

Wheeled Excavator

A 912_{compact}
Litronic®

Operating Weight: 12,500 – 13,800 kg

Engine Output: 80 kW / 109 HP

Bucket Capacity: 0.15 – 0.48 m³



LIEBHERR

Technical Data



Engine

Rating per ISO 9249	80 kW (109 HP) at 1,800 RPM
Model	Deutz TCD3.6L4/stage IIIB
Type	4 cylinder in-line
Bore/Stroke	98/120 mm
Displacement	3.6 l
Engine operation	4-stroke diesel
	common-rail-injection
	turbo-charged and after-cooler
	reduced emissions
Harmful emissions values	in accordance with 97/68/EG stage IIIB
Emission control	oxidation catalyst
Option	Deutz particle filter
Cooling system	water-cooled and integrated motor oil cooler
Air cleaner	dry-type air cleaner with pre-cleaner, main and safety elements
Fuel tank	200 l
Engine idling	sensor controlled
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah/12 V
Alternator	three phase current 28 V/80 A



Hydraulic System

Hydraulic pump	Liebherr, variable displacement, swashplate pump
Max. flow	195 l/min.
Max. hydr. pressure	350 bar
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic horsepower regulation, pressure cut-off, load sensing and torque controlled swing drive priority
Hydraulic tank capacity	100 l
Hydraulic system capacity	max. 210 l
Filtration	main return filter with integrated partial micro filtration (5 µm)
Cooling system	compact cooling system comprising cooling unit for water, hydraulic oil and charge air with stepless, thermostatically controlled fan
MODE selection	adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
Engine speed and performance setting	stepless alignment of engine output and hydraulic power via engine speed



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	electroproportional via foot pedal
Additional functions	via switch and/or electroproportional foot pedals
Option	proportional control, proportionally acting transmitters on the joysticks for additional hydraulic functions



Swing Drive

Drive	Liebherr swashplate motor with torque control and integrated brake valve
Transmission	Liebherr compact planetary gear
Swing ring	Liebherr sealed single race ball bearing swing ring, internal teeth
Swing speed	0 – 10.0 RPM stepless
Swing torque	29 kNm
Brake	holding brake (spring applied – pressure released)
Option	pedal controlled positioning swing brake



Operator's Cab

Cab	ROPS safety cab structure (capable of sweeping over) with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a side window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sounddamping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen
Operator's seat Standard	air cushioned operator's seat with headrest, lap belt, seat heater, manual weight adjustment, adjustable seat cushion inclination and length and mechanical lumbar vertebrae support
Operator's seat Comfort (Option)	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 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
Control system	joysticks with arm consoles and swivel seat
Operation and displays	large high-resolution operating unit, selfexplanatory, with touchscreen function, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and tool 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 (country-dependent)



