pt. outriggers down					4.3 6.8*	5.8 6.8*	2.7 5.8*	3.8 5.8*					1.9 4.1*	2.8 4.1*	8.63
7.5	Stabilizers raised 4 pt. outriggers down					4.2 6.8*	5.8 6.8*	2.7 5.7*	3.8 5.7*	1.8 4.3	2.6 4.9*			1.5 3.7	2.2 3.8*	9.68
6.0	Stabilizers raised 4 pt. outriggers down			6.7 8.6*	8.6*	4.0 7.0*	5.6 7.0*	2.6 5.8*	3.7 5.8*	1.8 4.3	2.6 4.9*			1.2 3.2	1.9 3.6*	10.41
4.5	Stabilizers raised 4 pt. outriggers down	7.9*	7.9*	6.0 9.7*	8.5 9.7*	3.7 7.4*	5.2 7.4*	2.5 5.8	3.5 6.0*	1.7 4.2	2.5 4.9*	1.2 3.2	1.8 4.0*	1.0 3.0	1.7 3.5*	10.88
3.0	Stabilizers raised 4 pt. outriggers down			5.1 10.6*	7.5 10.6*	3.3 7.8*	4.7 7.8*	2.2 5.5	3.3 6.1*	1.6 4.1	2.4 4.9*	1.1 3.1	1.8 3.9*	0.9 2.8	1.6 3.3*	11.13
1.5	Stabilizers raised 4 pt. outriggers down			4.3 10.8*	6.6 10.8*	2.9 7.5	4.3 7.8*	2.0 5.2	3.1 6.0*	1.4 3.9	2.3 4.7*	1.0 3.0	1.7 3.6*	0.9 2.8	1.5 2.9*	11.17
0	Stabilizers raised 4 pt. outriggers down	1.3*	1.3*	3.9 6.6*	6.2 6.6*	2.6 7.1	4.0 7.3*	1.8 5.0	2.9 5.6*	1.3 3.8	2.2 4.3*	1.0 3.0	1.7 3.0*	0.9 2.4*	1.6 2.4*	10.99
-1.5	Stabilizers raised 4 pt. outriggers down			3.7 7.1*	6.0 7.1*	2.4 6.2*	3.9 6.2*	1.7 4.8*	2.8 4.8*	1.3 3.5*	2.1 3.5*			1.1 2.6*	1.8 2.6*	10.02

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

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.

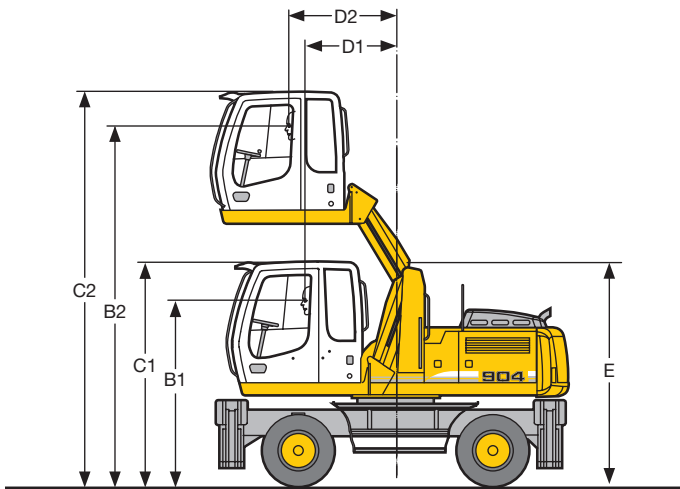
# Choice of Cab Elevations and Cab Protections



## Rigid Cab Elevation

Height	mm	800	1,200	1,500
A	mm	3,195	3,595	3,895
B	mm	3,535	3,935	4,235
C	mm	4,035	4,435	4,735
D	mm	670	670	670

A rigid cab elevation has a fixed eye level height. For a lower transport height the shell of the cab can be removed. The overall height is then dimension A.

