

Performance

Compact, flexible – perfect combination for maximum performance

Economy

A sound investment – optimum economy and environmentally friendly

Reliability

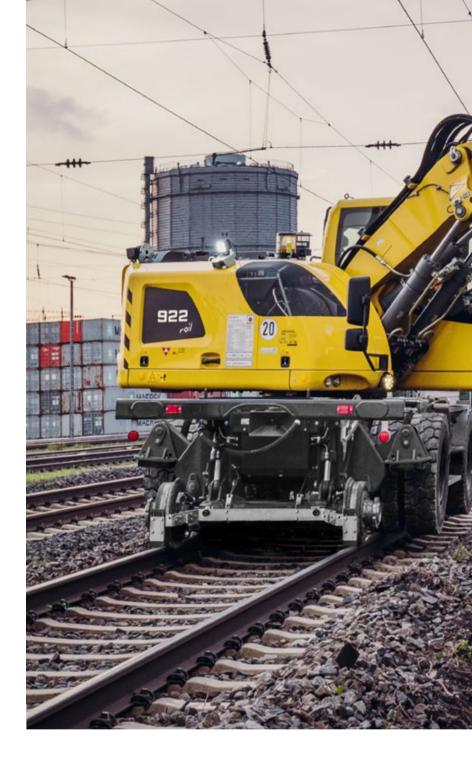
Competence, consistency, innovation – proven experience

Comfort

Ergonomic excellence – superior cabin design for operator comfort and wellbeing

Maintainability

Service every step of the way – simple, fast and reliable

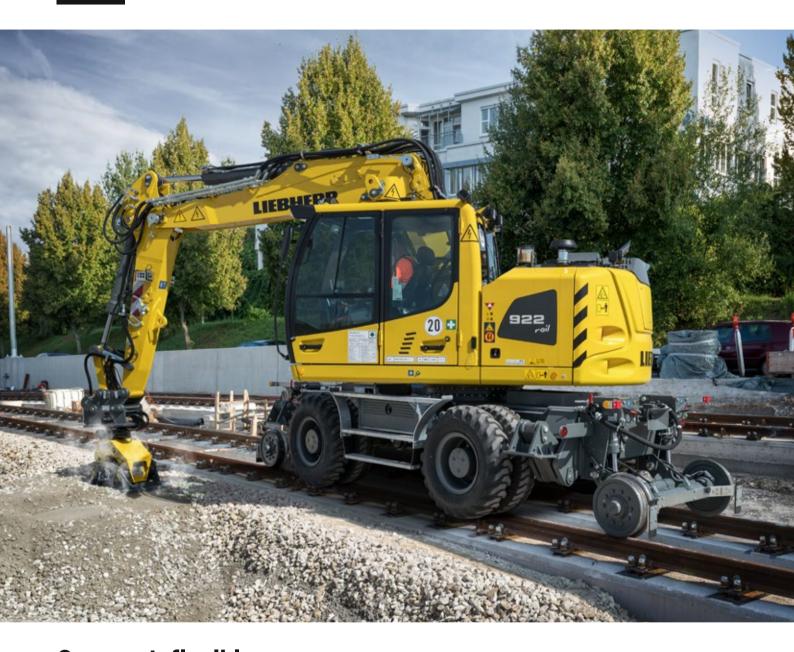




A 922 Rail

Operating weight 20,400 - 23,400 kg Engine 120 kW / 163 HP Stage V Tier 4 Final Stage IIIA (compliant)

Performance



Compact, flexible – perfect combination for maximum performance

Decades of experience, consistent development work and striving to deliver maximum efficiency and performance have resulted in the A 922 Rail. The new generation continues the successful concept of its predecessor with new ideas and improvements. The basis is provided by the powerful construction machinery engine with its high torque which drives Liebherr's powerful, flexible variable-displacement pumps. This means consistently high power is available in every situation.

Maximum performance

Maximum performance

A sophisticated machine concept is essential to deliver optimal performance in payloads, stability and flexibility. The new A 922 Rail generation delivers continued, familiar, intelligent superstructure design with a separate boom cylinder mounting and a solid rail chassis to ensure reliable stability and maximum load capacity for track operations. In addition to standard ballasting, a revised heavy ballast weight with a reduced rear swivel radius of 2,000 mm is now also available. The maximum payloads can also be increased by a Power Lift mode and an optional 4-point support.