Undercarriage

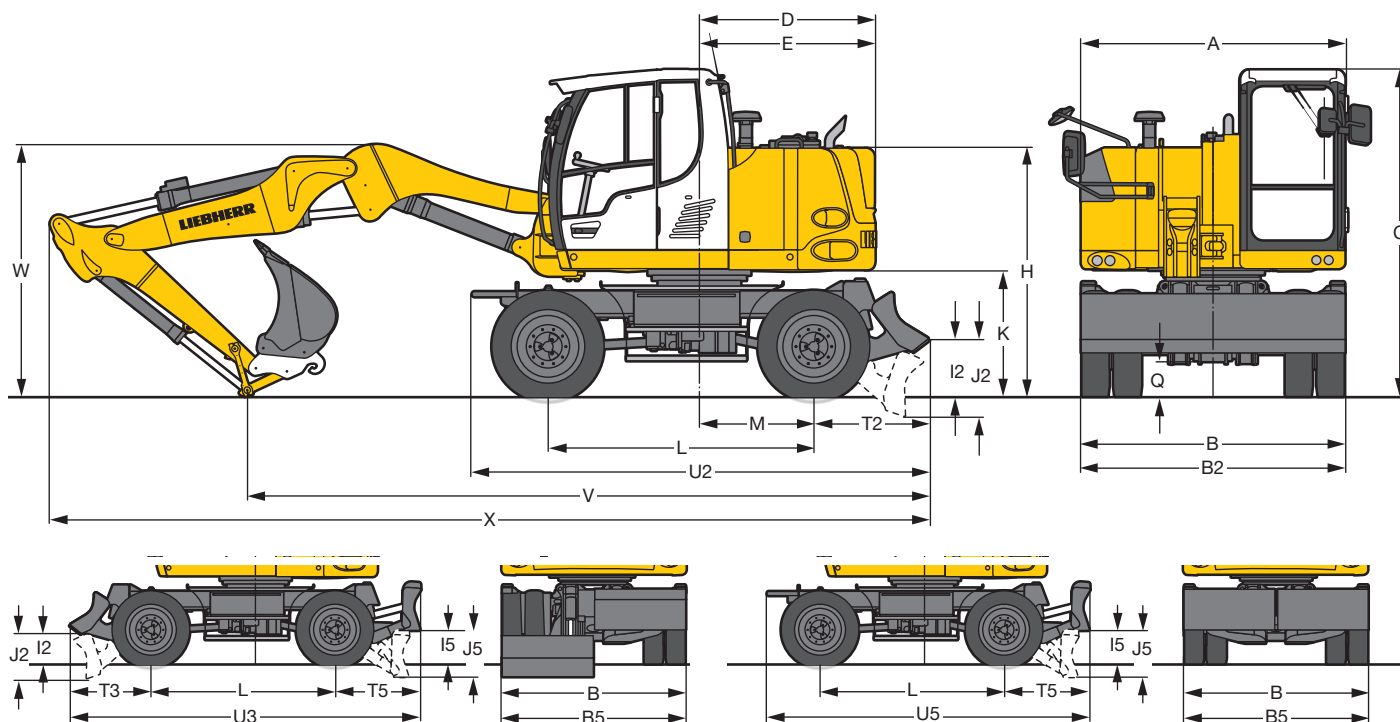
Drive	variable flow swashplate motor with automatic brake valve
Transmission	oversized two speed power shift transmission with additional creeper speed
Pulling force	84 kN
Travel speed	0 – 3.5 km/h (creeper speed off road) 0 – 7.0 km/h (off road) 0 – 13.0 km/h (creeper speed on road) 0 – 20.0 km/h (road travel) 0 – max. 25.0 km/h or 30.0 km/h Speeder (Option)
Driving operation	automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions, both off-road and on-road
Axes	automatic or operator controlled hydraulic 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	stabilizing blade (adjustable during travel for dozing) 2 point outriggers stabilizing blade + 2 point outriggers divided blade stabilizing blade + divided blade



Attachment

Hydraulic cylinders	Liebherr cylinders with special seal system. Shock absorption
Bearings	sealed, low maintenance
Lubrication	Liebherr central lubrication system (country-dependent)

Dimensions



	mm
A	2,520
B	2,550
B2	2,550
B5	2,550
C	3,130
D	1,675
E	1,675
H	2,383
I2	422
I5	470
J2	628
J5	650
K	1,211
L	2,540
M	1,100
Q	340
T2	1,100
T3	1,123
T5	1,172
U2	4,370
U3	4,835
U5	4,443

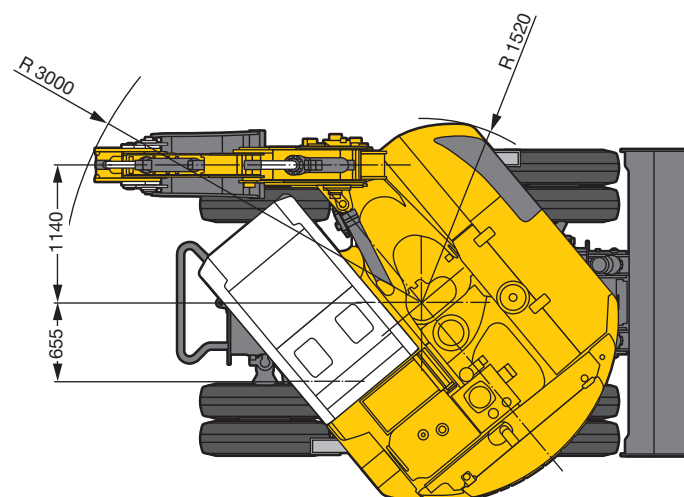
E = Tail radius
Tires 9.00-20

	m	Two-piece Boom 2.35 m		
		stabilizing blade	divided blade	stabilizing blade + divided blade
		mm	mm	mm
V	1.85	6,500	6,600	6,600
	2.05	6,200	6,250	6,250
W	1.85	2,550	2,550	2,550
	2.05	2,550	2,550	2,550
X	1.85	8,550	8,600	8,600
	2.05	8,550	8,600	8,600

