Machine for Industrial Applications

LH 80 M

Litronic



LIEBHERR

Technical Data

Engine

Rating per ISO 9249	230 kW (313 HP) at 1,700 RPM							
Model	Liebherr D936 according to stage IIIB/Tier 4i							
Туре	6 cylinder in-line							
Bore/Stroke	122/150 mm							
Displacement	10.5 l							
Engine operation	4-stroke diesel							
	Common-Rail							
	turbo-charged and after-cooled							
	reduced emissions							
Harmful emissions values	in accordance with 97/68/EG stage IIIB							
Emission control	Liebherr particle filter							
Cooling	water-cooled with integrated motor oil cooler							
Air cleaner	dry-type air cleaner with pre-cleaner, primary and							
	safety elements							
Fuel tank	910							
Engine idling	sensor controlled							
Electrical system								
Voltage	24 V							
Batteries	2 x 170 Ah/12 V							
Alternator	three phase current 28 V/100 A							

= Tryuraunc	Controls
Power distribution	via control valves in single block with integrated safety valves
Servo circuit	
Attachment and swing	with hydraulic pilot control and proportional joystick
	levers
Travel	electroproportional via foot pedal
Additional functions	via switch or electroproportional foot pedals
Option	proportional control, proportionally acting transmitters
	on the joysticks for additional hydraulic functions

樹 Hydraulic System

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Hydraulic pump	
for attachment	two Liebherr variable flow, swashplate pumps
and travel drive	(double construction)
Max. flow	2 x 350 l/min.
Max. pressure	350 bar
Hydraulic pump	electro-hydraulic with electronic engine speed sensing
regulation and control	regulation, pressure compensation, flow compensa-
	tion, automatic oil flow optimizer
Hydraulic pump	
for swing drive	reversible, variable flow, swashplate pump, closed- loop circuit
Max. flow	185 l/min.
Max. pressure	380 bar
Hydraulic tank	390
Hydraulic system	910
Hydraulic oil filter	2 main return filters with integrated partial micro
,	filtration (5 µm)
Hydraulic oil cooler	cooling system, consisting of a cooling unit for water
	and charge air and a 2 nd cooler for hydraulic oil, each
	with an infinitely variable, thermostatically controlled
	fan drive system
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 material handling and
0 (0 !t!)	heavy-duty jobs
S (Sensitive)	for precision work and lifting through very sensitive
Γ (ΓΟΟ)	movements
E (ECO)	for especially economical and environmentally friendly operation
P (Power)	for maximum digging power and heavy duty jobs
Tool Control (Option)	ten preadjustable pump flows and pressures for add
	on tools

Swing Drive

Drive	Liebherr swashplate motor in a closed system with integrated brake valve
Transmission	Liebherr planetary reduction gear
Swing ring	Liebherr, sealed single race ball bearing swing ring, internal teeth
Swing speed	0 - 6.4 RPM stepless
Swing torque	154 kNm
Brake	holding brake (spring applied – pressure released)
Option	pedal controlled positioning swing brake

Technical Data

□ Uppercarriage

Туре	slewing platform made from high-strength steel plate,
	designed for the toughest requirements

Operator's	s Cab							
Cab	safety cab structure 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 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 hori- zontal 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), pneu- matic low frequency suspension and active seat clima- tisation with active coal and ventilator							
Control system	joysticks with arm consoles and swivel seat							
Operation and displays	large high-resolution operating unit, selfexplanatory, colour display with touchscreen, 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							
Noise emission								
ISO 6396 2000/14/EC	L_{pA} (inside cab) = 71 dB(A) L_{WA} (surround noise) = 105 dB(A)							

•=• Undercarriage

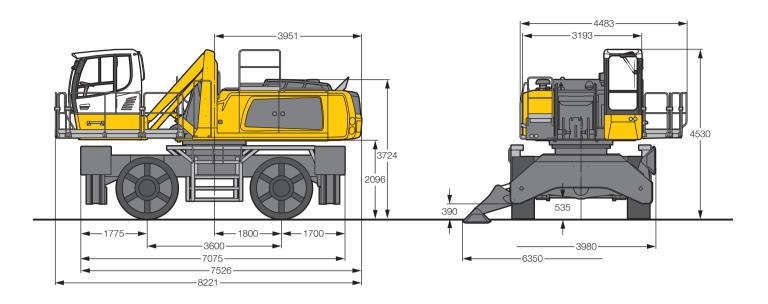
Туре	torsion-resistant box design made from high-strength steel plate, designed for the toughest requirements
Drive	variable flow swashplate motor with automatic brake valve
Travel speed	0 – 10 km/h stepless
Driving operation	automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions
Axles	90 t drive axles; manual or automatic hydraulically controlled front axle oscillation lock
Service brake	two circuit travel brake system with accumulator; maintenance-free, wet and backlash-free disc brake
Holding brake	wet, maintenance-free multi disc brakes
Stabilization	4 point outriggers

Attachment

- , ,	
Туре	high-strength steel plates at highlystressed points for the toughest requirements. Complex and stable mountings of attachment and cylinders
Hydraulic cylinders	Liebherr cylinders with special seal system. Shock absorption
Energy recovering cylinder	Liebherr gas cylinder with special sealing and control system
Bearings	sealed, low maintenance

- *** Combi	ete macilile
Lubrication	central lubrication system for uppercarriage and
	attachment, automatically

Dimensions



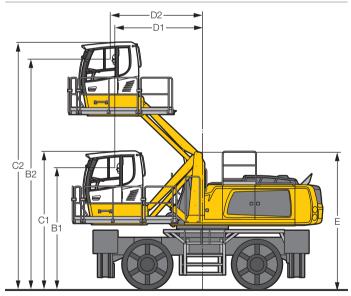
Choice of Cab Elevation

Cab Elevation LFC (Rigid Elevation)

Increase type	LFC 120	LFC 150	LFC 200
Height mm	1,200	1,500	2,000
B mm	4,688	4,988	5,488
C mm	5,230	5,530	6,030
D mm	1,156	1,156	1,156

A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension C is in this machine design for all rigid cab elevations 4,334 mm.

Cab Elevation LHC (Hydraulic Elevation)

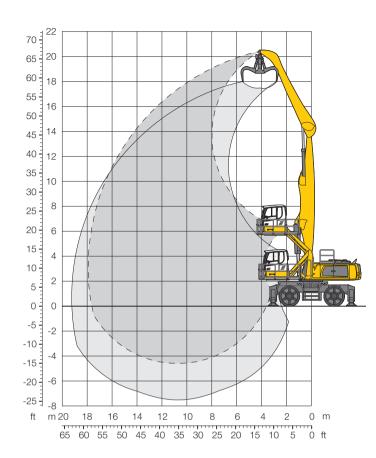


Increase type		LHC 255	LHC 340-35	LHC 360-50
B1	mm	3,487	3,839	3,988
B2	mm	6,034	7,254	7,558
C1	mm	4,030	4,382	4,530
C2	mm	6,577	7,796	8,101
D1	mm	1,711	2,484	2,882
D2	mm	1,837	2,485	3,032
E	mm	3,971	4,361	4,511

The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

Tyres 23.5 x 25

Kinematic 2A



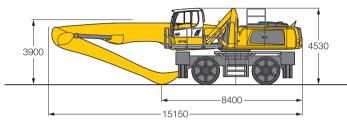
Height - Can be slewed through 360°

Operating Weight

The operating weight includes basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, industrial-type straight mono boom 10.50 m and industrial-type angled stick

with grapple model GMM 80-5/1.70 m³ semi-closed tines

Dimensions



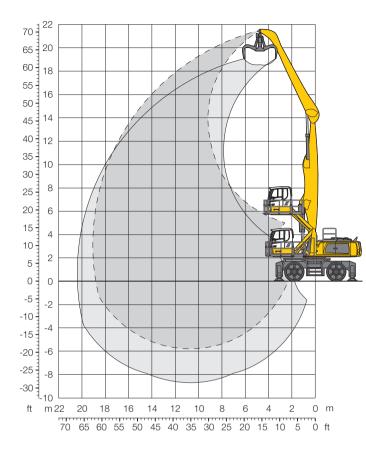
• 0		6.0 m 7.		7.5	m	9.0	m	10.	5 m	12.	0 m	13.	5 m	15.	0 m	16.	5 m	18.0	0 m	19.5	5 m	21.0) m			
↓ / / m	Undercarriage	 ∰	<u>L</u>	• - ∰	<u>L</u>	⊶	<u>L</u>	⊶	<u>L</u>	⊶	<u>L</u>	⊶	d.	⊶	L.		<u>L</u>	⊶	<u>L</u>		<u>L</u>	5	<u>L</u>		<u>L</u>	m
19.5	4 pt. outriggers down	15.0*	15.0*																					12.9*	12.9*	7.1
18.0	4 pt. outriggers down			14.8*	14.8*	12.6*	12.6*																	10.6*	10.6*	9.9
16.5	4 pt. outriggers down			15.7*	15.7*	14.4*	14.4*	12.5*	12.5*															9.5*	9.5*	11.9
15.0	4 pt. outriggers down					15.4*	15.4*	13.8*	13.8*	12.1*	12.1*													8.8*	8.8*	13.4
13.5	4 pt. outriggers down					15.3*	15.3*	13.7*	13.7*	12.5*	12.5*	11.4*	11.4*											8.4*	8.4*	14.6
12.0	4 pt. outriggers down					15.4*	15.4*	13.8*	13.8*	12.5*	12.5*	11.5*	11.5*	10.0*	10.0*									8.1*	8.1*	15.6
10.5	4 pt. outriggers down			17.3*	17.3*	15.7*	15.7*	13.9*	13.9*	12.6*	12.6*	11.5*	11.5*	10.6*	10.6*									7.9*	7.9*	16.3
9.0	4 pt. outriggers down			18.6*	18.6*	16.1*	16.1*	14.2*	14.2*	12.8*	12.8*	11.6*	11.6*	10.7*	10.7*	9.6*	9.6*							7.9*	7.9*	16.9
7.5	4 pt. outriggers down	19.4*	19.4*	19.5*	19.5*	16.7*	16.7*	14.6*	14.6*	13.1*	13.1*	11.8*	11.8*	10.8*	10.8*	9.7	9.8*							7.9*	7.9*	17.4
6.0	4 pt. outriggers down	25.5*	25.5*	20.6*	20.6*	17.4*	17.4*	15.1*	15.1*	13.3*	13.3*	12.0*	12.0*	10.8*	10.8*	9.6	9.8*							7.9*	7.9*	17.7
4.5	4 pt. outriggers down	27.5*	27.5*	21.8*	21.8*	18.1*	18.1*	15.5*	15.5*	13.6*	13.6*	12.1*	12.1*	10.9*	10.9*	9.4	9.7*							8.1*	8.1*	17.9
3.0	4 pt. outriggers down	20.2*	20.2*	22.7*	22.7*	18.7*	18.7*	15.9*	15.9*	13.8*	13.8*	12.2*	12.2*	10.8	10.8*	9.3	9.6*							8.1*	8.1*	17.9
1.5	4 pt. outriggers down	10.5*	10.5*	23.2*	23.2*	19.0*	19.0*	16.1*	16.1*	13.9*	13.9*	12.2*	12.2*	10.6	10.7*	9.2	9.2*							7.6*	7.6*	17.8
0	4 pt. outriggers down	9.0*	9.0*	20.9*	20.9*	18.8*	18.8*	15.9*	15.9*	13.7*	13.7*	11.9*	11.9*	10.3*	10.3*	8.6*	8.6*							7.0*	7.0*	17.6
-1.5	4 pt. outriggers down	9.4*	9.4*	17.8*	17.8*	18.0*	18.0*	15.3*	15.3*	13.1*	13.1*	11.2*	11.2*	9.5*	9.5*	7.6*	7.6*							6.8*	6.8*	17.0
-3.0	4 pt. outriggers down			17.4*	17.4*	16.3*	16.3*	14.0*	14.0*	11.9*	11.9*	10.1*	10.1*	8.2*	8.2*									7.6*	7.6*	15.5
-4.5	4 pt. outriggers down							11.9*	11.9*															10.1*	10.1*	12.0

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In longitudinal position of undercarriage

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.