Liebherr undercarriage

The A 922 Rail is available with a range of undercarriage versions with different gauges, rail wheels and suspension systems enabling it to be used on tracks anywhere in the world. An independent variable-displacement pump for the rail chassis delivers outstanding traction and reliable drive power at all times. The permanent level regulation of the rail chassis enables the machine to travel smoothly on rails.

Precise work

Powerful hydraulic concept

The design concept of the A 922 Rail Litronic was developed to deliver maximum performance and flexibility. The new 120 kW / 163 HP construction machinery engine and the perfectly coordinated hydraulic system enables the machine to achieve even higher working speeds with the familiar fluid equipment movements. To achieve greater performance when using attachments, the flow volume of the time-tested double variable-displacement pump (with independent regulating circuits) has been increased to 2 x 220 l/min. Furthermore, the capacity can also be used as the sum of both hydraulic circuits (for example for pile-driving) as in the past. A second high pressure circuit means that three hydraulic functions can be controlled directly on special attachments (for example on tamping devices).

Working with precision

Many years of experience in the development and production of hydraulic excavators and systems allow us to harmonize the components perfectly. As a result, Liebherr hydraulic excavators feature rapid, fluid movements combined with high precision.



Constant power

- Powerful and robust construction machinery motor for continuous use at full load
- 4.5 l long-stroke engine for high torque and fuel-efficient work at low speeds
- Efficient turbo loader with intercooling high output at low fuel consumption



Improved rail chassis

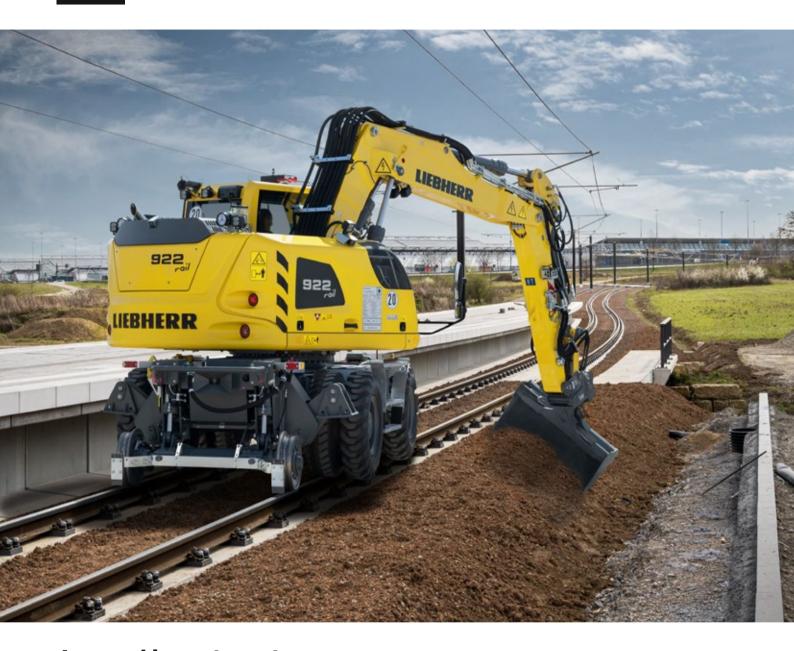
- Large rail wheels reduce wear and increase the machine's stability
- Easily interchangeable rail wheels make the machine suitable for a wide range of uses



Time-tested travel drive

- Time-tested travel drive with high traction for high travel speeds on the level and on gradients
- Drive power through direct contact between the rubber tyres and the rail delivers massive traction for towing trailers/wagons
- Newly developed drive shaft protection

Economy



A sound investment – optimum economy and environmentally friendly

Liebherr rail machines combine high productivity and flexibility with economy in factory-standard configurations. The A 922 Rail Litronic is specifically designed to be compatible with a variety of versatile attachments. The machine can work independently and flexibly even on inaccessible sections of track. On request, the efficiency of each wheeled excavator can be further boosted with a Liebherr quick coupling system, resulting in more return from each machine operator hour.

