

# **Technical data**

### Diesel engine

<b>Rating per ISO 9249</b> 160 kW (217 HP) at 1,700 RPM			
Model	Liebherr D934		
Туре	4 cylinder in-line		
Bore / Stroke	122/150mm		
Displacement	7.01		
Engine operation	4-stroke diesel Common-Rail Turbo-charged and after-cooled Reduced emissions		
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements		
Engine idling	Sensor controlled		
Electrical system			
Voltage	24V		
Batteries	2 x 135 Ah / 12 V		
Alternator	Three-phase current 28 V / 140 A		
Stage V			
Harmful emissions values	According to regulation (EU) 2016/1628		
Emission control	Liebherr-SCRFilter technology		
Fuel tank	3301		
Urea tank	461		
Tier 4 Final			
Harmful emissions values In accordance with 40CFR1039 (EPA) / 13CCR (CARE			
Emission control Liebherr-SCR technology			
Option	Liebherr particle filter		
Fuel tank	3301		
Urea tank	461		



# $\approx \stackrel{\mathbb{L}}{\mathbb{L}} \text{ Cooling system}$

Diesel engine	Water-cooled	
	Compact cooling system consisting cooling unit for	
	water, hydraulic oil and charge air with stepless thermo-	
	statically controlled fan	



# Hydraulic controls

Power distribution	Via control valves in single block with integrated safety valves		
Servo circuit			
Equipment and swing	With hydraulic pilot control and proportional joystick levers		
Chassis	Electro-proportional via foot pedal		
Additional functions	Via switch or electro-proportional foot pedals		
Proportional control	Proportionally acting transmitters on the joysticks for additional hydraulic functions		



### Hydraulic system

Hydraulic pump		
For equipment and travel drive	2 Liebherr axial piston variable displacement pumps (double construction)	
Max. flow	2 x 231 l/min.	
Max. pressure	350 bar, PowerLift 380 bar	
For swing drive	Reversible axial piston variable displacement pump, closed-loop circuit	
Max. flow	140 l/min.	
Max. pressure	420 bar	
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority	
Hydraulic tank	175l	
Hydraulic system	max. 430 l	
Filtration	1 main return filter with integrated partial micro filtration (5 µm)	
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for espe- cially economical and environmentally friendly operation or for maximum digging performance and heavy-duty iobs	
S (Sensitive)	Mode for precision work and lifting through very sensitive movements	
E (Eco)	Mode for especially economical and environmentally friendly operation	
P (Power)	Mode for high performance with low fuel consumption	
P+ (Power-Plus)	Mode for highest performance and for very heavy duty applications, suitable for continuous operation	
Engine speed and performance setting	Stepless alignment of engine output and hydraulic power via engine speed	
Option	Tool Control: 20 pre-adjustable pump flows and pres-	



### $\bigcirc$ Swing drive

•	
Drive	Liebherr axial piston motor in a closed system, Liebherr planetary reduction gear
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0-10.0 RPM stepless
Swing torque	76 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)
Option	Pedal controlled positioning swing brake
	Slewing gear brake Comfort



ETT CAD			
Cab	ROPS safety cab structure (roll-over protection system) with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen  Air cushioned operator's seat with 3D-adjustable armrests, headrest, lap belt, seat heater, manual weight adjustment, adjustable seat cushion inclination and length and mechanical lumbar vertebrae support In addition to operator's seat standard: lockable horizontal suspension, automatic weight adjustment, adjustable suspension stiffness, pneumatic lumbar vertebrae support and passive seat climatisation with active coal		
Operator's seat Standard			
Operator's seat Comfort (Option)			
Operator's seat Premium (Option)	In addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), pneumatic low frequency suspension and active seat climatisation with active coal and ventilator		
Arm consoles	Joysticks with control consoles and swivel seat, folding left control console		
Operation and displays	Large high-resolution operating unit, self-explanatory, colour display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters		
Air-conditioning	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		
Refrigerant	R134a		
Global warming potential	1,430		
Quantity at 25 °C	1,300 g		
CO <sub>2</sub> equivalent	1.859 t		
Vibration emission*			
Hand/arm vibrations	<2.5m/s <sup>2</sup>		
Whole-body vibrations	<0.5 m/s <sup>2</sup>		
Measuring inaccuracy	According with standard EN 12096:1997		

### **⊸** Undercarriage

Drive	Oversized two speed power shift transmission with additional creeper speed, Liebherr axial piston motor with functional brake valve on both sides
Pulling force	129 kN
Travel speed	0- 3.5 km/h stepless (creeper speed off-road) 0- 7.0 km/h stepless (off-road) 0-13.0 km/h stepless (creeper speed on-road) 0-20.0 km/h stepless (road travel)
Driving operation	Automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions, both off-road and on-road
Axles	Manual or automatic hydraulically controlled front axle oscillation lock
Service brake	Two circuit travel brake system with accumulator; wet and backlash-free disc brake
Automatic digging brake	Works automatically when driving off (accelerator pedal actuation) and when the machine is stationary (engagement); the digging brake engages automatically – can be coupled with automatic swing axle lock
Holding brake	Wet multi-disc (spring applied, pressure released)
Stabilization	Rear stabilizer blade + front outriggers Rear outriggers + front stabilizer blade Rear + front outriggers
EW undercarriage	2.75 m / 9'

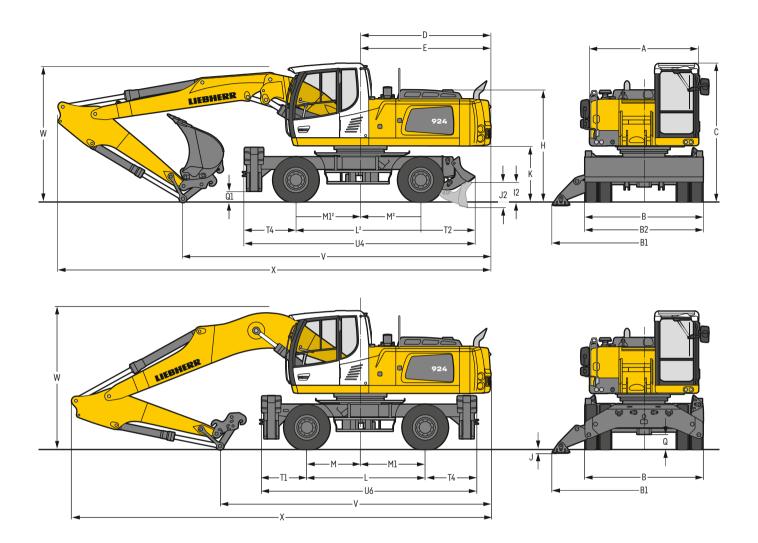
	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mount- ings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Bearings	Sealed, low maintenance

### **≪**⇔ Complete machine

Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Noise emission	
ISO 6396	72 dB(A) = L <sub>pA</sub> (inside cab)
2000/14/EC	104dB(A) = L <sub>WA</sub> (surround noise)