Kinematic 2A



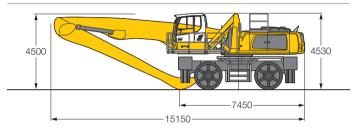
Operating Weight

The operating weight includes basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, industrial-type straight mono boom 10.50 m and industrial-type angled stick 9.00 m.

with grapple model GMM 80-5/1.70 m³ semi-closed tines

76 600 k

Dimensions



Max. reach * Limited by hydr. capacity

•		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.	5 m	15.0	0 m	16.5	5 m	18.0) m	19.5	5 m	21.0) m			1
↓ <i>/</i> / m	Undercarriage		<u>L</u>	 ∰	<u>L</u>	 ∰	L	5	L	5	<u>L</u>	 ∰	<u>L</u>	 ∰	L	<u>5</u>	<u>L</u>	<u>5</u>	<u>L</u>	<u>5</u>	d d	 ∰	L	5	<u>L</u>	m
21.0	4 pt. outriggers down	13.1*	13.1*																					12.4*	12.4*	6.4
19.5	4 pt. outriggers down			12.9*	12.9*	10.9*	10.9*																	9.6*	9.6*	9.7
18.0	4 pt. outriggers down					12.6*	12.6*	10.9*	10.9*															8.4*	8.4*	11.9
16.5	4 pt. outriggers down					13.3*	13.3*	12.2*	12.2*	10.6*	10.6*	7.9*	7.9*											7.7*	7.7*	13.6
15.0	4 pt. outriggers down							13.0*	13.0*	11.9*	11.9*	10.1*	10.1*											7.2*	7.2*	14.9
13.5	4 pt. outriggers down							12.9*	12.9*	11.8*	11.8*	10.9*	10.9*	9.3*	9.3*									6.9*	6.9*	16.0
12.0	4 pt. outriggers down							12.9*	12.9*	11.8*	11.8*	10.8*	10.8*	10.1*	10.1*	7.9*	7.9*							6.7*	6.7*	16.9
10.5	4 pt. outriggers down					14.6*	14.6*	13.1*	13.1*	11.9*	11.9*	10.9*	10.9*	10.1*	10.1*	9.4*	9.4*							6.6*	6.6*	17.6
9.0	4 pt. outriggers down					15.1*	15.1*	13.4*	13.4*	12.1*	12.1*	11.0*	11.0*	10.2*	10.2*	9.4*	9.4*	7.1*	7.1*					6.5*	6.5*	18.2
7.5	4 pt. outriggers down			15.8*	15.8*	15.7*	15.7*	13.8*	13.8*	12.4*	12.4*	11.2*	11.2*	10.3*	10.3*	9.4*	9.4*	8.4	8.5*					6.5*	6.5*	18.6
6.0	4 pt. outriggers down	16.6*	16.6*	19.3*	19.3*	16.4*	16.4*	14.3*	14.3*	12.7*	12.7*	11.4*	11.4*	10.4*	10.4*	9.5*	9.5*	8.3	8.6*					6.6*	6.6*	18.9
4.5	4 pt. outriggers down	25.5*	25.5*	20.5*	20.5*	17.2*	17.2*	14.8*	14.8*	13.0*	13.0*	11.6*	11.6*	10.5*	10.5*	9.5	9.5*	8.2	8.5*					6.7*	6.7*	19.0
3.0	4 pt. outriggers down	27.4*	27.4*	21.6*	21.6*	17.9*	17.9*	15.3*	15.3*	13.3*	13.3*	11.8*	11.8*	10.6*	10.6*	9.3	9.5*	8.0	8.4*					6.8*	6.8*	19.1
1.5	4 pt. outriggers down	17.8*	17.8*	22.4*	22.4*	18.4*	18.4*	15.6*	15.6*	13.5*	13.5*	11.9*	11.9*	10.5*	10.5*	9.1	9.3*	7.9	8.1*					6.9*	6.9*	19.0
0	4 pt. outriggers down	11.1*	11.1*	22.7*	22.7*	18.6*	18.6*	15.7*	15.7*	13.5*	13.5*	11.8*	11.8*	10.3	10.3*	8.9	9.0*	7.5*	7.5*					6.4*	6.4*	18.8
-1.5	4 pt. outriggers down	10.0*	10.0*	20.7*	20.7*	18.3*	18.3*	15.4*	15.4*	13.2*	13.2*	11.5*	11.5*	9.9*	9.9*	8.4*	8.4*	6.6*	6.6*					5.9*	5.9*	18.4
-3.0	4 pt. outriggers down	10.2*	10.2*	18.1*	18.1*	17.3*	17.3*	14.7*	14.7*	12.5*	12.5*	10.8*	10.8*	9.1*	9.1*	7.4*	7.4*							6.4*	6.4*	17.3
-4.5	4 pt. outriggers down			17.8*		15.5*	15.5*	13.2*	13.2*	11.3*	11.3*	9.5*	9.5*	7.8*	7.8*									7.3*	7.3*	15.4

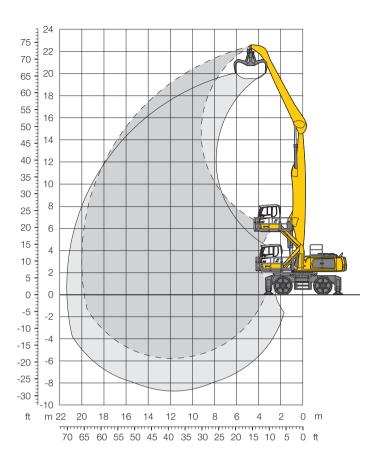
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In longitudinal position of undercarriage

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.

Height - Can be slewed through 360°

Kinematic 2A



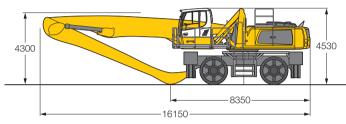
Operating Weight

The operating weight includes basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, industrial-type straight mono boom 11.50 m and industrial-type angled stick 9.00 m.

with grapple model GMM 80-5/1.70 m³ semi-closed tines

77 200 k

Dimensions



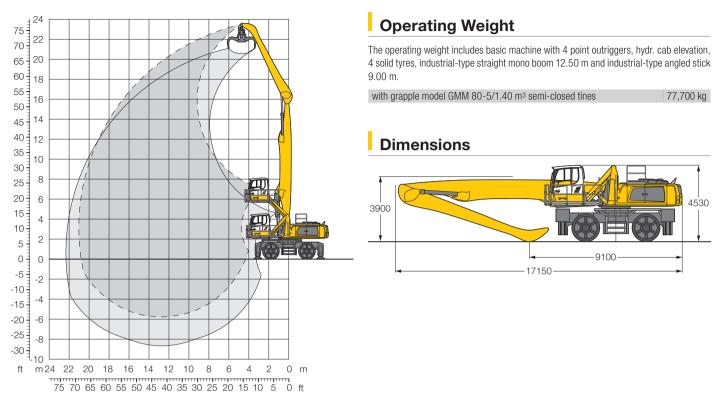
A (2)		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.	5 m	15.0) m	16.5	i m	18.0) m	19.5	5 m	21.0) m	_		La
↓ <i>/</i> / m	Undercarriage	 5	L	<u>⊶</u> 5_	L	 ∰	<u>L</u>	 ∰	<u>L</u>	 -∰	L	<u>⊶</u> 5_	<u>L</u>		<u>L</u>	5	Ŀ	<u>⊶</u> 5	<u>L</u>	<u>⊶</u> 5	<u>L</u>		<u>L</u>	 -∰	<u>L</u>	m
21.0	4 pt. outriggers down			12.5*	12.5*																			10.3*	10.3*	8.9
19.5	4 pt. outriggers down					12.3*	12.3*	10.5*	10.5*															8.8*	8.8*	11.5
18.0	4 pt. outriggers down					13.1*	13.1*	12.0*	12.0*	10.4*	10.4*													7.9*	7.9*	13.4
16.5	4 pt. outriggers down							12.8*	12.8*	11.6*	11.6*	10.1*	10.1*											7.4*	7.4*	14.9
15.0	4 pt. outriggers down							12.7*	12.7*	11.5*	11.5*	10.5*	10.5*	9.5*	9.5*									7.1*	7.1*	16.1
13.5	4 pt. outriggers down							12.7*	12.7*	11.5*	11.5*	10.4*	10.4*	9.6*	9.6*	8.5*	8.5*							6.8*	6.8*	17.2
12.0	4 pt. outriggers down					14.4*	14.4*	12.8*	12.8*	11.5*	11.5*	10.5*	10.5*	9.6*	9.6*	8.9*	8.9*							6.7*	6.7*	18.0
10.5	4 pt. outriggers down					14.8*	14.8*	13.0*	13.0*	11.7*	11.7*	10.6*	10.6*	9.6*	9.6*	8.9*	8.9*	8.2*	8.2*					6.6*	6.6*	18.6
9.0	4 pt. outriggers down			15.1*	15.1*	15.2*	15.2*	13.3*	13.3*	11.9*	11.9*	10.7*	10.7*	9.7*	9.7*	8.9*	8.9*	8.2*	8.2*					6.5*	6.5*	19.2
7.5	4 pt. outriggers down	15.0*	15.0*	17.5*	17.5*	15.7*	15.7*	13.7*	13.7*	12.1*	12.1*	10.8*	10.8*	9.8*	9.8*	9.0*	9.0*	8.2*	8.2*	6.8*	6.8*			6.5*	6.5*	19.6
6.0	4 pt. outriggers down	22.3*	22.3*	19.5*	19.5*	16.3*	16.3*	14.1*	14.1*	12.4*	12.4*	11.0*	11.0*	9.9*	9.9*	9.0*	9.0*	8.0	8.2*	6.9	7.3*			6.6*	6.6*	19.8
4.5	4 pt. outriggers down	25.9*	25.9*	20.5*	20.5*	16.9*	16.9*	14.4*	14.4*	12.6*	12.6*	11.2*	11.2*	10.0*	10.0*	9.0*	9.0*	7.9	8.1*	6.8	7.1*			6.5	6.7*	20.0
3.0	4 pt. outriggers down	15.7*	15.7*	21.2*	21.2*	17.4*	17.4*	14.8*	14.8*	12.8*	12.8*	11.3*	11.3*	10.0*	10.0*	8.9	9.0*	7.7	8.0*	6.7	6.9*			6.4*	6.4*	20.0
1.5	4 pt. outriggers down	7.7*	7.7*	21.6*	21.6*	17.7*	17.7*	14.9*	14.9*	12.9*	12.9*	11.3*	11.3*	10.0*	10.0*	8.7	8.9*	7.6	7.8*	6.5*	6.5*			6.0*	6.0*	20.0
0	4 pt. outriggers down	6.5*	6.5*	14.8*	14.8*	17.6*	17.6*	14.9*	14.9*	12.8*	12.8*	11.2*	11.2*	9.8*	9.8*	8.5	8.6*	7.4*	7.4*	5.9*	5.9*			5.5*	5.5*	19.8
-1.5	4 pt. outriggers down	6.7*	6.7*	12.6*	12.6*	17.0*	17.0*	14.4*	14.4*	12.4*	12.4*	10.8*	10.8*	9.4*	9.4*	8.1*	8.1*	6.8*	6.8*					5.0*	5.0*	19.4
-3.0	4 pt. outriggers down	7.5*	7.5*	12.3*	12.3*	15.8*	15.8*	13.6*	13.6*	11.7*	11.7*	10.1*	10.1*	8.7*	8.7*	7.3*	7.3*	5.7*	5.7*					5.4*	5.4*	18.3
-4.5	4 pt. outriggers down			12.7*		13.9*	13.9*	12.1*	12.1*	10.5*	10.5*	9.0*	9.0*	7.5*	7.5*									6.2*	6.2*	16.4

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

🕯 In longitudinal position of undercarriage

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.