Dimensions are with attachment over steering axle

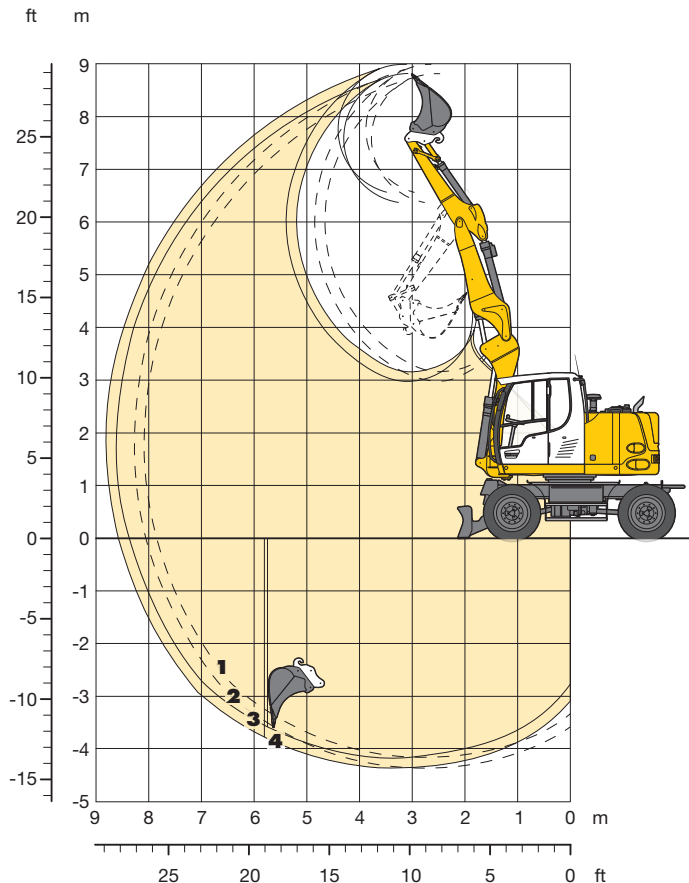
Min. turning radius on tires 9.00-20

4 steer	front wheel steer
4.73 m	6.60 m



Backhoe Bucket

with Two-piece Boom 2.35 m



Digging Envelope with Quick Coupler

		3	4
Stick length	m	1.85	2.05
Max. digging depth	m	4.15	4.35
Max. reach at ground level	m	8.35	8.55
Max. dumping height	m	6.40	6.55
Max. teeth height	m	8.80	9.00
Min. attachment radius	m	3.45	3.45

- 1 with stick 1.85 m at max. attachment offset
2 with stick 2.05 m at max. attachment offset

Digging Forces without Quick Coupler

		3	4
Max. digging force (ISO 6015)	kN	55.3	51.3
	t	5.6	5.2
Max. breakout force (ISO 6015)	kN	96.6	96.6
	t	9.8	9.8

Operating Weight

The operating weight includes the basic machine with 8 tires plus intermediate rings, two-piece boom 2.35 m, stick 2.05 m, quick coupler 33 and bucket 750 mm/0.33 m³.

Undercarriage versions	Weight
A 912 Compact Litronic [®] with stabilizer blade	12,500 kg
A 912 Compact Litronic [®] with divided blade	12,900 kg
A 912 Compact Litronic [®] with stab. blade + divided blade	13,600 kg