<sup>\*</sup> for risk assessment according to 2002/44/EC see ISO/TR 25398:2006

# **Dimensions**



mm   2,525		
B         2,750           B1         4,260           B2         2,750           C         3,220           D         3,030           E         3,030           H         2,605           I2         465           J         80           J2         590           K         1,280           L         2,750           L <sup>2</sup> 2,900           M         1,250           M <sup>2</sup> 1,400           M1         1,500           Q         350           Q1         250           T1         1,040           T2         1,260           T4         1,190           U4         5,350		mm
B1       4,260         B2       2,750         C       3,220         D       3,030         E       3,030         H       2,605         I2       465         J       80         J2       590         K       1,280         L       2,750         L <sup>2</sup> 2,900         M       1,250         M <sup>2</sup> 1,400         M1       1,500         Q       350         Q1       250         T1       1,040         T2       1,260         T4       1,190         U4       5,350		
B2       2,750         C       3,220         D       3,030         E       3,030         H       2,605         I2       465         J       80         J2       590         K       1,280         L       2,750         L <sup>2</sup> 2,900         M       1,250         M <sup>2</sup> 1,400         M1       1,500         Q       350         Q1       250         T1       1,000         T2       1,260         T4       1,190         U4       5,350		2,750
C       3,220         D       3,030         E       3,030         H       2,605         I2       465         J       80         J2       590         K       1,280         L       2,750         L <sup>2</sup> 2,900         M       1,250         M <sup>2</sup> 1,400         M1       1,500         M2       350         Q       350         Q1       250         T1       1,040         T2       1,260         T4       1,190         U4       5,350		
D         3,030           E         3,030           H         2,605           I2         465           J         80           J2         590           K         1,280           L         2,750           L <sup>2</sup> 2,900           M         1,250           M <sup>2</sup> 1,400           M1         1,500           Q         350           Q1         250           T1         1,040           T2         1,260           T4         1,190           U4         5,350		2,750
E       3,030         H       2,605         I2       465         J       80         J2       590         K       1,280         L       2,750         L <sup>21</sup> 2,900         M       1,250         M1       1,500         M1       1,500         Q       350         Q1       250         T1       1,00         T2       1,260         T4       1,190         U4       5,350	С	3,220
H     2,605       I2     465       J     80       J2     590       K     1,280       L     2,750       L²²     2,900       M     1,250       M²²     1,400       M1²²     1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350	D	
I2     465       J     80       J2     590       K     1,280       L²     2,750       M²     1,250       M²²     1,400       M1     1,500       M1²²     1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350		
J     80       J2     590       K     1,280       L     2,750       L <sup>2</sup> 2,900       M     1,250       M <sup>2</sup> 1,400       M1     1,500       M1 <sup>2</sup> 1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350		2,605
J2     590       K     1,280       L     2,750       L²     2,900       M     1,250       M²     1,400       M1     1,500       M1²     1,500       Q     350       Q1     250       T1     1,00       T2     1,260       T4     1,190       U4     5,350	12	465
K     1,280       L     2,750       L <sup>2</sup> 2,900       M     1,250       M1     1,500       M1 <sup>2</sup> 1,500       Q     350       Q1     250       T1     1,04       T2     1,260       T4     1,190       U4     5,350	J	80
L     2,750       L²     2,900       M     1,250       M²²     1,400       M1²     1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350	J2	590
L²¹         2,900           M         1,250           M²¹         1,400           M1²¹         1,500           Q         350           Q1         250           T1         1,040           T2         1,260           T4         1,190           U4         5,350	K	1,280
L²¹         2,900           M         1,250           M²¹         1,400           M1²¹         1,500           Q         350           Q1         250           T1         1,040           T2         1,260           T4         1,190           U4         5,350	L	2,750
M2     1,400       M1     1,500       M12 <sup>1</sup> 1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350	L2)	2,900
M1     1,500       M1 <sup>2</sup> 1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350	М	1,250
M1     1,500       M1 <sup>2</sup> 1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350	M <sup>2)</sup>	1,400
M1²¹     1,500       Q     350       Q1     250       T1     1,040       T2     1,260       T4     1,190       U4     5,350	M1	1,500
Q     350       Q1     250       T1     1,04       T2     1,260       T4     1,190       U4     5,350	M1 <sup>2)</sup>	
T1     1,040       T2     1,260       T4     1,190       U4     5,350	Q	
T2     1,260       T4     1,190       U4     5,350	Q1	250
T2     1,260       T4     1,190       U4     5,350	T1	1,040
<b>T4</b> 1,190 <b>U4</b> 5,350	T2	1,260
U4 5,350	T4	
	U4	

<sup>2)</sup> Undercarriage version stabilizer blade rear + front outriggers E = Tail radius Tyres 11.00-20

	Stick	Two-piece boom 5.80 m HD	
		Rear blade + front outriggers	Rear + front outriggers
	m	mm	mm
٧	2.25	7,800	7,800
	2.45	7,450	7,450
	2.65	7,150	7,150
	3.05	6,850	6,850
W	2.25	3,150	3,150
	2.45	3,150	3,150
	2.65	3,150	3,150
	3.05	3,200	3,200
X	2.25	10,100	10,100
	2.45	10,100	10,100
	2.65	10,100	10,100
	3.05	10,050	10,050

	Stick	Mono boom 5.65 m HD	
		Rear blade + front outriggers	Rear + front outriggers
	m	mm	mm
٧	2.25	6,600	6,600
	2.45	6,450	6,450
	2.65	6,300*	6,300*
	3.05	6,9001)2)	6,9001)2)
W	2.25	3,250	3,250
	2.45	3,300	3,300
	2.65	3,350*	3,350*
	3.05	3,3501)	3,3501)
X	2.25	9,750	9,750
	2.45	9,750	9,750
	2.65	9,750*	9,750*
	3.05	9,8001)	9,8001)

Dimensions are with equipment over steering axle

\* Equipment over digging axle for shorter transport dimensions

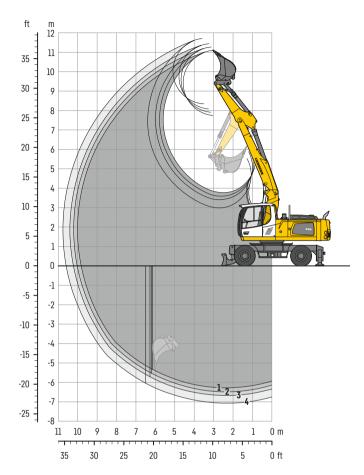
1) without quick coupler

2) tipping cylinder retracted

W = Max. ground clearance including approx. 150 mm piping

## **Backhoe bucket**

### with two-piece boom 5.80 m HD



#### Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.25	2.45	2.65	3.05
Max. digging depth	m	6.30	6.50	6.70	7.05
Max. reach at ground level	m	9.85	10.05	10.25	10.60
Max. dumping height	m	7.75	7.90	8.05	8.35
Max. teeth height	m	11.10	11.25	11.45	11.70
Min. equipment radius	m	3.25	3.15	3.10	3.15

#### **Digging forces**

without quick coupler		1	2	3	4
Max. digging force (ISO 6015)	kN	148.5	139.7	131.9	118.8
	t	15.1	14.2	13.4	12.1
Max. breakout force (ISO 6015)	kN	169.6	169.6	169.6	169.6
	t	17.3	17.3	17.3	17.3

Max. breakout force with ripper bucket

218.4 kN (22.3 t)

#### **Operating weight**

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom  $5.80\,\mathrm{m}$  (HD), stick  $2.45\,\mathrm{m}$ , quick coupler SWA  $48\,\mathrm{and}$  bucket  $1,400\,\mathrm{mm}/1.35\,\mathrm{m}^3$ .