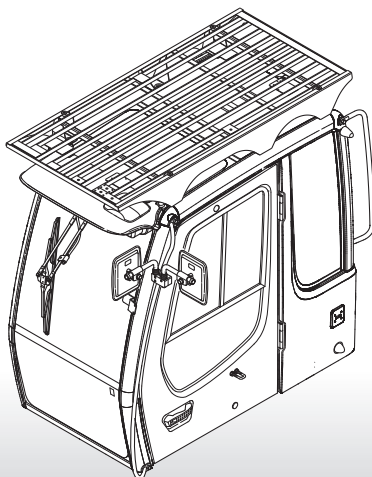


## Hydraulic Cab Elevation (Parallelogram)

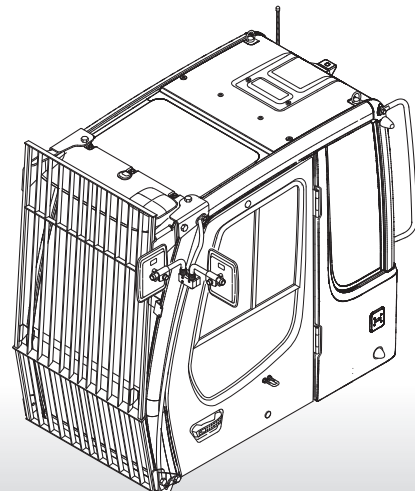
B1	2,735 mm
B2	5,235 mm
C1	3,230 mm
C2	5,730 mm
D1	1,370 mm
D2	1,615 mm
E	3,145 mm

The parallelogram cab raiser allows the operator to choose his field of view between dimensions B1 and B2. For a transport height lower than C1 the shell of the cab can be removed. The overall height is then E.

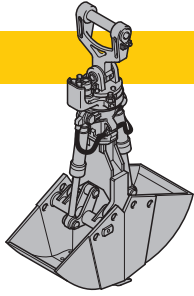
## Grille above



## Grilles in front



# Variety of Tools

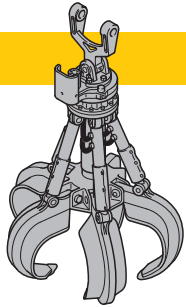


## Shells for Loose Material

### Clamshell Model 10 B

Shells for loose material with cutting edge (without teeth)

Cutting width of shells	mm	1,000	1,500	1,800
Capacity	m <sup>3</sup>	1.00	1.50	1.80
For loose material, specific weight up to	t/m <sup>3</sup>	1.5	1.5	1.5
Total weight	kg	1,355	1,415	1,550



## Multiple Tine Grapples

open tines

semi-closed tines

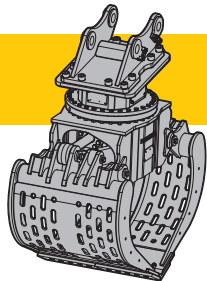
closed tines

<b>Grapple Model 64</b> (4 tines)	Capacity	m <sup>3</sup>	0.40	0.60	0.40	0.60	0.40	0.60
	Weight	kg	845	1,130	1,055	1,330	1,060	1,520
<b>Grapple Model 65</b> (5 tines)	Capacity	m <sup>3</sup>	0.40	0.60	0.40	0.60	0.40	0.60
	Weight	kg	1,150	1,230	1,285	1,415	1,325	1,520



## Wood Grapple

Size	m <sup>2</sup>	1.30	1.50	1.70	1.90
Width	mm	810	810	810	810
Opening width inside	mm	2,640	2,735	2,835	3,125
Opening width outside	mm	2,945	3,045	3,180	3,470
Overall height open	mm	2,325	2,355	2,380	2,460
Overall height closed	mm	2,950	3,005	3,060	3,155
Weight complete	kg	1,675	1,725	1,775	1,910



## Liebherr Sorting Grapple SG 25

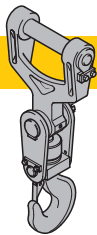
with ribbed shells

with perforated shells

with ribbed shells

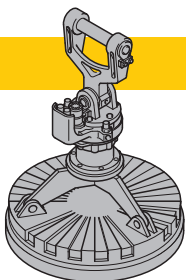
with perforated shells

Cutting width of shells	mm	800	800	1,000	1,000
Capacity	m <sup>3</sup>	0.50	0.55	0.65	0.75
Max. closing force	t	6	6	6	6
Weight incl. adapter plate ca.	kg	1,120	1,110	1,200	1,190