Kinematic 2A



A A		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.	5 m	15.0) m	16.5	5 m	18.0) m	19.	5 m	21.0) m	7		L
↓ / / m	Undercarriage	<u></u> 50	<u>L</u>	 ∰	<u>L</u>	<u>⊶</u>	<u>L</u>	 ∰	<u>L</u>		<u>L</u>	- -	L L	 -∰	<u>L</u>	5	<u>L</u>		<u>L</u>	 ∰	L L		<u>L</u>		<u>j</u>	m
24.0	4 pt. outriggers down																									
22.5	4 pt. outriggers down			11.9*	11.9*																			11.2*	11.2*	7.9
21.0	4 pt. outriggers down			13.3*	13.3*	12.0*	12.0*	10.0*	10.0*															9.2*	9.2*	11.0
19.5	4 pt. outriggers down					12.9*	12.9*	11.8*	11.8*	10.2*	10.2*													8.2*	8.2*	13.1
18.0	4 pt. outriggers down					13.4*	13.4*	12.7*	12.7*	11.3*	11.3*	10.0*	10.0*											7.6*	7.6*	14.8
16.5	4 pt. outriggers down							12.6*	12.6*	11.2*	11.2*	10.1*	10.1*	9.3*	9.3*									7.2*	7.2*	16.2
15.0	4 pt. outriggers down							12.6*	12.6*	11.2*	11.2*	10.1*	10.1*	9.2*	9.2*	8.5*	8.5*							6.9*	6.9*	17.3
13.5	4 pt. outriggers down					14.3*	14.3*	12.6*	12.6*	11.2*	11.2*	10.1*	10.1*	9.2*	9.2*	8.4*	8.4*	7.5*	7.5*					6.7*	6.7*	18.3
12.0	4 pt. outriggers down					14.6*	14.6*	12.7*	12.7*	11.3*	11.3*	10.1*	10.1*	9.2*	9.2*	8.4*	8.4*	7.7*	7.7*					6.6*	6.6*	19.1
10.5	4 pt. outriggers down					14.9*	14.9*	12.9*	12.9*	11.4*	11.4*	10.2*	10.2*	9.3*	9.3*	8.4*	8.4*	7.7*	7.7*	6.9	7.0*			6.5*	6.5*	19.7
9.0	4 pt. outriggers down			16.3*	16.3*	15.2*	15.2*	13.2*	13.2*	11.6*	11.6*	10.3*	10.3*	9.3*	9.3*	8.5*	8.5*	7.7*	7.7*	6.9	7.0*			6.4	6.5*	20.2
7.5	4 pt. outriggers down	18.2*	18.2*	18.8*	18.8*	15.7*	15.7*	13.4*	13.4*	11.8*	11.8*	10.5*	10.5*	9.4*	9.4*	8.5*	8.5*	7.7*	7.7*	6.8	7.0*			6.1	6.4*	20.6
6.0	4 pt. outriggers down	24.7*	24.7*	19.5*	19.5*	16.1*	16.1*	13.7*	13.7*	12.0*	12.0*	10.6*	10.6*	9.5*	9.5*	8.5*	8.5*	7.7*	7.7*	6.7	6.9*			5.9	6.1*	20.8
4.5	4 pt. outriggers down	16.6*	16.6*	20.1*	20.1*	16.5*	16.5*	14.0*	14.0*	12.1*	12.1*	10.7*	10.7*	9.5*	9.5*	8.5*	8.5*	7.6	7.7*	6.6	6.8*			5.7	5.8*	21.0
3.0	4 pt. outriggers down	5.2*	5.2*	20.0*	20.0*	16.8*	16.8*	14.2*	14.2*	12.2*	12.2*	10.7*	10.7*	9.5*	9.5*	8.5*	8.5*	7.4	7.6*	6.4	6.7*	5.5*	5.5*	5.5*	5.5*	21.0
1.5	4 pt. outriggers down	3.7*	3.7*	10.7*	10.7*	16.8*	16.8*	14.2*	14.2*	12.2*	12.2*	10.7*	10.7*	9.4*	9.4*	8.2	8.3*	7.2	7.4*	6.3	6.4*			5.1*	5.1*	20.9
0	4 pt. outriggers down	3.9*	3.9*	8.6*	8.6*	16.4*	16.4*	13.9*	13.9*	12.0*	12.0*	10.5*	10.5*	9.2*	9.2*	8.0	8.1*	7.0	7.1*	6.0*	6.0*			4.7*	4.7*	20.8
-1.5	4 pt. outriggers down	4.6*	4.6*	8.4*	8.4*	15.6*	15.6*	13.3*	13.3*	11.5*	11.5*	10.0*	10.0*	8.8*	8.8*	7.6*	7.6*	6.5*	6.5*	5.3*	5.3*			4.2*	4.2*	20.4
-3.0	4 pt. outriggers down			8.8*	8.8*	14.1*	14.1*	12.3*	12.3*	10.7*	10.7*	9.4*	9.4*	8.1*	8.1*	7.0*	7.0*	5.8*	5.8*					4.6*	4.6*	19.3
-4.5	4 pt. outriggers down					12.1*	12.1*	10.8*	10.8*	9.5*	9.5*	8.3*	8.3*	7.1*	7.1*	5.9*	5.9*							5.2*	5.2*	17.4
-6.0																										
						P								_		_										

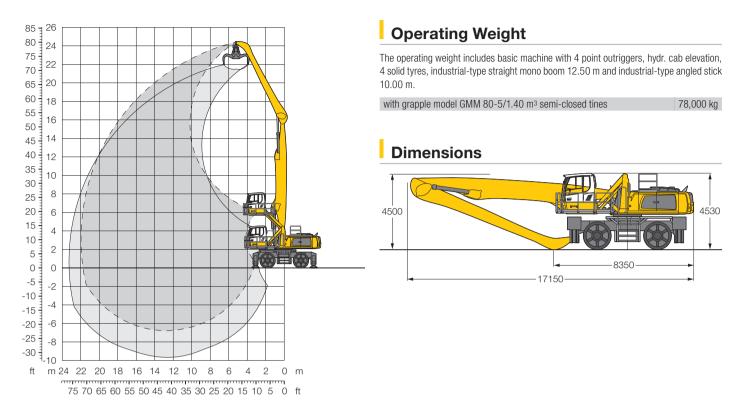
Height - Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The lift capacities on the stick and without attachment are stated in metric tags (t) and are valid on a firm, level supporting surface with blocked oscillating axis. These

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

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.

Kinematic 2A



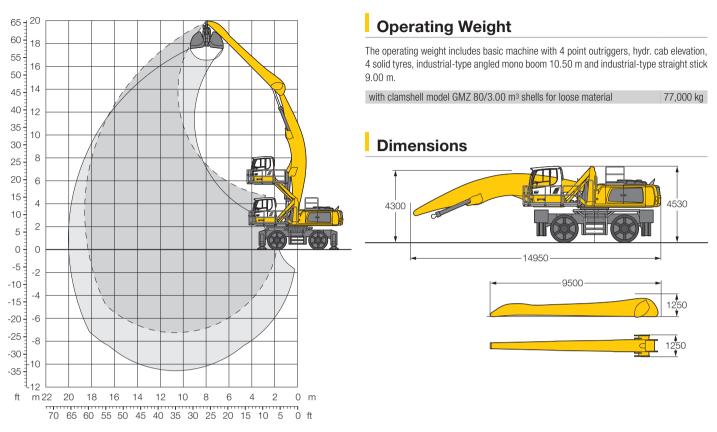
A A		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.	5 m	15.0) m	16.5	i m	18.0) m	19.5	5 m	21.0) m			1
↓ / / m	Undercarriage	5	<u> </u>		<u>L</u>	5	Ŀ	5	<u>L</u>	- - 5	j.	<u></u> 5	j.		d d	5	<u>L</u>		<u>.</u>	 ∰	<u>L</u>	<u>⊶-5</u>	<u>L</u>	 ∰	d d	m
24.0	4 pt. outriggers down	12.3*	12.3*																					11.5*	11.5*	6.6
22.5	4 pt. outriggers down					10.5*	10.5*																	8.8*	8.8*	10.2
21.0	4 pt. outriggers down					11.6*	11.6*	10.4*	10.4*	8.8*	8.8*													7.7*	7.7*	12.7
19.5	4 pt. outriggers down							11.2*	11.2*	10.2*	10.2*	8.7*	8.7*											7.0*	7.0*	14.6
18.0	4 pt. outriggers down							11.7*	11.7*	10.9*	10.9*	9.9*	9.9*	8.4*	8.4*									6.5*	6.5*	16.2
16.5	4 pt. outriggers down							12.0*	12.0*	10.8*	10.8*	9.8*	9.8*	8.9*	8.9*	7.9*	7.9*							6.2*	6.2*	17.4
15.0	4 pt. outriggers down							12.1*	12.1*	10.8*	10.8*	9.7*	9.7*	8.9*	8.9*	8.1*	8.1*	7.0*	7.0*					6.0*	6.0*	18.5
13.5	4 pt. outriggers down							12.2*	12.2*	10.8*	10.8*	9.7*	9.7*	8.9*	8.9*	8.1*	8.1*	7.5*	7.5*					5.8*	5.8*	19.4
12.0	4 pt. outriggers down							12.3*	12.3*	10.9*	10.9*	9.8*	9.8*	8.9*	8.9*	8.1*	8.1*	7.5*	7.5*	6.9*	6.9*			5.7*	5.7*	20.1
10.5	4 pt. outriggers down					13.1*	13.1*	12.5*	12.5*	11.0*	11.0*	9.9*	9.9*	8.9*	8.9*	8.1*	8.1*	7.5*	7.5*	6.9*	6.9*			5.6*	5.6*	20.7
9.0	4 pt. outriggers down					14.3*	14.3*	12.7*	12.7*	11.2*	11.2*	10.0*	10.0*	9.0*	9.0*	8.2*	8.2*	7.5*	7.5*	6.8*	6.8*	5.9	6.2*	5.6*	5.6*	21.2
7.5	4 pt. outriggers down	12.4*	12.4*	14.9*	14.9*	15.1*	15.1*	13.0*	13.0*	11.4*	11.4*	10.1*	10.1*	9.1*	9.1*	8.2*	8.2*	7.5*	7.5*	6.8*	6.8*	5.9	6.2*	5.6	5.6*	21.5
6.0	4 pt. outriggers down	18.9*	18.9*	18.7*	18.7*	15.6*	15.6*	13.3*	13.3*	11.6*	11.6*	10.3*	10.3*	9.2*	9.2*	8.3*	8.3*	7.5*	7.5*	6.7	6.8*	5.8	6.1*	5.4	5.6*	21.8
4.5	4 pt. outriggers down	24.8*	24.8*	19.5*	19.5*	16.0*	16.0*	13.6*	13.6*	11.8*	11.8*	10.4*	10.4*	9.2*	9.2*	8.3*	8.3*	7.5*	7.5*	6.6	6.8*	5.7	6.0*	5.2	5.4*	21.9
3.0	4 pt. outriggers down	10.6*	10.6*	20.0*	20.0*	16.4*	16.4*	13.8*	13.8*	11.9*	11.9*	10.5*	10.5*	9.3*	9.3*	8.3*	8.3*	7.4	7.4*	6.4	6.6*	5.6	5.8*	5.1*	5.1*	22.0
1.5	4 pt. outriggers down	5.4*	5.4*	15.9*	15.9*	16.5*	16.5*	13.9*	13.9*	12.0*	12.0*	10.5*	10.5*	9.2*	9.2*	8.2*	8.2*	7.2	7.3*	6.3	6.5*	5.5	5.5*	4.7*	4.7*	21.9
0	4 pt. outriggers down	4.6*	4.6*	10.4*	10.4*	16.4*	16.4*	13.8*	13.8*	11.9*	11.9*	10.4*	10.4*	9.1*	9.1*	8.0	8.1*	7.0	7.1*	6.1	6.2*	5.1*	5.1*	4.4*	4.4*	21.7
-1.5	4 pt. outriggers down	4.8*	4.8*	9.1*	9.1*	15.9*	15.9*	13.5*	13.5*	11.6*	11.6*	10.1*	10.1*	8.8*	8.8*	7.8*	7.8*	6.7*	6.7*	5.7*	5.7*	4.4*	4.4*	3.9*	3.9*	21.5
-3.0	4 pt. outriggers down	5.5*	5.5*	8.9*	8.9*	14.9*	14.9*	12.8*	12.8*	11.0*	11.0*	9.6*	9.6*	8.4*	8.4*	7.2*	7.2*	6.2*	6.2*	5.0*	5.0*			4.0*	4.0*	20.6
-4.5	4 pt. outriggers down			9.4*	9.4*	13.3*	13.3*	11.6*	11.6*	10.1*	10.1*	8.8*	8.8*	7.6*	7.6*	6.5*	6.5*	5.3*	5.3*					4.4*	4.4*	19.1
-6.0	4 pt. outriggers down					11.0*	11.0*	9.9*	9.9*	8.7*	8.7*	7.6*	7.6*	6.4*	6.4*	5.3*	5.3*							5.2*	5.2*	16.6
						P																				