Undercarriage versions	Weight (kg)
A 924 Heavy Lift Litronic with rear blade + front outriggers	27,100
A 924 Heavy Lift Litronic with rear + front outriggers	27,400

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

6	acity 7451 <sup>1)</sup>	<u>.</u>		Stabi rais					ront outriggers wn				t outriggers wn	
Cutting width	Capac ISO 74	Weight		Stick lei	ngth (m)			Stick le	ngth (m)			Stick le	ngth (m)	
mm	m³	kg	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05
850 <sup>2)</sup>	0.75	620					•							
1,0502)	0.95	710					-		•	-		•		-
1,2502)	1.15	810					•							
1,4002)	1.35	850												
1,5002)	1.45	880			-	Δ	•			•				
1,6002)	1.55	940			Δ	Δ	-							
8503)	0.75	690	-	-	-	-	-	-	-	-	-	-	-	
1,0503)	0.95	800				•				•				
1,2503)	1.15	910			•	•	•			•		-		
1,4003)	1.35	960								•				
1,5003)	1.45	1,000	-		-	Δ			-		-	-		-
1,6003)	1.55	1,060			Δ	Δ	•							
8504)	0.80	630	-		•	•		-		-	-	-		
1,0504)	1.05	720												
1,2504)	1.30	800	-		•						-	-		
1,4004)	1.50	870		-	-	Δ	-					-		
1,5004)	1.65	890	-		Δ	Δ		•		-	-			
1,6004)	1.70	950		Δ	Δ	Δ	•		•	•		•		

<sup>\*</sup> Indicated loads are based on ISO 10567 and do not exceed 75% of tipping or 87% of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

Max. material weight  $\blacksquare$  =  $\le 1.8 \text{ t/m}^3$ ,  $\blacksquare$  =  $\le 1.5 \text{ t/m}^3$ ,  $\triangle$  =  $\le 1.2 \text{ t/m}^3$ , - = not authorised

<sup>1)</sup> comparable with SAE (heaped)

<sup>&</sup>lt;sup>2)</sup> Bucket with teeth <sup>3]</sup> Bucket with teeth in HD version <sup>4)</sup> Bucket with cutting edge (also available in HD version)

## **Lift capacities**

### with two-piece boom 5.80 m HD

Sticl	k 2.25 m	1												Stic	k 2.45 n	n											
t∰	Undercarr stabilized	iage	3.0 m	4.5	m	6.0	m	7.5	m	9.0 m	1	γÇ	þ	I	Undercari stabilized		3.0 m		4.5 m	6.	0 m	7.5	m	9.0 m	B	\\{   	₽
. m	rear	front		-5	ď	-5	<u></u>	-5)	ď	a b	-5	ρĬ	m	m T n	rear	front	-5	, 	න ජ්	-5"	ď	-5	Ь		-5	ρĥ	m
9.0	- Blade Outriggers	- Outriggers Outriggers		7.4* 7.4*	7.4* 7.4* 7.4*			-	5440	Story Sand	7.1* 7.1* 7.1*	7.1* 7.1* 7.1*	4.6	9.0	- Blade Outriggers	- Outriggers Outriggers	-800 Pa	7	.7* 7.7 .7* 7.7 .7* 7.7		Desid		500	-900 600g	6.4* 6.4* 6.4*	6.4* 6.4* 6.4*	4.9
7.5	- Blade Outriggers	- Outriggers Outriggers		8.6* 8.6* 8.6*	8.6* 8.6* 8.6*	7.5* 7.5*	7.5* 7.5* 7.5*				5.2 5.9* 5.9*	5.9* 5.9* 5.9*	6.4	7.5	- Blade Outriggers	- Outriggers Outriggers			0* 0.0	6.0 7.4* 7.4*	7.4* 7.4* 7.4*	/ 2	F /		4.9 5.4* 5.4*	5.4* 5.4* 5.4*	6.7
6.0	Blade Outriggers	Outriggers Outriggers		8.9* 8.9* 8.9*	8.9* 8.9* 8.9*	6.0 8.4* 8.4*	8.1 8.4* 8.4*	4.0 5.7* 5.7*	5.5 5.7* 5.7*		4.0 5.4* 5.4*	5.4* 5.4* 5.4*	7.5	6.0	Blade Outriggers	Outriggers Outriggers		8	.0* 8.0 .0* 8.0 .0* 8.0	8.2* 8.2*	8.1 8.2* 8.2*	4.1 6.3 6.3*	5.6 6.3* 6.3*		3.8 5.0* 5.0*	5.0* 5.0* 5.0*	7.8
4.5	- Blade Outriggers			11.4* 11.4*	11.4*	6.0 8.8 9.0*	7.9 9.0* 9.0*	4.1 6.3 7.7*	5.6 7.7* 7.7*		3.4 5.3* 5.3*	4.7 5.3* 5.3*	8.2	4.5	- Blade Outriggers		14.0* 14. 14.0* 14. 14.0* 14.	0* 11 0* 11	.0* 11.0 .0* 11.0	* 8.8* * 8.8*	7.9 8.8* 8.8*	4.1 6.4 7.6*	5.6 7.6* 7.6*		3.2 4.9* 4.9*	4.5 4.9* 4.9*	8.4
3.0	Blade Outriggers		15.3 16.6* 16.6* 16.6* 16.6* 16.6*	13.2 13.3*	13.3*	5.9 8.7 9.8*	7.8 9.8* 9.8*	4.1 6.3 7.6	5.6 7.9* 7.9*		3.1 4.9 5.4*	4.3 5.4* 5.4*	8.6	3.0	Blade Outriggers		15.3 16. 16.9* 16. 16.9* 16.	9* 13 9* 13	.6 11.7 .0* 13.0 .0* 13.0		7.8 9.6* 9.6*	4.1 6.3 7.6	5.6 7.8* 7.8*		3.0 4.7 5.0*	4.1 5.0* 5.0*	8.8
1.5	Blade Outriggers		15.1 16.9* 16.9* 16.9* 16.9* 16.9*	13.0 14.2*		10.3*	7.7 10.3* 10.3*	3.9 6.2 7.6	5.4 8.1* 8.1*		3.0 4.8 5.8*	4.2 5.8* 5.8*	8.6	1.5	Blade Outriggers		15.1 16. 16.7* 16. 16.7* 16.	7* 13 7* 14	.0 14.1 .1* 14.1	* 10.2*	7.7 10.2* 10.2*	4.0 6.2 7.6	5.5 8.0* 8.0*		2.9 4.6 5.3*	4.0 5.3* 5.3*	8.8
0	Blade Outriggers		15.1 19.9* 19.9* 19.9* 19.9* 19.9*	13.0 14.3*		10.3	7.8 10.3* 10.3*	3.8 6.0 7.5	5.3 8.1* 8.1*		3.0 4.9 6.1	4.3 6.4* 6.4*	8.4	0	Blade Outriggers		15.1 19. 19.4* 19. 19.4* 19.	4* 13 4* 14	.0 14.2 .2* 14.2	* 10.2	7.8 10.3* 10.3*	3.8 6.0 7.5	5.3 8.0* 8.0*		2.9 4.7 5.8*	4.1 5.8* 5.8*	8.6
-1.5	- Blade Outriggers	Outriggers	14.6 22.9 23.0* 23.0* 23.0* 23.0*	13.3 14.4*		10.5	7.4 10.5* 10.5*	3.6 5.8 7.3	5.1 7.6* 7.6*		3.3 5.3 6.1*	4.6 6.1* 6.1*	7.9	-1.5	Blade Outriggers	- Outriggers Outriggers	22.7* 22.	7* 13 7* 14	.2 14.3 .3* 14.3	* 10.4	7.5 10.4* 10.4*	3.6 5.8 7.3	5.1 7.9* 7.9*		3.1 5.1 5.9*	4.4 5.9* 5.9*	8.2
-3.0	- Blade Outriggers	Outriggers	14.5 23.6 23.7* 23.7* 23.7* 23.7*	13.2 14.9*		5.0 8.1 9.7*	7.1 9.7* 9.7*				3.9 5.3* 5.3*	5.3* 5.3* 5.3*	7.1	-3.0	- Blade Outriggers		14.4 23. 23.5* 23. 23.5* 23.	5* 13 5* 14	.2 14.8 .8* 14.8	* 8.1 * 10.1*	7.1 10.1* 10.1*				3.6 5.2* 5.2*	5.2 5.2* 5.2*	7.3
-4.5	- Blade Outriggers	- Outriggers Outriggers	14.2 19.3* 19.3* 19.3* 19.3* 19.3*	7.5 9.8* 9.8*	9.8* 9.8* 9.8*						6.5 7.4* 7.4*	7.4* 7.4* 7.4*	5.0	-4.5	Blade Outriggers	- Outriggers Outriggers		8* 11	1* 11.1	*					5.6 6.6* 6.6*	6.6* 6.6* 6.6*	5.4