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m³	Weight kg	Stabilizers raised		Divided blade down		Stabilizer blade + divided blade down	
			Stick length (m)		Stick length (m)		Stick length (m)	
			1.85	2.05	1.85	2.05	1.85	2.05
300 ²⁾	0.15	160	□	□	□	□	□	□
400 ²⁾	0.20	190	□	□	□	□	□	□
450 ²⁾	0.20	170	□	□	□	□	□	□
550 ²⁾	0.22	190	□	□	□	□	□	□
650 ²⁾	0.27	210	□	□	□	□	□	□
750 ²⁾	0.33	230	□	□	□	□	□	□
850 ²⁾	0.38	240	□	□	□	□	□	□
950 ²⁾	0.44	270	□	△	□	□	□	□
300 ³⁾	0.15	150	□	□	□	□	□	□
400 ³⁾	0.21	180	□	□	□	□	□	□
450 ³⁾	0.21	160	□	□	□	□	□	□
550 ³⁾	0.24	190	□	□	□	□	□	□
650 ³⁾	0.30	210	□	□	□	□	□	□
750 ³⁾	0.35	220	□	□	□	□	□	□
850 ³⁾	0.42	240	□	□	□	□	□	□
950 ³⁾	0.48	270	△	△	□	□	□	□

* 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

¹⁾ comparable with SAE (heaped)

²⁾ Bucket with teeth (also available in HD version) ³⁾ Bucket with cutting edge (also available in HD version)

Buckets up to 400 mm cutting width with limited digging depth

Max. material weight □ = ≤ 1.8 t/m³, △ = ≤ 1.5 t/m³, ■ = ≤ 1.2 t/m³, ▲ = not authorized

Lift Capacities

with Two-piece Boom 2.35 m

Stick 1.85 m

 m	Undercarriage	 2.0 m		 3.0 m		 4.0 m		 5.0 m		 6.0 m		 7.0 m		 m	
7.0	Stabilizers raised													2.0	2.3*
	Divided blade down													2.3*	2.3*
	Stabilizer blade + divided blade down													2.3*	2.3*
6.0	Stabilizers raised							2.1	2.7*	1.5	2.2*			1.4	1.9*
	Divided blade down							2.4*	2.7*	1.7	2.2*			1.6	1.9*
	Stabilizer blade + divided blade down							2.7*	2.7*	2.1	2.2*			1.9*	1.9*
5.0	Stabilizers raised							2.1	2.8*	1.5	2.7*			1.1	1.8*
	Divided blade down							2.3	2.8*	1.7	2.7*			1.3	1.8*
	Stabilizer blade + divided blade down							2.8*	2.8*	2.2	2.7*			1.7	1.8*
4.0	Stabilizers raised					2.8	3.2*	2.0	3.2*	1.5	2.7	1.1	2.1	1.0	1.8*
	Divided blade down					3.2*	3.2*	2.3	3.2*	1.7	2.8*	1.3	2.4*	1.2	1.8*
	Stabilizer blade + divided blade down					3.2*	3.2*	2.8	3.2*	2.2	2.8*	1.6	2.4*	1.5	1.8*
3.0	Stabilizers raised			4.2	6.4*	2.7	5.0	2.0	3.5	1.5	2.7	1.1	2.1	0.9	1.8*
	Divided blade down			4.8	6.4*	3.1	5.0*	2.3*	3.7*	1.7	3.1*	1.3	2.7*	1.1	1.8*
	Stabilizer blade + divided blade down			6.1	6.4*	3.9*	5.0*	2.8	3.7*	2.1	3.1*	1.6	2.7*	1.4	1.8*
2.0	Stabilizers raised			4.1	6.8*	2.7	4.9	2.0	3.5*	1.5	2.7	1.1	2.1	0.9	1.8
	Divided blade down			4.7	6.8*	3.1	5.8*	2.2	4.2*	1.7	3.3*	1.2	2.7*	1.0	1.9*
	Stabilizer blade + divided blade down			6.0	6.8*	3.8	5.8*	2.7	4.2*	2.1	3.3*	1.6	2.7*	1.3	1.9*
1.0	Stabilizers raised	3.0*	3.0*	3.8	7.9*	2.5	4.9	1.9	3.5	1.4	2.7	1.0	2.1	0.9	1.8
	Divided blade down	3.0*	3.0*	4.4	7.9*	2.9	6.1*	2.1	4.4*	1.6	3.4*	1.2	2.8*	1.0	2.0*
	Stabilizer blade + divided blade down	3.0*	3.0*	5.8	7.9*	3.7	6.1*	2.7	4.4*	2.0	3.4*	1.5	2.8*	1.3	2.0*
0	Stabilizers raised	4.7*	4.7*	3.6	8.0	2.4	4.9	1.8	3.4	1.3	2.6	1.0	2.0	0.9	1.8
	Divided blade down	4.7*	4.7*	4.2	8.3*	2.8	6.2*	2.0	4.4*	1.5	3.4*	1.2	2.8*	1.1	2.2*
	Stabilizer blade + divided blade down	4.7*	4.7*	5.6	8.3*	3.6	6.2*	2.6	4.4*	2.0	3.4*	1.5	2.8*	1.4	2.2*
-1.0	Stabilizers raised	6.4*	6.4*	3.6	7.9	2.3	4.8	1.7	3.4	1.3	2.5	1.0	2.0	1.0	2.0
	Divided blade down	6.4*	6.4*	4.2	10.2*	2.7	6.3*	2.0	4.5*	1.5	3.5*	1.1	2.3*	1.1	2.3*
	Stabilizer blade + divided blade down	6.4*	6.4*	5.5	10.2*	3.5	6.3*	2.5	4.5*	1.9	3.5*	1.5	2.3*	1.5	2.3*
-2.0	Stabilizers raised	7.4	8.1*	3.6	8.0	2.3	4.8	1.6	3.3	1.2	2.5			1.1	2.1*
	Divided blade down	8.1*	8.1*	4.2	10.4*	2.7	6.4*	1.9	4.3*	1.4	2.8*			1.3	2.1*
	Stabilizer blade + divided blade down	8.1*	8.1*	5.6	10.4*	3.5	6.4*	2.5	4.3*	1.9	2.8*			1.7	2.1*
-3.0	Stabilizers raised	7.6	8.9*	3.6	8.1	2.3	4.7*							1.7	2.8*
	Divided blade down	8.9*	8.9*	4.2	8.1*	2.7	4.7*							2.0	2.8*
	Stabilizer blade + divided blade down	8.9*	8.9*	5.6	8.1*	3.5	4.7*							2.5	2.8*