Maximum efficiency

Available all over the world

The new A 922 Rail Litronic railroad excavator delivers higher performance data with its new engine coupled with lower fuel consumption and can be supplied with an appropriate exhaust system to meet various national emissions regulations. In the future, this means that the machine will be available in countries with both high and low level regulations. To meet emissions stage V, Liebherr uses a newly developed SCRT system, consisting of an SCR catalytic converter system and a standard particulate filter.

Engine idling

The standard automatic idling function reduces the engine speed to idle as soon as the operator takes his hand from the joystick so that no hydraulic function is activated. Proximity sensors in the joystick levers restore the original engine speed as soon as the operator's hand is moved towards the lever again. This ensures that the set engine speed is available immediately. The result is a combination of fuel saving and reduced noise level.

Increased productivity

Liebherr attachments and LIKUFIX

To boost the productivity of its construction machines, Liebherr offers a broad range of attachments for different fields of application. Furthermore, the hydraulic excavators can also be equipped with the Liebherr LIKUFIX hydraulic quick coupling system. The combination of a hydraulic Liebherr quick coupling system with the LIKUFIX coupling block permits fast safe changing of mechanical and hydraulic attachments from the operator's cabin. This boosts productivity on average by 30 %. The construction process is accelerated, and orders are completed faster. That enables more turnover to be achieved per machine.

Efficient management

LiDAT, Liebherr's own data transmission and positioning system, facilitates efficient management, monitoring and control of the entire fleet in terms of machinery data recording, data analysis, fleet management and service. All of the important machinery data can be viewed at any time in a web browser. LiDAT provides you comprehensive work deployment documentation, greater availability thanks to shorter downtimes, faster support from the manufacturer, quicker detection of strain/overload and subsequently a longer service life of the machine as well as greater planning efficiency.



Wagon braking system

- Availability of various wagon braking systems for safe railway operation
- Can be configured flexibly depending on wagon type (hydraulic/pneumatic/single or dual circuit)



Adjustable gauge axle

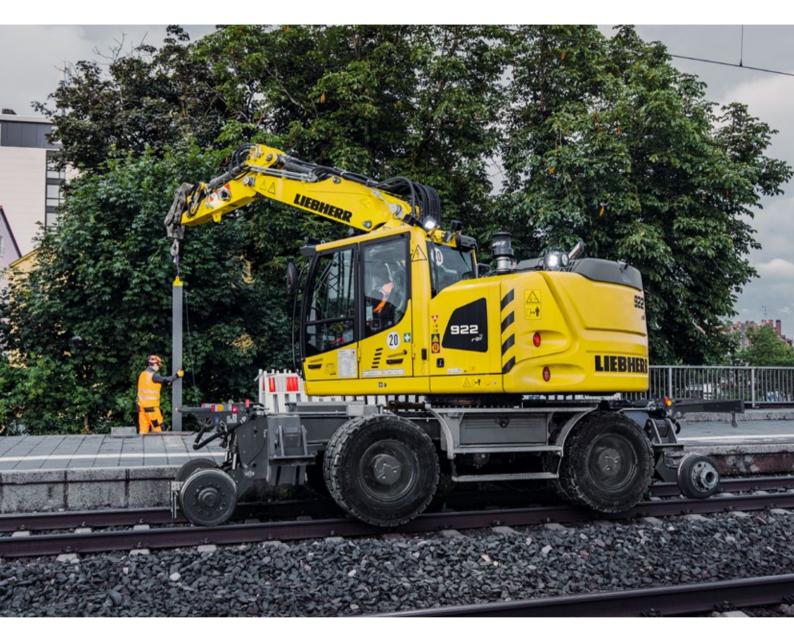
- Can be adjusted to various gauges (narrow, standard and wide gauge)
- Simple adjustment of gauge
- Suitable for worldwide use



Liebherr quick coupling system LIKUFIX

- Faster and safer changing of mechanical and hydraulic attachments from the cab
- Extended applications and control due to signal contact strip between the attachment and the hydraulic excavator
- Optical and acoustic check of the correct closure of the locking mechanism on the attachment to the quick coupler unit using two proximity sensors

Reliability



Competence, consistency, innovation – proven experience

Reliability contributes to safety and safety influences the success of a project. Liebherr stands for safety with reliable railroad machines used on rail, in rough terrain or on the road. Our comprehensive security functionality pays off.