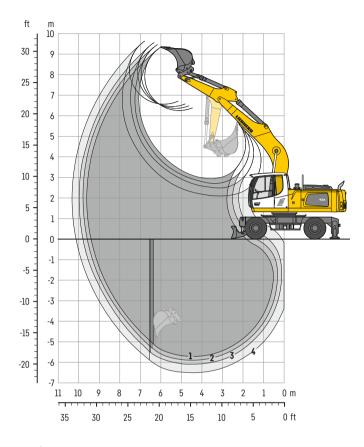
Sticl	< 2.65 m	1														S	tick	( 3.05 m	1											
1	Undercarr stabilized	iage	3.0	m	4.5	im	6.0	) m	7.5	m	9.0	m	1	\   	₽ E	ĵ€	Undercarriage stabilized				4.5 m	6.0	0 m	7.5	m	9.0	m	P	<u>`</u>	₽
m m	rear	front	-5	ď.	-5)	Ь	-5	ĕ	-5)	Ĕ	5)	ď	-5	ď	m	• •	m	rear	front	b		-50	Ğ		ď	-50	ď.	-5)	ď	m
9.0	- Blade Outriggers	- Outriggers Outriggers			7.6* 7.6* 7.6*	7.6* 7.6*							5.9* 5.9* 5.9*	5.9* 5.9* 5.9*	5.3		9.0	- Blade Outriggers	- Outriggers Outriggers									4.9* 4.9* 4.9*	4.9* 4.9* 4.9*	5.9
7.5	- Blade Outriggers	- Outriggers Outriggers			7.04	7.0*	6.0 7.1* 7.1*	7.1* 7.1* 7.1*		F /			4.6 5.0* 5.0*	5.0* 5.0* 5.0*	7.0		7.5	- Blade Outriggers	- Outriggers Outriggers			6.1 6.4* 6.4*	6.4* 6.4* 6.4*	4.0				4.2 4.2* 4.2*	4.2*	7.4
6.0	- Blade Outriggers	Outriggers Outriggers	9.9*	0.0*	7.2* 7.2* 7.2* 8.9	7.2* 7.2* 7.2* 9.6*	6.1 7.7* 7.7* 5.9	7.7* 7.7* 7.7* 7.9	4.1 6.3 6.5* 4.2	5.6 6.5* 6.5* 5.7			3.6 4.6* 4.6* 3.1	4.6* 4.6* 4.6* 4.3	8.0		6.0	- Blade Outriggers	- Outriggers Outriggers		7.6* 7.6	6.1 6.6* 6.6*	6.6* 6.6* 6.6* 7.7*	4.2 6.1* 6.1* 4.3	5.7 6.1* 6.1* 5.7	2.9	3.9*		4.0* 4.0* 4.0* 3.9*	8.4
4.5	Blade Outriggers	Outriggers Outriggers	9.9* 9.9* 9.9*	9.9* 9.9*	9.6* 9.6*	9.6*	8.6* 8.6* 5.8	8.6* 8.6* 7.7	6.4 7.4* 4.1	7.4* 7.4* 5.6			4.5* 4.5* 2.8	4.5* 4.5* 4.5*	8.6		4.5	Blade Outriggers	Outriggers Outriggers	15.5 17.9*	7.6* 7.6 7.6* 7.6 7.6* 7.6 8.6 11.8	7.7* 7.7* 5.8	7.7* 7.7* 7.7	6.4 7.1*	7.1* 7.1* 5.7	3.9* 3.9*	3.9* 3.9* 4.0	3.9*		9.0
3.0	Blade Outriggers	Outriggers	17.3* 17.3* 15.0	17.3* 17.3*	12.7* 12.7*	12.7*	8.6 9.5* 5.8	9.5* 9.5* 7.6	6.3 7.6 4.0	7.7* 7.7* 5.5	2.8	3.9	4.6 4.6* 2.7	4.6* 4.6* 3.9	9.0		3.0	Blade Outriggers	Outriggers Outriggers	17.9* 17.9*	12.1* 12.1 12.1* 12.1	8.6 9.1*	9.1*	6.3 7.5* 4.1	7.5* 7.5* 5.6	4.6	5.6* 5.6* 3.9	4.0* 4.0*		9.3
1.5	Blade Outriggers		16.6* 16.6*	16.6* 16.6*	12.9 14.0*	14.0* 14.0*	8.5 10.1*	10.1* 10.1*	6.2 7.5	8.0* 8.0*	4.5	5.2* 5.2*	4.4 4.8*	4.8* 4.8*	9.0		1.5	Blade Outriggers	Outriggers Outriggers	16.7* 16.7* 16.7* 16.7*	12.9 13.7 13.7* 13.7	8.5 9.9*	9.9* 9.9*	6.3 7.5	7.8* 7.8*	4.5 5.6	6.4* 6.4*	4.2 4.2*	4.2* 4.2*	9.4
0	Blade Outriggers	Outriggers	15.0 19.0* 19.0*	19.0* 19.0*	12.9 14.1*	14.1*	10.2	7.7 10.2* 10.2*	3.8 6.1 7.5	5.3 8.0* 8.0*			2.8 4.5 5.3*	3.9 5.3* 5.3*	8.8		0	Blade Outriggers		14.9 18.3* 18.3* 18.3* 18.3* 18.3*	14.0* 14.0	5.7 8.5 10.1	7.6 10.1* 10.1*	3.9 6.1 7.5	5.4 7.9* 7.9*	4.4	3.8 6.1* 6.1*	4.2 4.5*	4.5*	9.2
-1.5	- Blade Outriggers		22.3*	22.3* 22.3*	13.1 14.2*	14.2*		7.5 10.3* 10.3*	3.6 5.8 7.3	5.1 8.0* 8.0*			3.0 4.9 5.8*	4.2 5.8* 5.8*	8.4	-	1.5	- Blade Outriggers	- Outriggers Outriggers	21.4* 21.4*	14.1* 14.1	10.2	7.6 10.2* 10.2*	3.7 5.9 7.4	5.1 8.0* 8.0*			2.7 4.5 5.2*	5.2*	8.8
-3.0	- Blade Outriggers	Outriggers	14.3 23.3* 23.3*	23.3* 23.3*	13.3 14.6*	14.6*	5.0 8.2 10.4*	7.1 10.4* 10.4*	3.5 5.5* 5.5*	5.0 5.5* 5.5*			3.4 5.1* 5.1*	4.9 5.1* 5.1*	7.6	-	-3.0	- Blade Outriggers		14.3 22.9 23.0* 23.0* 23.0* 23.0*	14.4* 14.4	10.4	7.2 10.5* 10.5*	3.5 5.7 6.9*	5.0 6.9* 6.9*			5.1*	5.1*	8.0
-4.5	- Blade Outriggers	- Outriggers Outriggers	14.2 22.1* 22.1*	22.1*	7.5 12.3* 12.3*	12.3*							5.0 5.9* 5.9*	5.9* 5.9* 5.9*	5.9	-	4.5	- Blade Outriggers	- Outriggers Outriggers				6.9 7.7* 7.7*					4.2 5.0* 5.0*	5.0* 5.0* 5.0*	6.6