## Crane Hook with Suspension

Max. load	t	12.5
Height with suspension	mm	930
Total weight	kg	96



## Magnet Devices/Lifting Magnets

Generator	kW	13	13
<b>Electromagnets with Suspension</b>			
Power	kW	4.5	6
Diameter of magnet	mm	1,050	1,200
Height with suspension	mm	1,100	1,100
Weight	kg	750	1,190

# Equipment



## Undercarriage

Two circuit travel brake with accumulator	•
Travel motor protection	+
Outrigger cylinder rod guards	+
Creeper speed electrically switchable from cab	•
New tires	•
Service free parking brake	•
Independent outrigger control	+
Choice of tires	+
Auto check valve directly on each stabilizer cylinder	•
Proportional power steering	•
Customized colors	+
Two lockable storage boxes	•
Two-speed power shift transmission	•



## Uppercarriage

Electric fuel tank filler pump	+
Maintenance-free swing brake lock	•
Handrails, Non slip surfaces	•
Main switch for electric circuit	•
Engine hood with lift help	•
Pedal controlled positioning swing brake	+
Reverse travel warning system	+
Sound insulation	•
Customized colors	+
Maintenance-free HD-batteries	•
Extended tool kit	+
Lockable tool box	•
Tool kit	•



## Hydraulics

Hydraulic tank shut-off valve	•
Extra hydr. control for hydr. swivel	•
Pressure compensation	•
Hook up for pressure checks	•
Pressure storage for controlled lowering of attachments with engine turned off	•
Filter with partial micro filtration (5 µm)	•
Electronic pump regulation	•
Stepless mode system (ECO)	•
Flow compensation	•
Four mixed modes, can also be adjusted	•
Full flow micro filtration	+
Bio degradable hydraulic oil	+
Tool Control	+
Additional hydraulic circuits	+



## Engine

Turbo charger	•
After-cooled	•
Sensor controlled engine idling	•
Liebherr particle filter	+
Unit pump system	•
Air filter with pre-cleaner main- and safety element	•



## Operator's Cab

Storage tray	•
Displays for engine operating condition	•
Mechanical hour meters, readable from outside the cab	•
Roof hatch	•
6-way adjustable seat	•
Airpressure operator seat with heating and head-rest	+
Seat and consoles independently adjustable	•
Extinguisher	+
Removable customized foot mat	•
Dome light	•
Hydraulic cab elevation	+
Rigid cab elevation	+
Cab heater with defroster	•
Cloth hook	•
Air conditioning	•
Electric cool box	+
Steering wheel adjustable	•
Bullet proof window (fixed installation – can not be opened)	+
Stereo radio	+
Preparation for radio installation	+
Rain hood over front window opening	•
Beacon	+
All tinted windows	•
Door with sliding window	•
Optical warning if outriggers are not fully retracted	+
Auxiliary heating	+
Sun shade	+
Sun roller blind	•
Electronic drive away lock	+
Wiper/washer	•
Cigarette lighter and ashtray	•
Additional flood lights	+



## Attachment

Flood lights	•
Hydr. lines for clam operation in sticks	•
Industrial-type gooseneck sticks with remote hydraulic pin puller	+
Sealed pivots	•
Safety lift hook	+
Liebherr line of clams	+
Liebherr semi-automatic central lubrication system	•
Liebherr fully-automatic central lubrication system	+
Likufix	+
Safety check valves on hoist cylinder	•
Safety check valves on stick cylinder	•
Hose quick connection	•
Hydraulic or manual quick change tool adapter	+
Customized colors	+
Special buckets and other tools	+
Overload warning device	+
Two way valves for bucket/clam use	+
Locking of connections for clam operation	+
Cylinders with shock absorber	•

• = Standard, + = Option

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