Stick 2.05 m

 m	Undercarriage	 2.0 m		 3.0 m		 4.0 m		 5.0 m		 6.0 m		 7.0 m		 m	
7.0	Stabilizers raised							2.0	2.4*					1.8	2.0*
	Divided blade down							2.3	2.4*					2.0*	2.0*
	Stabilizer blade + divided blade down							2.4*	2.4*					2.0*	2.0*
6.0	Stabilizers raised							2.1	2.5*	1.5	2.2*			1.3	1.7*
	Divided blade down							2.4	2.5*	1.7	2.2*			1.5	1.7*
	Stabilizer blade + divided blade down							2.5*	2.5*	2.1	2.2*			1.7*	1.7*
5.0	Stabilizers raised							2.1	2.5*	1.5	2.5*	1.1	1.8*	1.1	1.6*
	Divided blade down							2.3	2.5*	1.7	2.5*	1.3	1.8*	1.2	1.6*
	Stabilizer blade + divided blade down							2.5*	2.5*	2.2	2.5*	1.6	1.8*	1.6	1.6*
4.0	Stabilizers raised					2.6*	2.6*	2.0	2.8*	1.6	2.7	1.1	2.1	0.9	1.6*
	Divided blade down					2.6*	2.6*	2.3*	2.8*	1.8	2.7*	1.3	2.4*	1.1	1.6*
	Stabilizer blade + divided blade down					2.6*	2.6*	2.8	2.8*	2.1	2.7*	1.6*	2.4*	1.4	1.6*
3.0	Stabilizers raised			4.2	6.1*	2.7	4.8*	2.0	3.5	1.5	2.7	1.1	2.1	0.9	1.6*
	Divided blade down			4.8	6.1*	3.1	4.8*	2.3	3.6*	1.7	3.0*	1.3	2.6*	1.0	1.6*
	Stabilizer blade + divided blade down			6.1*	6.1*	3.9*	4.8*	2.8	3.6*	2.1	3.0*	1.6	2.6*	1.3	1.6*
2.0	Stabilizers raised	3.4*	3.4*	4.1	6.7*	2.7	4.9	2.0	3.5	1.5	2.7*	1.1	2.1	0.8	1.7*
	Divided blade down	3.4*	3.4*	4.7	6.7*	3.1	5.8*	2.2	4.1*	1.7	3.2*	1.2	2.7*	1.0	1.7*
	Stabilizer blade + divided blade down	3.4*	3.4*	6.0	6.7*	3.8	5.8*	2.7	4.1*	2.1	3.2*	1.6	2.7*	1.3	1.7*