Height PowerLift 380 bar the lift capacities on the load hook of the Libert quick coupler SWA 48 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 stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 12 t). Without the quick coupler, lift capacities will increase by up to 226 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

## **Backhoe bucket**

#### with mono boom 5.65 m HD



#### Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.25	2.45	2.65	3.05
Max. digging depth	m	5.70	5.90	6.10	6.50
Max. reach at ground level	m	9.40	9.60	9.80	10.15
Max. dumping height	m	6.35	6.45	6.55	6.70
Max. teeth height	m	9.35	9.45	9.55	9.65
Min. equipment radius	m	3.90	3.70	3.45	3.15

#### **Digging forces**

without quick coupler		1	2	3	4
Max. digging force (ISO 6015)	kN	148.5	139.7	131.9	118.8
	t	15.1	14.2	13.4	12.1
Max. breakout force (ISO 6015)	kN	169.6	169.6	169.6	169.6
	t	17.3	17.3	17.3	17.3

Max. breakout force with ripper bucket

218.4 kN (22.3 t)

#### **Operating weight**

The operating weight includes the basic machine with 8 tyres plus intermediate rings, mono boom  $5.65\,m$  (HD), stick  $2.65\,m$ , quick coupler SWA 48 and bucket  $1,400\,mm/1.35\,m^3$ .

Undercarriage versions	Weight (kg)
A 924 Heavy Lift Litronic with rear blade + front outriggers	26,700
A 924 Heavy Lift Litronic with rear + front outriggers	27,000

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

ing h	Capacity ISO 74511	jht.		Stabi rais					ront outriggers wn				t outriggers wn	
Cutting width	Cap	Weight		Stick lei	ngth (m)			Stick le	ngth (m)			Stick le	ngth (m)	
mm	m³	kg	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05
8502)	0.75	620			•	•	-	•		•				
1,0502)	0.95	710	-				•							
1,2502)	1.15	810	-		•	-	-	-		-	-		-	
1,4002)	1.35	850	•											
1,5002)	1.45	880	-		-	-	•							
1,6002)	1.55	940	•	-										
8503)	0.75	690	-			•	•							
1,0503)	0.95	800	•											
1,2503)	1.15	910				•	•							
1,4003)	1.35	960	•											
1,5003)	1.45	1,000	-		-	-	•							
1,6003)	1.55	1,060	-			Δ								
8504)	0.80	630	-			•								
1,0504)	1.05	720	-											
1,2504)	1.30	800	-	•	•	-	-	-	•	-	-		-	
1,4004)	1.50	870												
1,5004)	1.65	890	-		-	Δ	-	-	-	-	-	-	-	
1,6004)	1.70	950	-			Δ								

<sup>\*</sup> Indicated loads are based on ISO 10567 and do not exceed 75% of tipping or 87% of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

Max. material weight  $\blacksquare$  =  $\leq 1.8 \text{ t/m}^3$ ,  $\blacksquare$  =  $\leq 1.5 \text{ t/m}^3$ ,  $\triangle$  =  $\leq 1.2 \text{ t/m}^3$ , - = not authorised

 $<sup>^{1)}</sup>$  comparable with SAE (heaped)

<sup>&</sup>lt;sup>2)</sup> Bucket with teeth <sup>3]</sup> Bucket with teeth in HD version <sup>4)</sup> Bucket with cutting edge (also available in HD version)