More safety

Quality and competence

Liebherr has been developing and manufacturing hydraulic excavators since 1954 and has built railroad excavators since 1967. Our product experience, our understanding of technical design and feedback from customers, sales and service personnel formed the basis for our construction of pioneering ideas and have been part of our successful recipe throughout the company history. Key components such as electronic parts, the slewing ring, slewing drive and hydraulic cylinders are developed and manufactured in-house. Our great production depth guarantees maximum quality and ensures that the components are perfectly coordinated with each other.

Robust construction

All the steel components are designed and manufactured by Liebherr. High strength steel sheets designed to withstand the harshest requirements guarantee high torsion resistance and excellent absorption of forces to ensure a long service life.

High machine availability

Safety

Besides the performance and efficiency of a railroad excavator, the safety of the operator and the machine must always be paramount. Numerous equipment features such as the standard pipe fracture safety valves on the lifting and stick cylinders, electronic lift limitation, electronic swivel limitation, load moment limitation according to EN 15746-2, laminated safety glass smash-resistant, rollover protection structure (ROPS) and an emergency exit through the rear window provide maximum safety in all operations.

Light and durable

Various LED lights illuminate the working area to deliver excellent visibility and a high level of safety for both man and machine. Our LED lights not only look good, but also deliver excellent luminosity and an extremely long service life. To comply with the appropriate standards in the various destination countries, the machine can be fitted with additional railway-specific lighting at the factory.



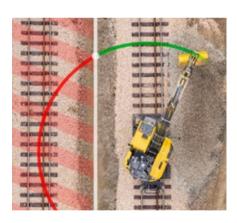
QPDM - Quality and process data management

- QPDM allows production data to be logged, documented and evaluated
- Automation of documentation and test specifications
- Ability to handle large quantities and maintain uniform high quality



Rail wheel brakes

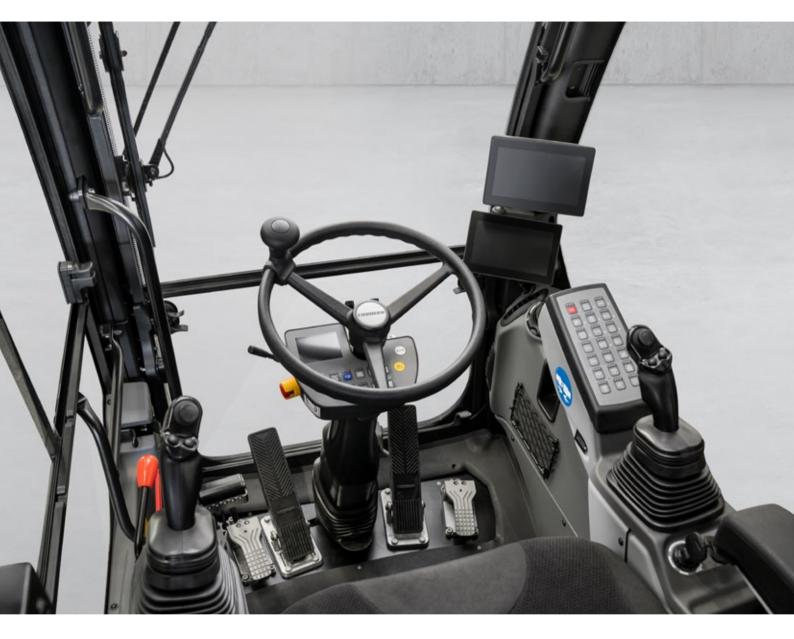
- Standard integral brakes in the rail wheels reduce the braking distance in every situation to enhance safety on the tracks
- The brakes are also effective when the machine is raised



Safety systems Straight from the manufacturer

- The basic machine, rail undercarriage and safety systems all come from a single source
- The safety concept includes technologies such as load torque limitation, lift limitation in height, swivel limitation and the virtual wall
- Specially developed for use on rails

Comfort



Ergonomic excellence – superior cabin design for operator comfort and wellbeing

The modern interior design of the large Liebherr double cab with standard roll-over protection system (ROPS) provides conditions to work in comfort, which enhances concentration and productivity. Thanks to the double seat layout, the cab supports two-man operation required in many countries in which another person monitors the rear and can press a horn or emergency stop switch in an emergency situation. Access to the cab is made easy for both seats by entry lighting. Clarity, ergonomics and safety are the properties we strive for when creating the control concept. That means we avoid time-consuming re-familiarisation phases and allow the operator to work efficiently in the machine straight away.