1.0	Stabilizers raised	3.0*	3.0*	3.9	7.6*	2.6	4.9	1.9	3.5	1.4	2.7	1.0	2.1	0.8	1.7
	Divided blade down	3.0*	3.0*	4.5	7.6*	2.9	6.0*	2.1	4.3*	1.6	3.4*	1.2	2.7*	1.0	1.8*
	Stabilizer blade + divided blade down	3.0*	3.0*	5.9	7.6*	3.8	6.0*	2.7	4.3*	2.0	3.4*	1.6	2.7*	1.3	1.8*
0	Stabilizers raised	4.4*	4.4*	3.6	8.0	2.4	4.9	1.8	3.4	1.3	2.6	1.0	2.0	0.9	1.8
	Divided blade down	4.4*	4.4*	4.2	8.2*	2.8	6.2*	2.0	4.4*	1.5	3.4*	1.2	2.8*	1.0	2.0*
	Stabilizer blade + divided blade down	4.4*	4.4*	5.6	8.2*	3.6	6.2*	2.6	4.4*	2.0	3.4*	1.5	2.8*	1.3	2.0*
-1.0	Stabilizers raised	5.9*	5.9*	3.5	7.9	2.3	4.8	1.7	3.4	1.3	2.5	1.0	2.0	0.9	1.9
	Divided blade down	5.9*	5.9*	4.1	9.7*	2.7	6.3*	2.0	4.4*	1.5	3.5*	1.1	2.5*	1.1	2.2*
	Stabilizer blade + divided blade down	5.9*	5.9*	5.5	9.7*	3.5	6.3*	2.5	4.4*	1.9	3.5*	1.5	2.5*	1.4	2.2*
-2.0	Stabilizers raised	7.3	7.5*	3.5	7.9	2.3	4.8	1.6	3.3	1.2	2.5			1.1	2.1*
	Divided blade down	7.5*	7.5*	4.1	10.5*	2.7	6.4*	1.9	4.5*	1.4	3.1*			1.2	2.1*
	Stabilizer blade + divided blade down	7.5*	7.5*	5.5	10.5*	3.5	6.4*	2.5	4.5*	1.9	3.1*			1.6	2.1*
-3.0	Stabilizers raised	7.5	8.4*	3.6	8.0	2.3	4.7	1.6	3.2*					1.4	2.4*
	Divided blade down	8.4*	8.4*	4.2	8.9*	2.7	5.3*	1.9	3.2*					1.7	2.4*
	Stabilizer blade + divided blade down	8.4*	8.4*	5.6	8.9*	3.5	5.3*	2.5	3.2*					2.2	2.4*

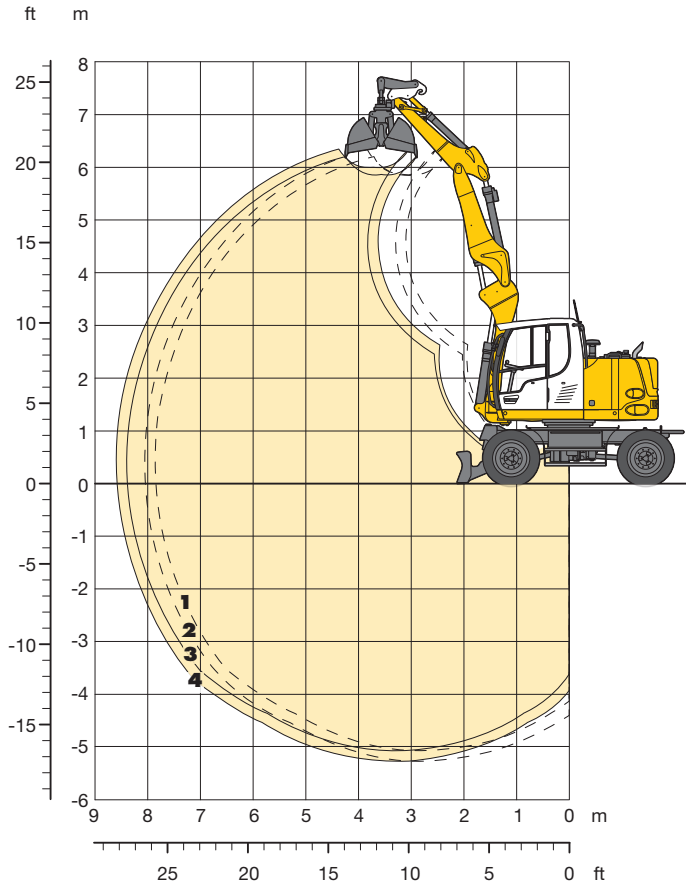
 Height  Can be slewed through 360°  In longitudinal position of undercarriage  Max. reach * Limited by hydr. capacity