### **Lift capacities**

#### with mono boom 5.65 m HD

Sticl	k 2.25 m	)								,	Sticl	k 2.45 n	n								
1	Undercarr stabilized	age	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m		是	<u> </u>		Undercarr stabilized		3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	6	<b>≈</b> 2	₽
m	rear	front	<b>5</b> ₫	<b>5</b> b	b	<b>5</b> ₫	<b>-</b> 5 b	D	ا أ	m `	m	rear	front	<b>5</b> b	~₽ b	<b>5</b> ₫	b	D		B	m
9.0	- Blade Outriggers	- Outriggers Outriggers									9.0	- Blade Outriggers	- Outriggers Outriggers								
7.5	- Blade Outriggers	- Outriggers Outriggers						5.6* 5. 5.6* 5. 5.6* 5.	6* 6	5.0	7.5	- Blade Outriggers	- Outriggers Outriggers			5.9 6.0° 6.0* 6.0° 6.0* 6.0°			5.1*	5.1* 5.1* 5.1*	6.2
6.0	- Blade Outriggers	- Outriggers Outriggers			5.8 7.7° 7.7* 7.7° 7.7* 7.7°			4.4 5. 5.3* 5. 5.3* 5.	3* 7	7.1	6.0	- Blade Outriggers	- Outriggers Outriggers			5.9 7.4° 7.4° 7.4° 7.4° 7.4°	•		4.9*	4.9* 4.9* 4.9*	7.3
4.5	- Blade Outriggers	- Outriggers Outriggers			5.6 7.7 8.5* 8.5' 8.5* 8.5'	3.9 5.4 6.1 7.0 7.0* 7.0		3.7 5. 5.3* 5. 5.3* 5.	3* 7	7.8	4.5	- Blade Outriggers	- Outriggers Outriggers			5.6 7.7 8.2* 8.2 8.2* 8.2			4.9*	4.9* 4.9* 4.9*	8.0
3.0	- Blade Outriggers	- Outriggers Outriggers		7.9 11.4 12.7* 12.7* 12.7* 12.7*	5.3 7.4 8.4 9.7' 9.7* 9.7'	3.8 5.3 6.0 8.3 7.5 8.3		3.3 4. 5.3 5. 5.6* 5.	6* 8	3.1	3.0	- Blade Outriggers	- Outriggers Outriggers		7.9 11.5 12.3* 12.3* 12.3* 12.3*	5.3 7.4 8.4 9.4 9.4* 9.4			5.1*	4.5 5.1* 5.1*	8.3
1.5	- Blade Outriggers	- Outriggers Outriggers		7.3 10.7 12.4 14.9* 14.9* 14.9*	5.0 7.0 8.1 10.8 10.3 10.8			3.2 4. 5.1 6. 6.1* 6.	1*   8	3.2	1.5	- Blade Outriggers	- Outriggers Outriggers		7.3 10.7 12.5 14.6* 14.6* 14.6*	5.0 7.0 8.1 10.6 10.2 10.6			4.9	4.3 5.5* 5.5*	8.4
0	- Blade Outriggers	- Outriggers Outriggers		7.0 10.4 12.1 15.8* 15.8* 15.8*	4.8 6.8 7.8 11.5 10.0 11.5	3.5 5.0 5.7 9.1 7.2 9.1		3.3 4. 5.3 7. 6.6 7.	0* 7	7.9	0	- Blade Outriggers	- Outriggers Outriggers	7.4* 7.4* 7.4* 7.4* 7.4* 7.4*	6.9 10.3 12.0 15.7* 15.7* 15.7*	4.7 6.8 7.8 11.4 10.0 11.4			5.1	4.4 6.3* 6.3*	8.1
-1.5	- Blade Outriggers	- Outriggers	12.7 12.8* 12.8* 12.8* 12.8* 12.8*	6.9 10.3 12.0 15.5* 15.5* 15.5*	4.7 6.7 7.7 11.5 9.9 11.5			3.6 5. 5.8 8. 7.3 8.	8* 7	7.4	-1.5	- Blade Outriggers	- Outriggers Outriggers	12.3* 12.3* 12.3* 12.3* 12.3* 12.3*	6.8 10.2 11.9 15.5* 15.5* 15.5*	4.6 6.7 7.7 11.5 9.9 11.5	3.5 4.9 5.6 8.8 7.1 8.8		5.5	4.8 7.8* 7.8*	7.6
-3.0	- Blade Outriggers	-	13.0 19.4* 19.4* 19.4*	7.0 10.4 12.1 13.9* 13.9* 13.9*	4.7 6.8 7.8 10.3 10.0 10.3			4.3 6. 7.1 9. 9.0 9.	2 3* 6	5.5	-3.0	- Blade Outriggers	- Outriggers Outriggers	12.8 19.0* 19.0* 19.0*	6.9 10.3 12.0 14.2* 14.2* 14.2*	4.7 6.7 7.7 10.5 9.9 10.5			4.1 6.7	5.8	6.7
-4.5	- Blade Outriggers	- Outriggers Outriggers		7.3 10.3* 10.3* 10.3* 10.3* 10.3*				6.8 9. 9.7* 9. 9.7* 9.	7* 7* 4	\$.7	-4.5	- Blade Outriggers	- Outriggers Outriggers		7.2 10.6 10.9* 10.9* 10.9* 10.9*				5.9 9.2*	8.6	5.2