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

Height - Can be slewed through 360° In longitudinal position of undercarriage

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.

Kinematic 2D



A A		6.0) m	7.5	m	9.0	m	10.	5 m	12.0	0 m	13.	5 m	15.0	0 m	16.5	5 m	18.0) m	19.	5 m	21.0) m			1
↓// m	Undercarriage	5	<u>L</u>	<u></u> 5	L	<u>⊶</u>	<u>L</u>	5	<u>L</u>	<u>∰</u>	<u>L</u>	<u>⊶</u>	<u>L</u>	<u></u>	<u>L</u>		<u>L</u>	<u></u> 5	<u>L</u>	<u>⊶</u>	<u>L</u>	 ∰	<u>L</u>	3	<u>L</u>	m
19.5	4 pt. outriggers down																							9.2*	9.2*	8.7
18.0	4 pt. outriggers down							9.1*	9.1*															8.0*	8.0*	11.1
16.5	4 pt. outriggers down							10.9*	10.9*	9.0*	9.0*													7.4*	7.4*	12.9
15.0	4 pt. outriggers down							10.8*	10.8*	10.0*	10.0*	8.6*	8.6*											7.0*	7.0*	14.3
13.5	4 pt. outriggers down							10.7*	10.7*	9.9*	9.9*	9.3*	9.3*	7.8*	7.8*									6.8*	6.8*	15.4
12.0	4 pt. outriggers down							10.8*	10.8*	10.0*	10.0*	9.3*	9.3*	8.8*	8.8*									6.6*	6.6*	16.4
10.5	4 pt. outriggers down							11.0*	11.0*	10.1*	10.1*	9.4*	9.4*	8.9*	8.9*	8.1*	8.1*							6.5*	6.5*	17.1
9.0	4 pt. outriggers down							11.3*	11.3*	10.4*	10.4*	9.6*	9.6*	9.0*	9.0*	8.5*	8.5*							6.5*	6.5*	17.7
7.5	4 pt. outriggers down					13.2*	13.2*	11.8*	11.8*	10.7*	10.7*	9.8*	9.8*	9.1*	9.1*	8.6*	8.6*	6.9*	6.9*					6.6*	6.6*	18.1
6.0	4 pt. outriggers down			16.3*	16.3*	14.0*	14.0*	12.4*	12.4*	11.1*	11.1*	10.1*	10.1*	9.4*	9.4*	8.7*	8.7*	8.0*	8.0*					6.7*	6.7*	18.4
4.5	4 pt. outriggers down	21.9*	21.9*	17.7*	17.7*	15.0*	15.0*	13.0*	13.0*	11.6*	11.6*	10.5*	10.5*	9.6*	9.6*	8.9*	8.9*	8.3*	8.3*					6.9*	6.9*	18.6
3.0	4 pt. outriggers down	24.3*	24.3*	19.2*	19.2*	15.9*	15.9*	13.7*	13.7*	12.1*	12.1*	10.8*	10.8*	9.8*	9.8*	9.0*	9.0*	8.1	8.3*					7.1*	7.1*	18.6
1.5	4 pt. outriggers down	22.3*	22.3*	20.5*	20.5*	16.8*	16.8*	14.3*	14.3*	12.5*	12.5*	11.1*	11.1*	10.0*	10.0*	9.1*	9.1*	8.0	8.3*					7.4*	7.4*	18.5
0	4 pt. outriggers down	13.6*	13.6*	21.5*	21.5*	17.6*	17.6*	14.8*	14.8*	12.9*	12.9*	11.4*	11.4*	10.2*	10.2*	9.0	9.2*	7.8	8.2*					7.6	7.8*	18.3
-1.5	4 pt. outriggers down	11.6*	11.6*	22.0*	22.0*	18.0*	18.0*	15.2*	15.2*	13.1*	13.1*	11.5*	11.5*	10.2	10.2*	8.8	9.1*							7.8	7.9*	18.0
-3.0	4 pt. outriggers down	11.4*	11.4*	19.3*	19.3*	18.0*	18.0*	15.2*	15.2*	13.1*	13.1*	11.5*	11.5*	10.0	10.1*	8.7	8.8*							7.8*	7.8*	17.5
-4.5	4 pt. outriggers down	11.7*	11.7*	18.4*	18.4*	17.5*	17.5*	14.9*	14.9*	12.8*	12.8*	11.1*	11.1*	9.6*	9.6*	8.0*	8.0*							7.5*	7.5*	16.9
-6.0	4 pt. outriggers down			18.6*	18.6*	16.4*	16.4*	14.0*	14.0*	12.0*	12.0*	10.2*	10.2*	8.5*	8.5*									8.3*	8.3*	15.2
-7.5	4 pt. outriggers down																									

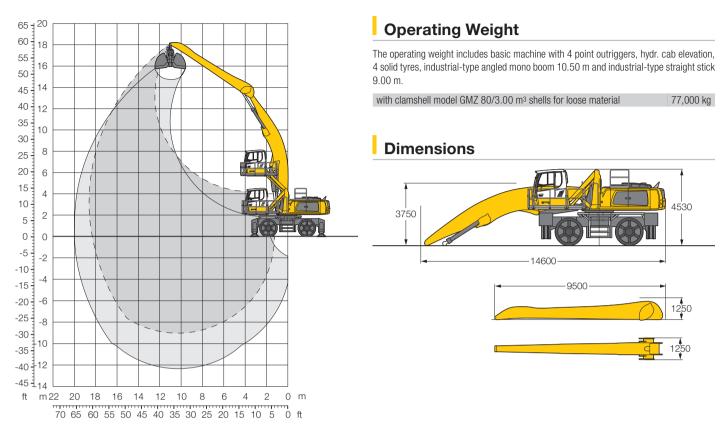
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

Max. reach * Limited by hydr. capacity

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.

Height Gan be slewed through 360° In longitudinal position of undercarriage

Kinematic 2C



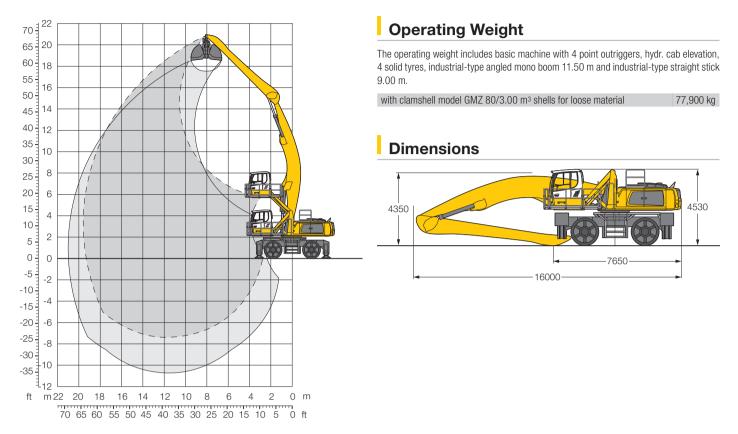
• 6		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.	5 m	15.0	0 m	16.5	5 m	18.0) m	19.5	5 m	21.0) m			1
Į ∕ m	Undercarriage		<u>L</u>	 5	L	<u>⊶</u>	<mark>L</mark>	<u></u> 3	<u>L</u>	 -∰	<u>L</u>	 5	L	<u>⊶</u>	<u>L</u>	<u></u>	<u>L</u>	<u></u> 5	<u>.</u>	 5	<u>L</u>		<u>L</u>	3	<u>L</u>	m
18.0	4 pt. outriggers down																							8.0*	8.0*	11.1
16.5	4 pt. outriggers down									9.0*	9.0*													7.4*	7.4*	12.9
15.0	4 pt. outriggers down											8.6*	8.6*											7.0*	7.0*	14.3
13.5	4 pt. outriggers down											8.5*	8.5*	7.8*	7.8*									6.8*	6.8*	15.4
12.0	4 pt. outriggers down											8.5*	8.5*	8.1*	8.1*									6.6*	6.6*	16.4
10.5	4 pt. outriggers down											8.6*	8.6*	8.2*	8.2*	7.9*	7.9*							6.5*	6.5*	17.1
9.0	4 pt. outriggers down									9.4*	9.4*	8.8*	8.8*	8.3*	8.3*	7.9*	7.9*							6.5*	6.5*	17.7
7.5	4 pt. outriggers down							10.7*	10.7*	9.8*	9.8*	9.0*	9.0*	8.5*	8.5*	8.0*	8.0*	6.9*	6.9*					6.6*	6.6*	18.1
6.0	4 pt. outriggers down					12.7*	12.7*	11.3*	11.3*	10.2*	10.2*	9.4*	9.4*	8.7*	8.7*	8.2*	8.2*	7.8*	7.8*					6.7*	6.7*	18.4
4.5	4 pt. outriggers down	19.9*	19.9*	16.2*	16.2*	13.7*	13.7*	12.0*	12.0*	10.7*	10.7*	9.8*	9.8*	9.0*	9.0*	8.4*	8.4*	7.9*	7.9*					6.9*	6.9*	18.6
3.0	4 pt. outriggers down	22.5*	22.5*	17.8*	17.8*	14.8*	14.8*	12.7*	12.7*	11.3*	11.3*	10.2*	10.2*	9.3*	9.3*	8.6*	8.6*	8.0*	8.0*					7.1*	7.1*	18.6
1.5	4 pt. outriggers down	22.3*	22.3*	19.3*	19.3*	15.8*	15.8*	13.5*	13.5*	11.8*	11.8*	10.6*	10.6*	9.6*	9.6*	8.8*	8.8*	8.0	8.1*					7.4*	7.4*	18.5
0	4 pt. outriggers down	13.6*	13.6*	20.5*	20.5*	16.7*	16.7*	14.1*	14.1*	12.3*	12.3*	10.9*	10.9*	9.8*	9.8*	8.9*	8.9*	7.8	8.1*					7.6	7.8*	18.3
-1.5	4 pt. outriggers down	11.6*	11.6*	21.3*	21.3*	17.4*	17.4*	14.6*	14.6*	12.7*	12.7*	11.2*	11.2*	10.0*	10.0*	8.8	9.0*							7.8	7.9*	18.0
-3.0	4 pt. outriggers down	11.4*	11.4*	19.3*	19.3*	17.6*	17.6*	14.9*	14.9*	12.8*	12.8*	11.3*	11.3*	10.0*	10.0*	8.7	8.8*							7.9*	7.9*	17.5
-4.5	4 pt. outriggers down	11.7*	11.7*	18.4*	18.4*	17.5*	17.5*	14.8*	14.8*	12.7*	12.7*	11.1*	11.1*	9.7*	9.7*	8.2*	8.2*							7.8*	7.8*	16.9
-6.0	4 pt. outriggers down	12.4*	12.4*	18.6*	18.6*	16.7*	16.7*	14.2*	14.2*	12.2*	12.2*	10.5*	10.5*	8.9*	8.9*									7.5*	7.5*	16.1
-7.5	4 pt. outriggers down	13.4*	13.4*	17.8*	17.8*	15.1*	15.1*	12.9*	12.9*	11.0*	11.0*	9.2*	9.2*	7.3*	7.3*									7.0*	7.0*	15.2
-9.0	4 pt. outriggers down							10.7*	10.7*															9.9*	9.9*	11.1