First-class cab

Automatic air conditioning

The automatic air conditioning offers intuitive operation. Temperature, blower settings and the various air nozzles in the head, chest and foot areas are set using the touch screen on the indicating unit. The defrost / defog one button function clears fogged up windows in the shortest possible time. The filter for the cab air can be changed easily and conveniently from the outside.

Operator seats

The Standard, Comfort and Premium operator's seat versions deliver maximum comfort. Even the standard operator seat offers an extensive range of features such as air suspension, seat heating, headrest, lumbar support and many more. Luxuries which we believe every construction machine should provide.

Low noise levels

The use of viscoelastic mounts, good insulation and low-noise diesel engines minimises noise emissions and vibrations. The noise levels are just 70 dB(A) in the operator's cab and 101 dB(A) outside.

Comfortable operation

Radio with hands-free device

The optional Liebherr radio is MP3-compatible, has a USB connection and can be used as interface for the integral hands-free kit. If the machine operator connects his smartphone to the radio using Bluetooth, the touchscreen can be used to control phone calls. This means that all media, including the radio, MP3 or phone calls, are controlled using a central unit which provides greater clarity, simplicity and comfort.

Excellent all around vision

The familiar large windows combined with the standard rear and side cameras deliver excellent visibility of the working and slewing areas. This visibility enhances the operator's safety and ensures that the machine can be handled safely at all times.



Joystick with proportional control

- Good functionality with streamlined, ergonomic design
- 4 way mini joystick enables versatile control possibilities without having to encompass, for example, steering, outriggers or attachments
- Two buttons and a rocker switch also increase the number of functions



Easy access

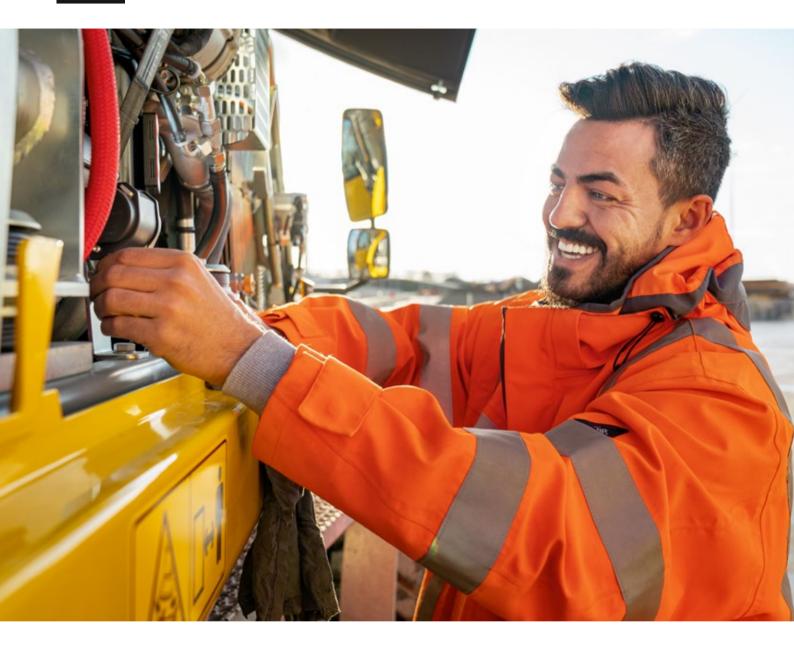
- Convenient, safe entry and exit into and out of the cab thanks to greater width provided by the folding arm console
- Three standard steps with non-slip galvanised plates to enhance safety
- LED entry lighting can be controlled from outside



Intuitive operation

- Display of the machine data and camera image on two 9-inch displays with touch screen and direct access via menu bar
- 20 user-programmable memory slots for attachments, which can be used for quickly and easily setting the oil pressure and oil flow at the push of a button when changing attachments
- Quick access keys can be programmed by the machine operator for frequently used menu items

Maintainability



Service every step of the way – simple, fast and reliable

Liebherr railroad excavators are not only powerful, robust, precise and efficient, they also have an impressive service-oriented design. Maintenance is performed quickly, simply and safe. This reduces maintenance costs and keeps machine downtimes to a minimum.