Sticl	k 2.65 m	1										Stic	k 3.05 n	n									
I∰	Undercarr stabilized	iage	3.0 m	4.5 m	6.0 m	7.5	im .	9.0 m	1	<u>ر</u>	þ	I	Undercarı stabilized		3.0 m	4.5 m	6.0 m	7.5	m	9.0 m	E	<b>₩</b>	₽
m	rear	front	D	b		-5)	占	~D ₽	-43	뮵	m	m	rear	front	b	D	D €		P .	-so b		占	m
9.0	- Blade Outriggers	- Outriggers Outriggers										9.0	- Blade Outriggers	- Outriggers Outriggers									
7.5	- Blade Outriggers	- Outriggers Outriggers							4.7* 4.7* 4.7*	4.7* 4.7*	6.5	7.5	- Blade Outriggers	- Outriggers Outriggers							4.1*	4.1* 4.1*	6.9
6.0	- Blade Outriggers	- Outriggers Outriggers				4.0 4.7* 4.7*	4.7* 4.7* 4.7*		4.0 4.5* 4.5*	4.5* 4.5* 4.5*	7.5	6.0	- Blade Outriggers	- Outriggers Outriggers				4.1 5.2* 5.2*	5.2* 5.2* 5.2*		3.9* 3.9*	3.9*	7.9
4.5	- Blade Outriggers	- Outriggers Outriggers			5.6 7.8 7.9* 7.9 7.9* 7.9	7.2*	5.4 7.2* 7.2*		3.4 4.5* 4.5*	4.5* 4.5* 4.5*	8.2	4.5	- Blade Outriggers	- Outriggers Outriggers			5.7 7.4 7.4* 7.4 7.4* 7.4	* 6.2 * 6.7*	5.5 6.7* 6.7*		3.9* 3.9*	3.9*	8.5
3.0	- Blade Outriggers	- Outriggers Outriggers		8.0 11.5 11.8* 11.8* 11.8* 11.8*	5.3 7.4 8.4 9.2 9.2* 9.2	3.8 6.0 7.5	5.3 7.9* 7.9*		3.1 4.7* 4.7*	4.3 4.7* 4.7*	8.5	3.0	- Blade Outriggers	- Outriggers Outriggers		8.1 11.0* 11.0* 11.0* 11.0* 11.0*	5.3 7.5 8.5 8.7 8.7* 8.7	6.0 7.5	5.3 7.6* 7.6*		4.0* 4.0*	4.0*	8.9
1.5	- Blade Outriggers	- Outriggers Outriggers		7.3 10.8 12.5 14.3* 14.3* 14.3*	4.9 7.0 8.1 10.4 10.3 10.4	3.6 5.8 7.3	5.1 8.5* 8.5*		3.0 4.8 5.1*	4.2 5.1* 5.1*	8.6	1.5	Blade Outriggers	- Outriggers Outriggers	7.1* 7.1* 7.1* 7.1* 7.1* 7.1*	7.4 10.9 12.6 13.7* 13.7* 13.7*	5.0 7.1 8.1 10.0 10.0* 10.0	5.8 7.3	5.1 8.3* 8.3*		4.4* 4.4*	4.4*	8.9
0	- Blade Outriggers	- Outriggers Outriggers	7.5* 7.5* 7.5* 7.5* 7.5* 7.5*	6.9 10.3 12.0 15.6* 15.6* 15.6*	4.7 6.8 7.8 11.3 10.0 11.3	3.5 5.6 7.1	4.9 9.0* 9.0*		3.0 4.9 5.7*	4.2 5.7* 5.7*	8.3	0	- Blade Outriggers	- Outriggers Outriggers	8.1* 8.1* 8.1* 8.1* 8.1* 8.1*	6.9 10.3 12.0 15.3* 15.3* 15.3*	4.7 6.7 7.8 11.0 10.0 11.0	5.6 7.1	4.9 8.8* 8.8*		4.5 4.9*	4.9*	8.7
-1.5	- Blade Outriggers	- Outriggers Outriggers	11.9* 11.9* 11.9* 11.9* 11.9* 11.9*	6.8 10.2 11.9 15.6* 15.6* 15.6*	4.6 6.6 7.6 11.4 9.8 11.4	3.4 5.6 7.1	4.9 8.9* 8.9*		3.2 5.3 6.6	4.6 7.0* 7.0*	7.8	-1.5	- Blade Outriggers		11.4* 11.4* 11.4* 11.4* 11.4* 11.4*	6.7 10.1 11.8 15.6* 15.6* 15.6*	7.6 11.4 9.8 11.4	* 5.5	4.8 8.9* 8.9*		4.9	4.3 5.9* 5.9*	8.2
-3.0	- Blade Outriggers	- Outriggers Outriggers		6.8 10.2 11.9 14.4* 14.4* 14.4*	4.6 6.7 7.7 10.6 9.8 10.6				3.8 6.3 8.0	5.5 8.8* 8.8*	6.9	-3.0	- Blade Outriggers	- Outriggers Outriggers	12.5 16.3* 16.3* 16.3* 16.3* 16.3*	6.7 10.1 11.8 14.8* 14.8* 14.8*	4.5 6.6 7.6 10.9 9.7 10.9	*			5.7	5.0 7.9* 7.9*	7.3
-4.5	- Blade Outriggers	- Outriggers Outriggers	13.1 16.1* 16.1* 16.1*	7.1 10.5 11.5* 11.5*					5.4 9.0* 9.0*	7.8 9.0* 9.0*	5.5	-4.5	- Blade Outriggers	Outriggers Outriggers		6.9 10.3 12.0 12.4* 12.4* 12.4*	4.7 6.7 7.8 8.8 8.8* 8.8	*			7.7	6.7 8.8* 8.8*	6.0

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

With PowerLift 380 bar the lift capacities on the load hook of the Liebherr quick coupler SWA 48 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 stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 121). Without the quick coupler, lift capacities will increase by up to 226 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# **Equipments**

### Ditch cleaning buckets

Ditch cleaning buckets Machine stability per ISO 10567\* (75% of tipping capacity)

Cutting width Capacity ISO 745111		Stabilizers raised				I	Rear blade + fro dov			Rear + front outriggers down				
Cutting width	Capacitt ISO 74.5; A Stick length (m)		Stick length (m)			Stick length (m)								
mm	$m^3$	kg	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05
Two-pie	ce boom	5.80 m H	D											
1,5003)	0.50	430	-											
1,6002)	0.80	850					-		•		•	-		
2,0002)	0.50	690												
2,0003)	0.70	520												
2,0002)	0.70	880	-							•				
2,0003)	1.20	640					-	-	-	-	•			
2,0002)	1.00	940	-							•				
2,2002)	0.80	880							•			-		
2,2002)	1.15	980	-							•				
2,2002)	1.40	1,000				Δ	-	-	-	-	•	-		
2,4002)	0.85	890	-							•				
2,4003)	0.85	610					-	-	•		•	-		
2,4003)	1.25	1,000	-							•				
Mono bo	om 5.65	m HD												
1,5003)	0.50	430	-							-				
1,6002)	0.80	850				•	-	-	-	-	•	-		
2,0002)	0.50	690												
2,0003)	0.70	520				•			•		•		•	
2,0002)	0.70	880	-							•				
2,0003)	1.20	640				•			-			-		
2,0002)	1.00	940	-							-				
2,2002)	0.80	880	-		-	-	-		-	-	•		•	
2,2002)	1.15	980	=											
2,2002)	1.40	1,000			-	-	-		-	-	-		•	
2,4002)	0.85	890	-											
2,4003)	0.85	610	-										-	
2,4003)	1.25	1,000	•	•				•	-	•		•	•	

<sup>\*</sup> Indicated loads are based on ISO 10567 and do not exceed 75% of tipping or 87% of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

Max. material weight  $\blacksquare$  =  $\leq 1.8 \text{ t/m}^3$ ,  $\blacksquare$  =  $\leq 1.5 \text{ t/m}^3$ ,  $\triangle$  =  $\leq 1.2 \text{ t/m}^3$ , - = not authorised

<sup>1)</sup> comparable with SAE (heaped)
2) with 2 x 50° rotator

<sup>3)</sup> rigid ditch cleaning bucket

# **Equipments**

### **Tilt buckets**

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

Cutting width	acity 7451 <sup>1)</sup>	Weight		Stabil rais				Rear blade + fr do	ont outriggers wn			_	t outriggers wn	
Vid Vid	So do	Wei		Stick length (m)		Stick length (m)				Stick length (m)				
mm	m³	kg	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05	2.25	2.45	2.65	3.05
Two-pie	ce boom	5.80 m H	D											
1,5002)	1.20	970				-								
1,6002)	0.80	820	-			-	-			-	-			
1,6002)	1.00	890												
1,6002)	1.35	970								•	•			
1,6002)	1.55	1,130	=	-	Δ	Δ								
Mono bo	om 5.65	m HD												
1,5002)	1.20	970				-								
1,6002)	0.80	820								•	-			
1,6002)	1.00	890	-	•	•	-	-			-		-		
1,6002)	1.35	970					-			-	-			
1,6002)	1.55	1,130				Δ	•							

<sup>\*</sup> Indicated loads are based on ISO 10567 and do not exceed 75% of tipping or 87% of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle <sup>1)</sup> comparable with SAE (heaped)

Max. material weight  $\blacksquare$  =  $\leq 1.8 \text{ t/m}^3$ ,  $\blacksquare$  =  $\leq 1.5 \text{ t/m}^3$ ,  $\triangle$  =  $\leq 1.2 \text{ t/m}^3$ , - = not authorised