The lift capacities on the load hook of the Liebherr quick coupler 33 without working tool 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 comply with 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. 5 t). Without the quick coupler, lift capacities will increase by up to 110 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.

Clamshell Grab

with Two-piece Boom 2.35 m



Digging Envelope with Quick Coupler

3 4

Stick length	m	1.85	2.05
Max. digging depth	m	5.05	5.25
Max. reach at ground level	m	8.40	8.55
Max. dumping height	m	5.85	6.00

1 with stick 1.85 m at max. attachment offset

2 with stick 2.05 m at max. attachment offset

Clamshell Model

GM 5B

Max. tooth force	52 kN (5.3 t)
Max. torque of hydr. swivel	1.40 kNm

Operating Weight

The operating weight includes the basic machine with 8 tires plus intermediate rings, two-piece boom 2.35 m, stick 2.05 m, quick coupler 33 and clamshell model GM 5B/0.20 m³ (600 mm without ejector).

Undercarriage versions	Weight
A 912 Compact Litronic [®] with stabilizer blade	12,800 kg
A 912 Compact Litronic [®] with divided blade	13,200 kg
A 912 Compact Litronic [®] with stab. blade + divided blade	13,800 kg

Clamshell Model GM 5B Machine stability per ISO 10567* (75% of tipping capacity)

Width of shells mm	Capacity m ³	Weight kg	Stabilizers raised		Divided blade down		Stabilizer blade + divided blade down	
			Stick length (m)		Stick length (m)		Stick length (m)	
			1.85	2.05	1.85	2.05	1.85	2.05
300 ¹⁾	0.10	410	□	□	□	□	□	□
400 ¹⁾	0.13	440	□	□	□	□	□	□
600 ¹⁾	0.20	470	□	□	□	□	□	□
800 ¹⁾	0.27	510	□	□	□	□	□	□
300 ²⁾	0.10	450	□	□	□	□	□	□
400 ²⁾	0.13	490	□	□	□	□	□	□

* 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

¹⁾ without ejector

²⁾ with ejector

Max. material weight □ = ≤ 1.8 t/m³, △ = ≤ 1.5 t/m³, ■ = ≤ 1.2 t/m³, ▲ = not authorized

Attachments

Ditch Cleaning Buckets

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m³	Weight kg	Stabilizers raised		Divided blade down		Stabilizer blade + divided blade down	
			Stick length (m)		Stick length (m)		Stick length (m)	
			1.85	2.05	1.85	2.05	1.85	2.05
Two-piece Boom 2.35 m								
1,200 ²⁾	0.29	380	□	□	□	□	□	□
1,300 ⁴⁾	0.28	300	□	□	□	□	□	□
1,500 ⁴⁾	0.33	330	□	□	□	□	□	□
1,500 ³⁾	0.33	210	□	□	□	□	□	□
1,500 ²⁾	0.36	420	□	□	□	□	□	□
1,700 ⁴⁾	0.37	390	□	□	□	□	□	□
1,700 ²⁾	0.41	455	△	△	□	□	□	□
2,000 ³⁾	0.45	270	□	△	□	□	□	□

* 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

¹⁾ comparable with SAE (heaped)

²⁾ with 2 x 50° rotator

³⁾ rigid ditch cleaning bucket

⁴⁾ with 2 x 45° rotator

Max. material weight □ = ≤ 1.8 t/m³, △ = ≤ 1.5 t/m³, ■ = ≤ 1.2 t/m³, ▲ = not authorized