Simplified maintenance concept

Service-based machine design

The service-based machine design guarantees short servicing times, thus minimising maintenance costs due to less downtime. All the maintenance points are easily accessible from the ground and easy to reach due to the large, wide-opening service doors. With the new generation, the accessibility to important components is even further improved. Air, oil and fuel filters, the main battery switch, the lubricating nipple for the oscillating axle and the pilot valves for emergency actuation are much easier to access. This means that service work can be completed even more quickly and efficiently.

Hydraulic oils with added value

Liebherr hydraulic oils achieve a service life of 6,000 operating hours plus. Instead of having defined change intervals, the results of the oil analysis (every 1,000 operating hours or after one year) determine when the oil needs to be changed. The unique Liebherr Hydraulic Plus oil can even achieve a service life of 8,000 operating hours and more at the same time as reducing fuel consumption by up to 5%.

Your competent service partner

Remanufacturing

The Liebherr remanufacturing program offers cost-effective reconditioning of components to the highest quality standards. Various reconditioning levels are available including replacement components and general overhaul or repair. The customer receives components with original part quality at a reduced cost.

Competent advice and service

Competent advice is a given at Liebherr. Experienced specialists provide advice for your specific requirements: application-oriented sales support, service agreements, cost effective repair alternatives, original parts management, as well as remote data transmission for machine planning and fleet management.



Lubricating during work

- Fully automatic central lubrication system for the equipment and slewing ring
- Can be optionally expanded to the connecting link and quick coupler
- The grease tank of the central lubrication system is located behind the left service door
- Works without interrupting work for higher productivity



Maintenance without draining oil

- Standard shut-off valve for disconnecting the oil tank from the hydraulic system
- For simple maintenance work on the hydraulic components without draining the hydraulic oil
- Reduced maintenance time for higher machine availability



Rapid spare parts service

- 24-hour delivery: Spare parts service is available for our dealers around the clock
- Electronic spare parts catalogue:
 Fast and reliable selection and ordering via the Liebherr online portal
- With online tracking, the current processing status of your order can be viewed at any time

Railroad excavator A 922 Rail Litronic overview

Superbly designed equipment for maximum reliability

- Second high pressure circuit
- Safety features such as load torque limitation, lift limitation in height, swivel limitation and the virtual wall
- Liebherr hydraulic cylinders
- Pipe fracture guards for hoisting, adjustment and stick cylinders
- Optimised bucket stick for application under electrical overhead lines
- Liebherr quick coupling systems (optional)
- Wide selection of Liebherr attachments (optional)
- Tool Control for attachments

Sophisticated maintenance ———concept for maximum productivity

- Fully automatic central lubrication system for uppercarriage and equipment
- Large, wide-opening service doors
- Central maintenance points accessible from the ground
- Shut-off device for hydraulic oil
- Liebherr hydraulic oil, biologically degradable (optional)
- Cab air filter can be replaced quickly and conveniently from outside
- Two lockable storage boxes
- Interchangeable rail wheels





Ergonomic operator's work station for maximum comfort

- Double cab with passenger seat
- Operator's seat Comfort or Premium (optional)
- Automatic air-conditioning system
- Two 9" high resolution colour display with touchscreen operation
- Operator profile, personalised
- Resonant arm console and ergonomic joysticks
- Proportional control with 4-way mini-joystick
- Large windows
- Windshield wiper with interval switching and washer, roof window and rear window
- Convenient radio operation with hands-free device
- LED headlights
- Rear and side camera monitoring
- Lighting for cabin access

Intelligent technology for maximum performance and economy

- Diesel engine with up to date emissions Stage V,
 Tier 4 Final and Stage IIIA (compliant)
- Dual-circuit load-sensing-control
- Liebherr-Power-Efficiency (LPE)
- MODE selection (Sensitive, ECO, Power, Power-Plus)
- Sensor-controlled automatic idling system
- Double variable-displacement pump (with independent regulating circuits)
- Different gauges and rail wheels possible
- Independent variable-displacement pump for the rail undercarriage
- Improved rear ballast (heavy) with 2,000 mm rear swivel radius (optional)