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In longitudinal position of undercarriage

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.

Kinematic 2D



• 6		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.5	5 m	15.0) m	16.	5 m	18.0) m	19.	5 m	21.0) m	-		1
Į.∕∕ m	Undercarriage		L.	5	J.	 5	ol.	5	d d		<u>_</u>	<u></u> 5	<u>L</u>		<u>_</u>	 -	<u>L</u>	 ∰	<u> </u>	<u>⊶</u> 5	J.		<u>_</u>		d d	m
19.5	4 pt. outriggers down				_		_	8.5*	8.5*		_		_		_	-			_		_			8.4*	8.4*	10.6
18.0	4 pt. outriggers down							10.6*	10.6*	8.7*	8.7*													7.6*	7.6*	12.7
16.5	4 pt. outriggers down							10.7*	10.7*	9.8*	9.8*	8.5*	8.5*											7.1*	7.1*	14.3
15.0	4 pt. outriggers down									9.7*	9.7*	8.9*	8.9*	8.0*	8.0*									6.9*	6.9*	15.5
13.5	4 pt. outriggers down									9.6*	9.6*	8.9*	8.9*	8.3*	8.3*	6.9*	6.9*							6.7*	6.7*	16.6
12.0	4 pt. outriggers down							10.7*	10.7*	9.7*	9.7*	9.0*	9.0*	8.3*	8.3*	7.8*	7.8*							6.6*	6.6*	17.4
10.5	4 pt. outriggers down							10.9*	10.9*	9.9*	9.9*	9.1*	9.1*	8.4*	8.4*	7.9*	7.9*	6.9*	6.9*					6.5*	6.5*	18.1
9.0	4 pt. outriggers down					12.7*	12.7*	11.3*	11.3*	10.1*	10.1*	9.2*	9.2*	8.5*	8.5*	7.9*	7.9*	7.5*	7.5*					6.6*	6.6*	18.7
7.5	4 pt. outriggers down			15.6*	15.6*	13.3*	13.3*	11.7*	11.7*	10.4*	10.4*	9.5*	9.5*	8.7*	8.7*	8.0*	8.0*	7.5*	7.5*					6.6*	6.6*	19.1
6.0	4 pt. outriggers down	20.6*	20.6*	16.7*	16.7*	14.1*	14.1*	12.2*	12.2*	10.8*	10.8*	9.7*	9.7*	8.9*	8.9*	8.2*	8.2*	7.6*	7.6*					6.7*	6.7*	19.4
4.5	4 pt. outriggers down	22.6*	22.6*	17.9*	17.9*	14.8*	14.8*	12.7*	12.7*	11.2*	11.2*	10.0*	10.0*	9.1*	9.1*	8.3*	8.3*	7.7*	7.7*	6.9	7.0*			6.9	6.9*	19.5
3.0	4 pt. outriggers down	21.1*	21.1*	19.0*	19.0*	15.6*	15.6*	13.3*	13.3*	11.6*	11.6*	10.3*	10.3*	9.3*	9.3*	8.4*	8.4*	7.7*	7.7*	6.8	7.1*			6.7	7.0*	19.6
1.5	4 pt. outriggers down	10.4*	10.4*	20.0*	20.0*	16.3*	16.3*	13.7*	13.7*	11.9*	11.9*	10.5*	10.5*	9.4*	9.4*	8.6*	8.6*	7.6	7.8*					6.7	7.0*	19.5
0	4 pt. outriggers down	8.4*	8.4*	17.1*	17.1*	16.8*	16.8*	14.1*	14.1*	12.2*	12.2*	10.7*	10.7*	9.6*	9.6*	8.6	8.6*	7.5	7.7*					6.7	7.0*	19.3
-1.5	4 pt. outriggers down	8.2*	8.2*	14.2*	14.2*	17.0*	17.0*	14.3*	14.3*	12.3*	12.3*	10.8*	10.8*	9.6*	9.6*	8.4	8.5*	7.3	7.6*					6.8	6.9*	19.0
-3.0	4 pt. outriggers down	8.6*	8.6*	13.4*	13.4*	16.8*	16.8*	14.2*	14.2*	12.3*	12.3*	10.7*	10.7*	9.4*	9.4*	8.2	8.3*	7.2*	7.2*					6.7*	6.7*	18.5
-4.5	4 pt. outriggers down	9.2*	9.2*	13.4*	13.4*	16.2*	16.2*	13.8*	13.8*	11.9*	11.9*	10.4*	10.4*	9.0*	9.0*	7.8*	7.8*							6.5*	6.5*	18.0
-6.0	4 pt. outriggers down			14.0*	14.0*	15.0*	15.0*	12.9*	12.9*	11.2*	11.2*	9.7*	9.7*	8.3*	8.3*									6.9*	6.9*	16.5
-7.5	4 pt. outriggers down																									
						7																				

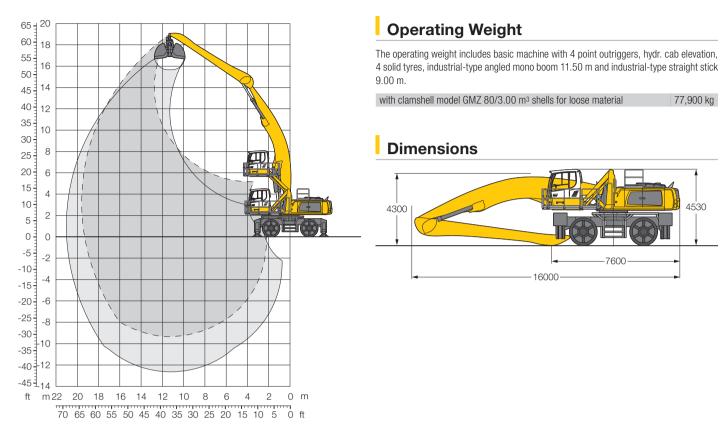
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

Max. reach * Limited by hydr. capacity

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.

Height Gan be slewed through 360° In longitudinal position of undercarriage

Kinematic 2C



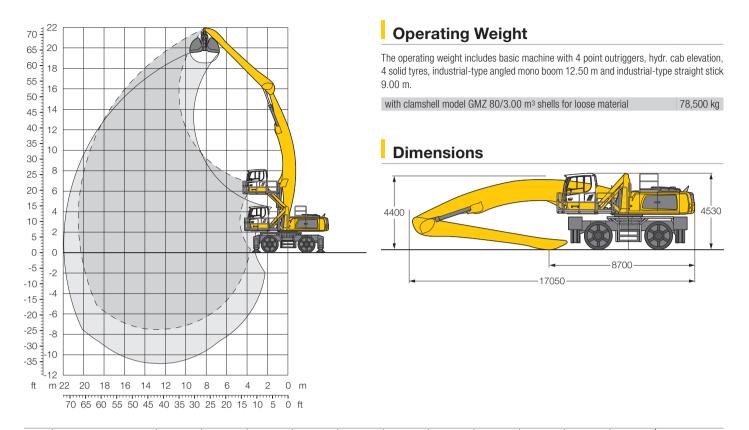
•		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.	5 m	15.0) m	16.5	5 m	18.0) m	19.	5 m	21.0) m	/		—
T/	Undercarriage	⊶	<u>L</u>	 5	<u>L</u>	- -∰	<mark>L</mark>	<u></u> 3	<u>L</u>		<u>L</u>	<u>⊶</u> 5	<u>L</u>	<u>5</u>	<mark>L</mark>	3	<u>L</u>	<u></u> 5	<u>L</u>	<u>⊶</u> 5	<u>L</u>		<mark>L</mark>	3	d d	m
18.0	4 pt. outriggers down									8.7*	8.7*													7.6*	7.6*	12.7
16.5	4 pt. outriggers down											8.2*	8.2*											7.1*	7.1*	14.3
15.0	4 pt. outriggers down											8.1*	8.1*	7.7*	7.7*									6.9*	6.9*	15.5
13.5	4 pt. outriggers down											8.0*	8.0*	7.6*	7.6*	6.9*	6.9*							6.7*	6.7*	16.6
12.0	4 pt. outriggers down											8.1*	8.1*	7.6*	7.6*	7.2*	7.2*							6.6*	6.6*	17.4
10.5	4 pt. outriggers down									8.9*	8.9*	8.2*	8.2*	7.7*	7.7*	7.3*	7.3*	6.9*	6.9*					6.5*	6.5*	18.1
9.0	4 pt. outriggers down									9.2*	9.2*	8.4*	8.4*	7.8*	7.8*	7.4*	7.4*	7.0*	7.0*					6.6*	6.6*	18.7
7.5	4 pt. outriggers down							10.6*	10.6*	9.5*	9.5*	8.7*	8.7*	8.0*	8.0*	7.5*	7.5*	7.1*	7.1*					6.6*	6.6*	19.1
6.0	4 pt. outriggers down					12.8*	12.8*	11.1*	11.1*	9.9*	9.9*	9.0*	9.0*	8.2*	8.2*	7.6*	7.6*	7.2*	7.2*					6.7*	6.7*	19.4
4.5	4 pt. outriggers down	20.7*	20.7*	16.4*	16.4*	13.6*	13.6*	11.7*	11.7*	10.3*	10.3*	9.3*	9.3*	8.5*	8.5*	7.8*	7.8*	7.3*	7.3*	6.8*	6.8*			6.8*	6.8*	19.5
3.0	4 pt. outriggers down	21.1*	21.1*	17.7*	17.7*	14.5*	14.5*	12.4*	12.4*	10.8*	10.8*	9.6*	9.6*	8.7*	8.7*	8.0*	8.0*	7.4*	7.4*	6.8	6.9*			6.7	6.9*	19.6
1.5	4 pt. outriggers down	10.4*	10.4*	18.8*	18.8*	15.3*	15.3*	12.9*	12.9*	11.2*	11.2*	10.0*	10.0*	9.0*	9.0*	8.2*	8.2*	7.5*	7.5*					6.7	6.9*	19.5
0	4 pt. outriggers down	8.4*	8.4*	17.1*	17.1*	16.0*	16.0*	13.5*	13.5*	11.6*	11.6*	10.3*	10.3*	9.2*	9.2*	8.3*	8.3*	7.5	7.6*					6.7	6.9*	19.3
-1.5	4 pt. outriggers down	8.2*	8.2*	14.2*	14.2*	16.4*	16.4*	13.8*	13.8*	11.9*	11.9*	10.5*	10.5*	9.3*	9.3*	8.4*	8.4*	7.3	7.5*					6.8	6.9*	19.0
-3.0	4 pt. outriggers down	8.6*	8.6*	13.4*	13.4*	16.5*	16.5*	13.9*	13.9*	12.0*	12.0*	10.5*	10.5*	9.3*	9.3*	8.2	8.3*	7.3*	7.3*					6.8*	6.8*	18.5
-4.5	4 pt. outriggers down	9.2*	9.2*	13.4*	13.4*	16.2*	16.2*	13.7*	13.7*	11.8*	11.8*	10.3*	10.3*	9.1*	9.1*	7.9*	7.9*							6.7*	6.7*	18.0
-6.0	4 pt. outriggers down	10.0*	10.0*	14.0*	14.0*	15.4*	15.4*	13.1*	13.1*	11.4*	11.4*	9.9*	9.9*	8.5*	8.5*	7.2*	7.2*							6.5*	6.5*	17.2
-7.5	4 pt. outriggers down	10.9*	10.9*	14.9*	14.9*	13.9*	13.9*	12.0*	12.0*	10.4*	10.4*	8.9*	8.9*	7.5*	7.5*									6.0*	6.0*	16.3
	4 pt. outriggers down							10.2*			8.7*	7.3*	7.3*											_		13.7
						P																				