<sup>2)</sup> with 2 x 50° rotator

# **Equipment**

### **⊚** Undercarriage

Dual-circuit braking system	•
Rear stabilizer blade + front outriggers	+
Digging brake, automatic	•
Tyres (twin tyres) Mitas EM 22	•
Individual control outriggers	+
Travel speed levels (four)	•
Load holding valve on each stabilization cylinder	•
Powershift transmission, semiautomatic	•
Parking brake, maintenance-free	•
Shuttle axle lock, automatic	•
Rear outriggers + front stabilizer blade	+
Rear + front outriggers	+
Tyres, variants	+
Protection for piston rods, stabilizer cylinder	+
Storage compartment left	•
Storage compartment right	+
Undercarriage EW 2.75 m / 9'	•
Tool equipment, extended	+

### **Uppercarriage**

Uppercarriage rear light, 2 pieces, LED	+
Uppercarriage right side light, 1 piece, LED	+
Refuelling system with filling pump	+
Main battery switch for electrical system	•
Engine hood with gas spring	•
Amber beacon, at uppercarriage, LED double flash	+
Service doors, lockable	•

## Hydraulic system

Shut-off valve between hydraulic tank and pump(s)	•
Pressure test fittings	•
Accumulator for controlled lowering of the equipment with the engine shut down	•
Hydraulic oil filter with integrated microfilter	•
Liebherr hydraulic oil from -20 °C to +40 °C	•
Liebherr hydraulic oil, biologically degradable	+
Liebherr hydraulic oil, specially for warm or cold regions	+
Bypass filter	+
PowerLift	•
Switchover high pressure circuit and tipping cylinder	+
Switchover high pressure circuit and two-piece boom	+

### ightharpoonup Diesel engine

Fuel anti-theft device	+
Liebherr particle filter*	+
Reversible fan drive, fully automatic	+
Air pre-filter with dust discharge	+
Automatic engine shut-down (time adjustable)	+
Preheating fuel	+

### 

Storage compartment	•	
Stabilizer, proportional control on left joystick	•	
Cab lights rear, LED	+	
Cab lights front, halogen (under rain cover)	•	
Cab lights front, LED (above rain cover)	+	
Cab lights front, LED (under rain cover)	+	
Exterior mirror, electrical adjustable, with heating	+	
Mechanical hour meters, readable from outside the cab	•	
Roof window made from impact-resistant laminated safety glass	+	
Slewing gear brake Comfort, button on the left or right joystick	+	
Slewing gear brake, rocker switch in the right joystick	•	
Operator's seat Standard	•	
Operator's seat Comfort	+	
Operator's seat Premium	+	
Driving alarm (acoustic signal is emitted during travel, can be switched ON/OFF)	+	
Fire extinguisher	+	
Front screen made from impact-resistant laminated safety glass - not adjustable	+	
Windscreen retractable (including upper part)	•	
Intermittent windscreen wiper with wiper washer	•	•
Cruise control	•	
Rubber floor mat, removable	•	•
Dome light	•	
Joystick steering	+	
Joysticks Premium	+	
Coat hook	•	
Automatic air conditioning	•	
Fuel consumption indicator	•	
Electric cooler	+	
Steering wheel, wide version (cost-neutral option)	+	
Steering column adjustable horizontally	•	
LiDAT, vehicle fleet management	•	•
Emergency exit rear window	•	
Positioning swing brake	+	
Proportional control	•	
Radio Comfort, control via display with handsfree set	+	
Preparation for radio installation	•	
Rain cover over front window opening	•	
ROPS cab protection	•	
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+	
Amber beacon, on cab, LED double flash	+	
Tinted windows	•	
Windscreen wiper, roof	+	
Windshield wiper, entire windscreen	•	•
Door with sliding window	•	
FOPS top guard	+	
FGPS front guard	+	
Right side window and windshield made from laminated safety glass	•	
Sun visor	+	
Sun blind	•	
Auxiliary heating, adjustable (week time switch)	+	
Left control console, folding	•	
Electronic immobilizer	+	
Cigarette lighter	•	

## **Equipment**

Boom lights, 2 pieces, halogen	•
Boom lights, 2 pieces, LED	+
Stick lights, 2 pieces, LED	+
High pressure circuit incl. unpressurised return line and Tool Control	+
Electronic lift limitation	•
Security for hoist cylinder for hydraulic attachments	+
Load holding valve tipping cylinder	+
Load lug on stick	+
Leak oil line, additional for attachments	+
Liebherr ditch cleaning bucket	+
Liebherr quick coupler, hydraulic or mechanical	+
Liebherr tilt bucket	+
Liebherr tiltrotator	+
Liebherr sorting grab	+
Liebherr backhoe bucket	+
Liebherr tooth system	+
Liebherr clamshell grab	+
Medium pressure circuit incl. lines	+
Mono boom, HD version	+
Pipe fracture safety valves hoist cylinders	•
Pipe fracture safety valve stick cylinder	•
Return line, pressureless (in high pressure circuit option included)	+
Hose quick coupling at end of stick	•
Quick coupling system Solidlink	+
Protection for bottom side of stick	+
Tool Control, 20 attachment adjustments selectable over the display	+
Overload warning device	•
Two-piece boom, HD version	+

### **S** Complete machine

Lubrication	
Lubrication undercarriage, manually – decentralised (grease points)	•
Lubrication undercarriage, manually – centralised (one grease point)	+
Central lubrication system for uppercarriage and equipment, automatically	
(without quick coupler and connecting link)*	•
Centralised lubrication extended for quick coupler	+
Centralised lubrication extended for connecting link	+
Special coating	
Custom painting for attachments	+
Special coating, variants	+
Monitoring	
Rear view monitoring with camera	•
Side view monitoring with camera	•
Skyview 360° (side camera not available)	+

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

<sup>• =</sup> Standard, + = Option
\* = country-dependent

### **The Liebherr Group**



#### Global and independent: more than 70 years of success

Liebherr was founded in 1949 when, with the development of the world's first mobile tower crane, Hans Liebherr laid the foundations for a family-run company which now has more than 50,000 employees and comprises over 150 companies across every continent. The holding company of the Group is Liebherr-International AG in Bulle, Switzerland, whose shareholders are exclusively members of the Liebherr family.

#### Technology leadership and pioneering spirit

Liebherr is a pioneer and its forward-looking approach has seen it make important contributions to technology history over a wide variety of industries. Employees throughout the world continue to share the courage of the company founder, sharing a passion to produce innovative products and a determination to provide world-leading equipment and machinery.

#### Diversified product programme

Liebherr is one of the world's biggest construction machine manufacturers and provides high-quality, user-oriented products and services. Its product programme includes earthmoving machinery, material handling technology, deep foundation machines, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

#### Customised solutions and maximum customer value

Liebherr solutions are characterised by precision, implementation and longevity. The company is committed to technological excellence and to providing customers with solutions that match their needs exactly. For Liebherr, customer focus does not end with delivery of a product but continues through a comprehensive range of back-up and support services.

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