Equipment



Undercarriage

Dual-circuit braking system	•
Four wheel steering (front wheel steering, four wheel steering, crab steering)	+
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	•
Tyres, variants	+
Protection for travel drive	+
Protection for piston rods, stabilizer cylinder	+
Speeder*	+
Tool equipment, extended	+
Tool box left – lockable	•
Tool box right – lockable	+



Uppercarriage

Uppercarriage right side light, 1 piece, LED 1300 lumen	+
Uppercarriage rear light, 2 pieces, halogen	+
Uppercarriage rear light, 2 pieces, LED 1300 lumen	+
Refuelling system with filling pump	+
Main battery switch for electrical system	•
Engine hood with gas spring	•
Warning beacon on uppercarriage	+
Service doors, lockable	•



Hydraulics

Shut-off valve between hydraulic tank and pump(s)	•
Pressure test fittings	•
Accumulator for controlled lowering of the attachment 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	+
Switchover high pressure circuit and tipping cylinder	+
Switchover high pressure circuit and adjustment cylinder (two-piece boom)	+



Engine

Deutz particle filter	+
Fuel anti-theft device	+
Air pre-filter with dust discharge	+
Preheating fuel	+



Operator's Cab

Storage compartment	•
Cab lights rear, halogen	+
Cab lights rear, LED 1300 lumen	+
Cab lights front, halogen (above rain cover)	+
Cab lights front, halogen (under rain cover)	•
Cab lights front, LED 1300 lumen (above rain cover)	+
Cab lights front, LED 1300 lumen (under rain cover)	+
Mechanical hour meters, readable from outside the cab	•
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	+
Windscreen retractable (including upper part)	•
Intermittent windscreen wiper with wiper washer	•
Rubber floor mat, removable	•
Dome light	•

Joystick steering	+
Coat hook	•
Automatic air conditioning**	•
Fuel consumption indicator	•
Electric cooler	+
Steering wheel, wide version (cost-neutral option)	+
Steering column adjustable horizontally	•
LiDAT Plus (extended Liebherr data transfer system)***	•
Automatic engine shut-down (time adjustable)	+
Emergency exit rear window	•
Bullet proof front screen – not adjustable	+
Bullet proof glass (top)	•
Positioning swing brake	+
Proportional control	+
Radio Comfort (control via display)	+
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)	+
Warning beacon on cab	•
All tinted windows	•
Windscreen wiper, roof	+
Door with sliding window	•
Top guard	+
Right side window and windshield made of laminated glass	•
Sun blind	•
Auxiliary heating, adjustable (week time switch)	+
Cruise control	•
Electronic immobilizer	+
Cigarette lighter and ashtray	•



Attachment

Boom lights, 2 pieces, halogen	•
Boom lights, 2 pieces, LED 1300 lumen	+
High pressure circuit incl. lines and Tool Control	+
Electronic lift limitation	+
Load hook on stick	+
Shackle on stick	+
Leak oil line, additional for working tools	+
Liebherr ditch cleaning bucket	+
Liebherr quick coupler, hydraulic or mechanical	+
Liebherr backhoe bucket	+
Liebherr tooth system	+
Liebherr clamshell grab	+
Middle pressure circuit incl. lines	+
Pipe fracture safety valves hoist cylinders	•
Pipe fracture safety valve tipping cylinder	+
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 LIKUFIX	+
Protection for piston rod, tipping cylinder	+
Protection for piston rod, adjusting cylinder	+
Custom painting for tools	+
Tool Control, 10 tool adjustments selectable over the display	+
Overload warning device	•
Protection for stick	+
Two-piece boom	•



Complete Machine

Lubrication	
Lubrication undercarriage, manually – decentralized (grease points)	•
Central lubrication system for uppercarriage and attachment, automatically (without quick coupler and connecting link)**	•
Central lubrication system, extension for quick coupler	+
Central lubrication system, extension for connecting link	+
Special coating	
Single-coloured, grey parts excepted	+
Single-coloured, grey parts included (except power train)	+
Multicoloured (except power train)	+
Monitoring	
Rear view monitoring with camera**	•
Side view monitoring with camera	+

• = Standard, + = Option

* = depending upon the country partially only 25 km/h permitted, ** = country-dependent, *** = optionally extendable after one year

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

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