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In longitudinal position of undercarriage

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.

Kinematic 2D



A (3)		6.0	m	7.5	m	9.0	m	10.	5 m	12.0) m	13.5	5 m	15.0) m	16.5	i m	18.0) m	19.5	5 m	21.0) m			
12			J		j		J		J		j		j		j		J		3		j		j		ا آد	
m	Undercarriage		밥	 5			Ľ	5	반		밥	<u>5</u>	<u>L</u>		Ľ		반			<u>⊶-5</u>	Ľ	5	Ľ	5	٣	m
21.0	4 pt. outriggers down					10.0*	10.0*																	8.7*	8.7*	9.9
19.5	4 pt. outriggers down							10.2*	10.2*	8.3*	8.3*													7.8*	7.8*	12.3
18.0	4 pt. outriggers down							10.6*	10.6*	9.5*	9.5*	8.3*	8.3*											7.3*	7.3*	14.1
16.5	4 pt. outriggers down									9.4*	9.4*	8.6*	8.6*	8.0*	8.0*									7.0*	7.0*	15.5
15.0	4 pt. outriggers down									9.4*	9.4*	8.6*	8.6*	7.9*	7.9*	7.2*	7.2*							6.7*	6.7*	16.7
13.5	4 pt. outriggers down							10.5*	10.5*	9.4*	9.4*	8.6*	8.6*	7.9*	7.9*	7.3*	7.3*							6.6*	6.6*	17.7
12.0	4 pt. outriggers down							10.7*	10.7*	9.5*	9.5*	8.6*	8.6*	7.9*	7.9*	7.3*	7.3*	6.9*	6.9*					6.5*	6.5*	18.5
10.5	4 pt. outriggers down							10.9*	10.9*	9.7*	9.7*	8.8*	8.8*	8.0*	8.0*	7.4*	7.4*	6.9*	6.9*					6.5*	6.5*	19.2
9.0	4 pt. outriggers down					12.9*	12.9*	11.2*	11.2*	9.9*	9.9*	8.9*	8.9*	8.1*	8.1*	7.5*	7.5*	6.9*	6.9*	6.5*	6.5*			6.4*	6.4*	19.7
7.5	4 pt. outriggers down	19.8*	19.8*	15.9*	15.9*	13.4*	13.4*	11.5*	11.5*	10.2*	10.2*	9.1*	9.1*	8.3*	8.3*	7.6*	7.6*	7.0*	7.0*	6.5*	6.5*			6.3*	6.3*	20.1
6.0	4 pt. outriggers down	21.2*	21.2*	16.8*	16.8*	13.9*	13.9*	11.9*	11.9*	10.5*	10.5*	9.3*	9.3*	8.4*	8.4*	7.7*	7.7*	7.1*	7.1*	6.5*	6.5*			6.2	6.3*	20.3
4.5	4 pt. outriggers down	22.8*	22.8*	17.7*	17.7*	14.6*	14.6*	12.4*	12.4*	10.8*	10.8*	9.5*	9.5*	8.6*	8.6*	7.8*	7.8*	7.1*	7.1*	6.6*	6.6*			6.0	6.2*	20.5
3.0	4 pt. outriggers down	8.1*	8.1*	18.6*	18.6*	15.1*	15.1*	12.8*	12.8*	11.1*	11.1*	9.8*	9.8*	8.7*	8.7*	7.9*	7.9*	7.2*	7.2*	6.5	6.6*			5.9	6.2*	20.5
1.5	4 pt. outriggers down	5.8*	5.8*	13.3*	13.3*	15.6*	15.6*	13.1*	13.1*	11.3*	11.3*	9.9*	9.9*	8.9*	8.9*	8.0*	8.0*	7.2*	7.2*	6.3	6.6*			5.8	6.1*	20.4
0	4 pt. outriggers down	5.5*	5.5*	10.5*	10.5*	15.9*	15.9*	13.3*	13.3*	11.5*	11.5*	10.1*	10.1*	8.9*	8.9*	8.0*	8.0*	7.1	7.2*	6.2	6.5*			5.8	6.0*	20.3
-1.5	4 pt. outriggers down	6.0*	6.0*	9.8*	9.8*	15.9*	15.9*	13.4*	13.4*	11.5*	11.5*	10.1*	10.1*	8.9*	8.9*	7.9	8.0*	6.9	7.1*	6.1	6.2*			5.9	5.9*	20.0
-3.0	4 pt. outriggers down	6.7*	6.7*	9.9*	9.9*	15.5*	15.5*	13.2*	13.2*	11.4*	11.4*	9.9*	9.9*	8.8*	8.8*	7.7	7.8*	6.8	6.8*	5.8*	5.8*			5.8*	5.8*	19.5
-4.5	4 pt. outriggers down	7.5*	7.5*	10.4*	10.4*	14.7*	14.7*	12.7*	12.7*	11.0*	11.0*	9.6*	9.6*	8.4*	8.4*	7.4*	7.4*	6.3*	6.3*					5.5*	5.5*	19.0
-6.0	4 pt. outriggers down					13.5*	13.5*	11.8*	11.8*	10.3*	10.3*	9.0*	9.0*	7.8*	7.8*	6.7*	6.7*							5.7*	5.7*	17.7
-7.5	4 pt. outriggers down									9.1*	9.1*	7.9*	7.9*											7.8*	7.8*	13.7
						7																				

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

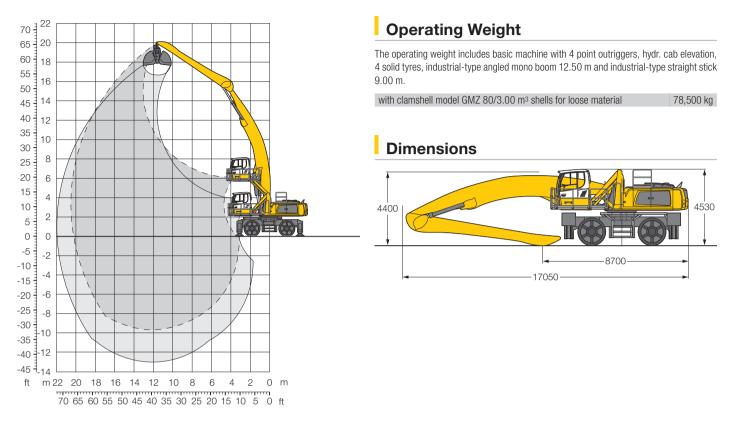
Max. reach * Limited by hydr. capacity

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.

Height Gan be slewed through 360° In longitudinal position of undercarriage

Height - Can be slewed through 360°

Kinematic 2C



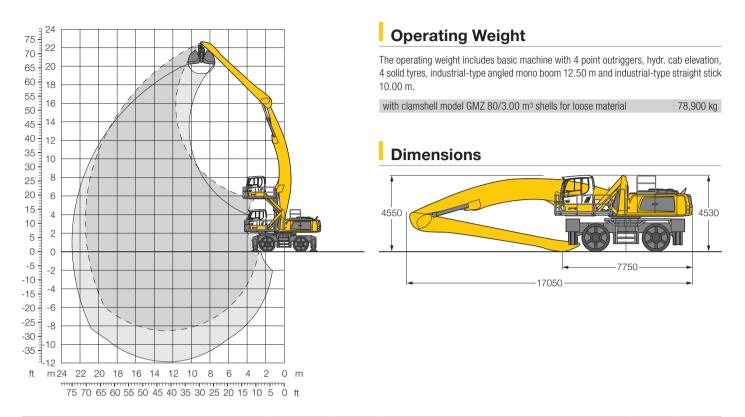
A (2)		6.0	m	7.5	5 m	9.0	m	10.	5 m	12.	0 m	13.5	5 m	15.0) m	16.5	i m	18.0) m	19.5	5 m	21.0) m			1
↓ / m	Undercarriage	 -∰	Ŀ	<u></u>	L	 ∰	L	5	L	5	Ŀ	 ∰	L	<u></u>	<u>L</u>	3	<u>L</u>	3	L	 -∰	Ļ		L	3	Ŀ	m
19.5	4 pt. outriggers down									8.3*	8.3*													7.8*	7.8*	12.3
18.0	4 pt. outriggers down											7.9*	7.9*											7.3*	7.3*	14.1
16.5	4 pt. outriggers down											7.7*	7.7*	7.2*	7.2*									7.0*	7.0*	15.5
15.0	4 pt. outriggers down											7.7*	7.7*	7.2*	7.2*	6.8*	6.8*							6.7*	6.7*	16.7
13.5	4 pt. outriggers down											7.7*	7.7*	7.2*	7.2*	6.7*	6.7*							6.4*	6.4*	17.7
12.0	4 pt. outriggers down											7.8*	7.8*	7.2*	7.2*	6.7*	6.7*	6.4*	6.4*					6.3*	6.3*	18.5
10.5	4 pt. outriggers down									8.7*	8.7*	7.9*	7.9*	7.3*	7.3*	6.8*	6.8*	6.4*	6.4*					6.1*	6.1*	19.2
9.0	4 pt. outriggers down									9.0*	9.0*	8.1*	8.1*	7.4*	7.4*	6.9*	6.9*	6.4*	6.4*	6.1*	6.1*			6.1*	6.1*	19.7
7.5	4 pt. outriggers down					12.0*	12.0*	10.4*	10.4*	9.2*	9.2*	8.3*	8.3*	7.6*	7.6*	7.0*	7.0*	6.5*	6.5*	6.1*	6.1*			6.0*	6.0*	20.1
6.0	4 pt. outriggers down	19.2*	19.2*	15.3*	15.3*	12.7*	12.7*	10.9*	10.9*	9.6*	9.6*	8.6*	8.6*	7.8*	7.8*	7.1*	7.1*	6.6*	6.6*	6.2*	6.2*			6.0*	6.0*	20.3
4.5	4 pt. outriggers down	21.0*	21.0*	16.3*	16.3*	13.4*	13.4*	11.4*	11.4*	9.9*	9.9*	8.8*	8.8*	8.0*	8.0*	7.3*	7.3*	6.7*	6.7*	6.3*	6.3*			6.0*	6.0*	20.5
3.0	4 pt. outriggers down	8.1*	8.1*	17.4*	17.4*	14.1*	14.1*	11.9*	11.9*	10.3*	10.3*	9.1*	9.1*	8.2*	8.2*	7.5*	7.5*	6.9*	6.9*	6.3*	6.3*			5.9	6.0*	20.5
1.5	4 pt. outriggers down	5.8*	5.8*	13.3*	13.3*	14.7*	14.7*	12.4*	12.4*	10.7*	10.7*	9.4*	9.4*	8.4*	8.4*	7.6*	7.6*	6.9*	6.9*	6.3	6.4*			5.8	6.0*	20.4
0	4 pt. outriggers down	5.5*	5.5*	10.5*	10.5*	15.2*	15.2*	12.7*	12.7*	10.9*	10.9*	9.6*	9.6*	8.6*	8.6*	7.7*	7.7*	7.0*	7.0*	6.2	6.3*			5.8	6.0*	20.3
-1.5	4 pt. outriggers down	6.0*	6.0*	9.8*	9.8*	15.4*	15.4*	12.9*	12.9*	11.1*	11.1*	9.7*	9.7*	8.6*	8.6*	7.7*	7.7*	6.9	7.0*	6.1	6.2*			5.9	6.0*	20.0
-3.0	4 pt. outriggers down	6.7*	6.7*	9.9*	9.9*	15.3*	15.3*	12.9*	12.9*	11.2*	11.2*	9.8*	9.8*	8.6*	8.6*	7.7*	7.7*	6.8	6.8*	5.9*	5.9*			5.9*	5.9*	19.5
-4.5	4 pt. outriggers down	7.5*	7.5*	10.4*	10.4*	14.9*	14.9*	12.7*	12.7*	11.0*	11.0*	9.6*	9.6*	8.4*	8.4*	7.4*	7.4*	6.5*	6.5*					5.8*	5.8*	19.0
-6.0	4 pt. outriggers down	8.3*	8.3*	11.0*	11.0*	14.0*	14.0*	12.0*	12.0*	10.5*	10.5*	9.1*	9.1*	8.0*	8.0*	6.9*	6.9*	5.8*	5.8*					5.5*	5.5*	18.3
-7.5	4 pt. outriggers down			11.9*	11.9*	12.6*	12.6*	11.0*	11.0*	9.6*	9.6*	8.4*	8.4*	7.2*	7.2*	6.0*	6.0*							5.1*	5.1*	17.5
-9.0	4 pt. outriggers down					10.5*	10.5*	9.4*	9.4*	8.2*	8.2*	7.1*	7.1*	5.9*	5.9*									5.4*	5.4*	15.5

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 rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In longitudinal position of undercarriage

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.

Kinematic 2D



A (2)		6.0	m	7.5	m	9.0	m	10.	5 m	12.0) m	13.5	i m	15.0) m	16.5	i m	18.0) m	19.5	5 m	21.0) m			.
12			ı.		į.		,L	_	ı,		al l		1		ı.	_	ı.	_	ı.		1	_	ı.		L	
m	Undercarriage		반		<u>"</u>	5	Ľ	5	바		법	5	<u>"</u>	2	造	5	La la		造	5	<u>"</u>		Ľ	 5	<u> </u>	m
22.5	4 pt. outriggers down																							8.4*	8.4*	9.0
21.0	4 pt. outriggers down							8.7*	8.7*															7.3*	7.3*	11.7
19.5	4 pt. outriggers down									8.8*	8.8*	7.0*	7.0*											6.6*	6.6*	13.8
18.0	4 pt. outriggers down									9.1*	9.1*	8.3*	8.3*	6.9*	6.9*									6.2*	6.2*	15.4
16.5	4 pt. outriggers down									9.0*	9.0*	8.2*	8.2*	7.5*	7.5*	6.4*	6.4*							6.0*	6.0*	16.7
15.0	4 pt. outriggers down									9.0*	9.0*	8.1*	8.1*	7.5*	7.5*	7.0*	7.0*							5.8*	5.8*	17.8
13.5	4 pt. outriggers down									9.0*	9.0*	8.2*	8.2*	7.5*	7.5*	6.9*	6.9*	6.5*	6.5*					5.7*	5.7*	18.8
12.0	4 pt. outriggers down									9.1*	9.1*	8.2*	8.2*	7.5*	7.5*	7.0*	7.0*	6.5*	6.5*	5.7*	5.7*			5.6*	5.6*	19.5
10.5	4 pt. outriggers down							10.4*	10.4*	9.3*	9.3*	8.3*	8.3*	7.6*	7.6*	7.0*	7.0*	6.5*	6.5*	6.1*	6.1*			5.6*	5.6*	20.1
9.0	4 pt. outriggers down							10.7*	10.7*	9.4*	9.4*	8.5*	8.5*	7.7*	7.7*	7.1*	7.1*	6.6*	6.6*	6.1*	6.1*			5.7*	5.7*	20.6
7.5	4 pt. outriggers down					12.7*	12.7*	11.0*	11.0*	9.7*	9.7*	8.7*	8.7*	7.9*	7.9*	7.2*	7.2*	6.6*	6.6*	6.2*	6.2*			5.7*	5.7*	21.0
6.0	4 pt. outriggers down	19.9*	19.9*	15.9*	15.9*	13.3*	13.3*	11.4*	11.4*	10.0*	10.0*	8.9*	8.9*	8.0*	8.0*	7.3*	7.3*	6.7*	6.7*	6.2*	6.2*	5.8*	5.8*	5.7	5.7*	21.2
4.5	4 pt. outriggers down	21.4*		16.8*							10.3*	9.1*	9.1*	8.2*	8.2*	7.4*	7.4*	6.8*	6.8*	6.3*	6.3*	5.7	5.8*	5.5	5.7*	21.4
3.0	4 pt. outriggers down	15.4*		17.7*							10.6*	9.3*	9.3*	8.3*	8.3*	7.5*	7.5*	6.9*	6.9*	6.3*	6.3*	5.6	5.8*	5.4	5.6*	21.4
1.5	4 pt. outriggers down	7.9*		18.4*							10.8*	9.5*	9.5*	8.5*	8.5*	7.6*	7.6*	6.9*	6.9*	6.3	6.3*	5.5	5.7*	5.3		
0	4 pt. outriggers down	6.4*	6.4*							11.0*	11 0*	9.7*	9.7*	8.6*	8.6*	7.7*	7.7*	7.0*	7.0*	6.1	6.3*	5.4	5.6*	5.3		
-1.5	4 pt. outriggers down	6.3*		10.7*								9.8*	9.8*	8.6*	8.6*	7.7*	7.7*	6.8	6.9*	6.0	6.2*			5.3	5.4*	
-3.0	4 pt. outriggers down	6.6*								11.1*		9.7*	9.7*	8.6*	8.6*	7.6	7.6*	6.6	6.8*	5.9	5.9*			5.3*	5.3*	20.5
-4.5	4 pt. outriggers down	7.2*		10.2*							10.9*	9.5*	9.5*	8.4*	8.4*	7.4*	7.4*	6.5*	6.5*	5.5*	5.5*			5.1*	5.1*	
-6.0	4 pt. outriggers down	7.8*		10.6*				12.0*			10.4*	9.1*	9.1*	8.0*	8.0*	6.9*	6.9*	5.9*	5.9*	0.0	0.0			4.9*	4.9*	19.3
-7.5	4 pt. outriggers down	7.0	1.0	10.0	10.0			11.0*			9.6*	8.3*	8.3*	7.2*	7.2*	6.1*	6.1*	0.0	0.0					5.7*		17.1
-7.3	4 pt. oddinggers down					, 1∠.U	12.0	11.0	11.0	3.0	3.0	0.3	0.5	1.2	1.2	0.1	0.1							0.7	0.7	17.1

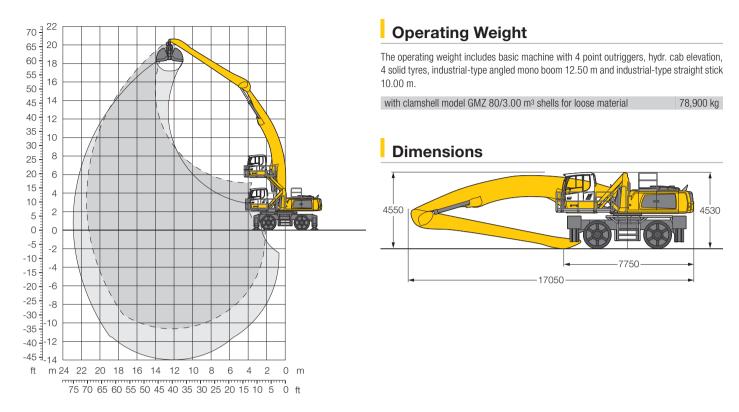
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

Max. reach * Limited by hydr. capacity

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.

Height Gan be slewed through 360° In longitudinal position of undercarriage

Kinematic 2C



a		6.0) m	7.5	m	9.0	m	10.	5 m	12.	0 m	13.5	5 m	15.0) m	16.5	m	18.0) m	19.5	5 m	21.0) m			4
m	Undercarriage	⊶	j.	<u></u> 5	4	5	4	5	ď	<u>⊶</u>	<u>L</u>	5	d d	 5	<u>"</u>	5	4	 ∰	4	5	<u>4</u>	5	占		d d	
	4 pt. outriggers down	_	_			-	_		_			7.0*	7.0*	-	_					_	_	-		6.6*	6.6*	
	4 pt. outriggers down													6.9*	6.9*									6.2*	6.2*	* 1
	4 pt. outriggers down													6.8*	6.8*	6.4*	6.4*							6.0*	6.0*	* 1
	4 pt. outriggers down													6.7*	6.7*	6.3*	6.3*							5.8*	5.8*	* 1
	4 pt. outriggers down													6.7*	6.7*	6.3*	6.3*	5.9*	5.9*					5.7*	5.7*	* -
	4 pt. outriggers down													6.8*	6.8*	6.3*	6.3*	5.9*	5.9*	5.6*	5.6*			5.6*	5.6*	* -
	4 pt. outriggers down											7.5*	7.5*	6.9*	6.9*	6.4*	6.4*	6.0*	6.0*	5.7*	5.7*			5.5*	5.5*	* *
	4 pt. outriggers down									8.5*	8.5*	7.6*	7.6*	7.0*	7.0*	6.5*	6.5*	6.0*	6.0*	5.7*	5.7*			5.5*	5.5*	* :
	4 pt. outriggers down									8.7*	8.7*	7.9*	7.9*	7.2*	7.2*	6.6*	6.6*	6.1*	6.1*	5.7*	5.7*			5.4*	5.4*	*
	4 pt. outriggers down					11.9*	11.9*	10.3*	10.3*	9.0*	9.0*	8.1*	8.1*	7.3*	7.3*	6.7*	6.7*	6.2*	6.2*	5.8*	5.8*	5.5*	5.5*	5.4*	5.4*	-
	4 pt. outriggers down	19.5*	19.5*	15.3*	15.3*	12.6*			10.8*	9.4*	9.4*	8.4*	8.4*	7.5*	7.5*	6.9*	6.9*	6.4*	6.4*	5.9*	5.9*	5.5*	5.5*	5.4*	5.4*	*
	4 pt. outriggers down	15.4*	15.4*	16.3*	16.3*	13.3*	13.3*	11.2*	11.2*	9.8*	9.8*	8.6*	8.6*	7.8*	7.8*	7.1*	7.1*	6.5*	6.5*	6.0*	6.0*	5.6*	5.6*	5.4	5.4*	*
	4 pt. outriggers down	7.9*		17.2*				11.7*	11.7*	10.1*	10.1*	8.9*	8.9*	8.0*	8.0*	7.2*	7.2*	6.6*	6.6*	6.1*	6.1*	5.5	5.6*	5.3	5.4*	*
0	4 pt. outriggers down	6.4*	6.4*	12.7*	12.7*	14.5*	14.5*	12.1*	12.1*	10.4*	10.4*	9.2*	9.2*	8.1*	8.1*	7.3*	7.3*	6.7*	6.7*	6.1*	6.1*	5.4	5.5*	5.3	5.4*	*
-	4 pt. outriggers down	6.3*	6.3*	10.7*			14.9*	12.4*			10.7*	9.3*	9.3*	8.3*	8.3*	7.4*	7.4*	6.7*	6.7*	6.0	6.1*			5.3	5.4*	-
	4 pt. outriggers down	6.6*	6.6*	10.1*	10.1*	15.0*		12.6*			10.8*	9.4*	9.4*	8.3*	8.3*	7.4*	7.4*	6.6	6.7*	5.9	5.9*			5.4*	5.4*	-
	4 pt. outriggers down	7.2*	7.2*	10.2*	-	14.8*			12.5*			9.4*	9.4*	8.3*	8.3*	7.3*	7.3*	6.5*	6.5*	5.6*	5.6*			5.3*	5.3*	-
	4 pt. outriggers down	7.8*	7.8*	-	-	14.2*		12.1*		10.5*		9.1*	9.1*	8.0*	8.0*	7.0*	7.0*	6.1*	6.1*					5.2*	5.2*	-
_	4 pt. outriggers down	8.5*	8.5*	11.2*		13.2*			11.4*	9.9*	9.9*	8.6*	8.6*	7.5*	7.5*	6.4*	6.4*	5.3*	5.3*					4.9*	4.9*	_
	4 pt. outriggers down	0.5	0.0			11.6*			10.1*	8.8*	8.8*	7.7*	7.7*	6.6*	6.6*	5.4*	5.4*	0.0	0.0					4.4*	4.4*	
_	4 pt. outriggers down							8.3*	8.3*	7.3*	7.3*	6.2*	6.2*	0.0	5.0	0.1	0.1							5.9*	5.9*	-

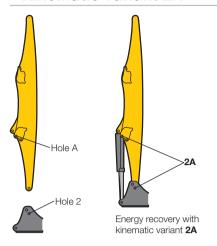
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted working tools (grabs, load hooks, etc.) and load accommodation equipment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

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.

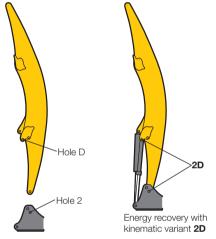
Kinematic Variants

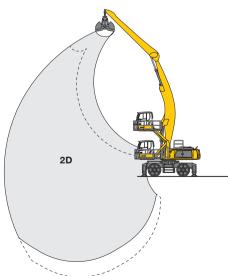


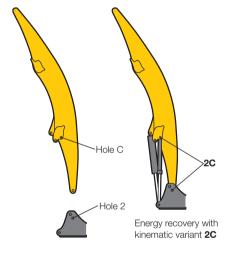
Kinematic Variant 2A

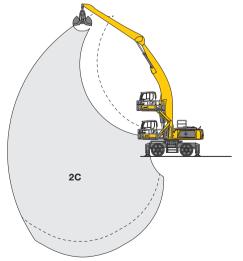


Kinematic Variant 2D/2C



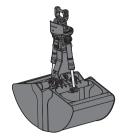






Altered range curve with additional reach depth, e.g. for unloading from ships

Variety of Tools



Shells for Loose Material

Shells for loose material with cutting edge (without teeth)

Clamshell model GMZ 80 (direct attached, two-motor, single-piece, protective device mechanic, XHD suspension)				
Cutting width of shells	mm 1,300	1,500	1,750	2,000
Capacity	m ³ 3.00	3.50	4.00	4.50
For loose material, specific weight up to	t/m³ 1.5	1.35	1.2	1.0
Weight	kg 2,515	2,630	2,775	2,920



Multiple Tine Grapples

Grapple model GMM 80-4, 4 tines (direct attack	ned, two-mo	tor, single-	piece, XHD	suspension	1)				
	open			semi-clo	sed		closed		
Capacity	n ³ 1.10	1.40	1.70	1.10	1.40	1.70	1.10	1.40	
Weight	kg 1,895	1,935	1,995	2,090	2,150	2,210	-	2,430	
Grapple model GMM 80-5, 5 tines (direct attack	ned, two-mo	tor, single-	piece, XHD	suspension	1)				
	open			semi-clo	sed		closed		
Capacity	n ³ 1.10	1.40	1.70	1.10	1.40	1.70	1.10	1.40	1.70
Weight	kg 2,170	2,220	2,290	2,390	2,465	2,540	2,440	2,580	2,740



Wood Grapple

Grapple model GMH 80 (direct a	ttached, XHD suspe	ension reinforced,	300 mm, plug-in coupling, two-motor, soft start)	
Claw width	mm	870	870	870
Size	m ²	1.90	2.20	2.50
Height of grapple, closed	mm	3,602	3,757	3,852
Weight	kg	2,210	2,230	2,285



Load Lift Hook

Load lift hook for industrial stick (direct attached, XHD suspension)		
Max. load t	25	
Height with suspension mm	1,220	
Weight kg	255	



Magnet Devices/Lifting Magnets

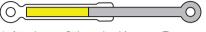
Generator	kW 20	30
Electromagnets with suspension (direct atta	ached)	
Power	kW 11.7	17.8
Diameter of magnet	mm 1,500	1,700
Weight	kg 2,400	3,300

Liebherr ERC-System

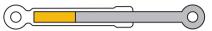


ERC System – More performance, less consumption

Lowering the equipment stores energy in the ERC system. This stored energy is then made available to the machine to provide additional engine power. When the equipment is raised the stored energy is released and is reflected in powerful, homogeneous operating cycles. The result is a clear saving on fuel – and, at the same time, even greater performance.



1. Attachment fitting raised/ Energy released

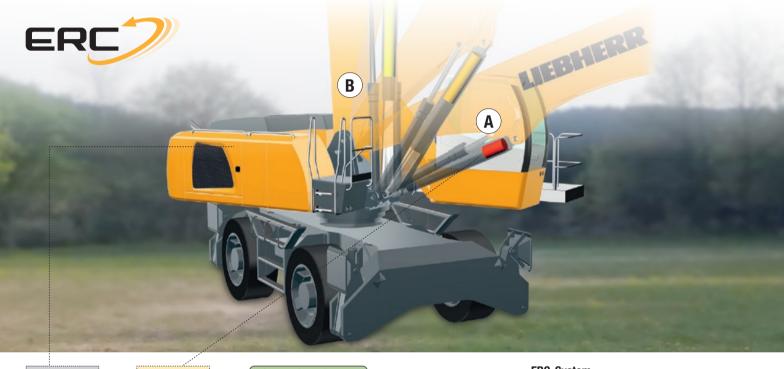


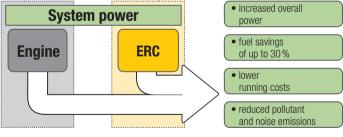
- 2. Lower attachment fitting/Store energy
- 4. Raise attachment fitting/Release energy



3. Attachment fitting lowered/ Energy stored

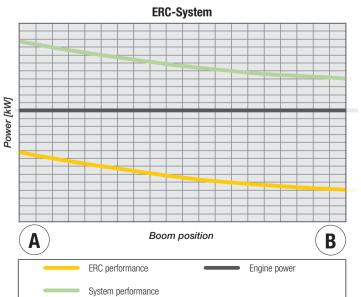






System power

The energy recovery cylinder is a storage system which is independent of the diesel engine. The system performance of material handling machines fitted with the ERC system is composed of the installed engine power and the energy recovery cylinder. When the equipment is raised, energy from the ERC system is supplied in addition to the power from the diesel engine.



Equipment

•**=**• Undercarriage

Support rocker, variants	+
Individual control outriggers	+
Shuttle axle lock, automatic	•
Outrigger monitoring system	+
Tyres, variants	+
Protection for piston rods, outriggers	+
Tool equipment, extended	•
Two lockable storage boxes	•
Two lockable storage boxes	•

□ Uppercarriage

Refuelling system with filling pump	+
Railing on uppercarriage	+
Generator	+
Main battery switch for electrical system	•
Protection for headlights	+

Hydraulic System

Electronic pump regulation	•
Liebherr hydraulic oil from −20 °C to +40 °C	•
Liebherr hydraulic oil, biologically degradable	+
Magnetic rod in hydraulic tank	•
Bypass filter	+
Preheating hydraulic oil	+

Engine

Fuel anti-theft device	+
Liebherr particle filter	•
Reversible fan drive, fully automatic	+
Air pre-filter with dust discharge	+
Protective grid in front of cooler intake	•
Preheating fuel	+
Preheating coolant	+
Preheating engine oil	+

Operator's Cab

•	
Cab lights rear, halogen	+
Cab lights rear, LED	+
Cab lights front, halogen	•
Cab lights front, LED	+
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	+
Joystick steering	+
Cab elevation, hydraulic (LHC)	+
Cab elevation, rigid (LFC)	+

Operator's Cab

Automatic air conditioning	•
Electric cooler	+
LiDAT Plus (extended Liebherr data transfer system) *	•
Bullet proof glass	+
Positioning swing brake	+
Proportional control	+
Radio Comfort (control via display)	+
Preparation for radio installation	•
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+
Warning beacon on cab	+
Windscreen wiper, roof	+
Top guard	+
Front guard	+
Auxiliary heating, adjustable (week time switch)	+
Flashing light (xenon)	+
Electronic immobilizer	+

Attachment

1-1 Attachment	
Boom lights, 2 pieces, halogen	•
Boom lights, 2 pieces, LED	+
Stick lights, 2 pieces, halogen	•
Stick lights, 2 pieces, LED, with protection	+
Boom shutoff, ascending	+
AutoLift	+
ERC system	•
Height limitation and stick shutoff, electronically	+
Boom cylinder cushioning	+
Industrial stick with quick coupling	+
Stick camera (with separate monitor), bottom side, with protection	+
Liebherr lightweight stick	+
Liebherr multi coupling system	+
Liebherr quick coupler, hydraulic or mechanical	+
Pipe fracture safety valves hoist cylinders	•
Pipe fracture safety valve stick cylinder	•
Quick coupling system LIKUFIX	+
Quick coupling system MH40	+
Protection for piston rod, ERC	+
Protection for piston rod, hoist cylinder	+
Retract stick without pressure	•
Overload warning device	+
Protection for stick	+

Complete Machine

Lubrication	
Lubrication undercarriage, manually – decentralized (grease points)	•
Central lubrication system for uppercarriage and attachment, automatically	•
Central lubrication system for undercarriage, automatically	+
Special coating, variants	+
Monitoring	
Rear view monitoring with camera	•
Side view monitoring with camera	+

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.

^{• =} Standard, + = Option

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The Liebherr Group of Companies



Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical application.

State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with over 39,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.com