Technical data



Diesei engine			
Rating per ISO 9249 120 kW (163 HP) at 1,900 RPM			
Model	·		
Stage V/Tier 4 Final	D924 - FPT motor designed for Liebherr		
Stage IIIA (compliant)	Cummins QSB4.5		
Туре	4 cylinder in-line		
Bore / Stroke	104/132 mm (FPT)		
	107 / 124 mm (Cummins)		
Displacement	4.5 l		
Engine operation	4-stroke diesel		
	Common-Rail		
	Turbo-charged and after-cooled		
	Reduced emissions		
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety		
	elements		
Engine idling	Sensor controlled		
Electrical system			
Voltage	24 V		
Batteries	2 x 135 Ah/12 V		
Alternator	Three-phase current 28 V / 140 A (FPT)		
	Three-phase current 28 V / 80 A (Cummins)		
Stage V			
Harmful emissions values	According to regulation (EU) 2016/1628		
Emission control	Liebherr-SCRT technology		
Fuel tank	250 l		
Urea tank	46 l		
Tier 4 Final			
Harmful emissions values	In accordance with 40CFR1039 (EPA) / 13CCR (CARB)		
Emission control	Liebherr-SCR technology		
Fuel tank	250 l		
Urea tank	46 l		
Stage IIIA (compliant)	It sound and it sos pay be a payd.		
Harmful emissions values	In accordance with ECE-R.96 Power Band I		
Fuel tank	250 l		



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Diesel engine		Water-cooled
		Compact cooling system consisting cooling unit for
		water, hydraulic oil and charge air with stepless thermo-
		statically controlled fan, fans for radiator cleaning can be
		completely folded away



= nyuraunc controis		
Power distribution	Via control valves with integrated safety valves, simultaneous and independent actuation of chassis, swing drive and equipment	
Servo circuit		
Equipment and swing	With electro-proportional joystick levers	
Chassis	Electro-proportional via foot pedal, dedicated control and display unit for rail undercarriage operation	
Additional functions Via switch or electro-proportional foot pedals		
Proportional control	Proportionally acting transmitters on the joysticks for additional hydraulic functions	

Hydraulic system

Hydraulic pump	
For equipment and travel drive	2 Liebherr axial piston variable displacement pumps (double construction)
Max. flow	2 x 220 l/min.
Max. pressure	350 bar / PowerLift 375 bar
Hydraulic pump regulation and control Liebherr-Synchron-Comfort-system (LSC) with e engine speed sensing regulation, pressure and i pensation, torque controlled swing drive priority	
Hydraulic tank	130 l
Hydraulic system	max. 340 l
Hydraulic oil filter	1 main return filter with integrated partial micro filtration (5 µm)
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for espe- cially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
S (Sensitive)	Mode for precision work and lifting through very sensitive movements
E (Eco)	Mode for especially economical and environmentally friendly operation
P (Power)	Mode for high performance with low fuel consumption
P+ (Power-Plus)	Mode for highest performance and for very heavy duty applications, suitable for continuous operation
Engine speed and performance setting	Stepless alignment of engine output and hydraulic power via engine speed
	Tool Control: 20 pre-adjustable pump flows and pres- sures for add-on attachments

Swing drive

•	
Drive	Liebherr axial piston motor with integrated brake valve and torque control, Liebherr planetary reduction gear
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0 - 9.0 RPM stepless
Swing torque	54 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)
	Pedal controlled positioning swing brake



Cab	
Double cabin	ROPS safety cab structure (roll-over protection system for complete operator's cab), shock-absorbing suspension, sound damping insulating, electrically unlockable door, two-piece retractable front windscreen, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, roof window and front windscreen wipers, work headlights integrated in the ceiling, ambient lighting for night operations in addition to interior lighting, access lighting outside, operator's door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, 12 V / 24 V electrical connections
Operator's seat Standard	Air cushioned operator's seat with 3D-adjustable arm- rests, 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 horizon- tal suspension, automatic weight adjustment, adjustable suspension stiffness, pneumatic lumbar vertebrae sup- port 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
Two-man operation	Ergonomical co-operator's seat with lap belt as well as signal horn and emergency stop
Arm consoles	Joysticks with control consoles and swivel seat, folding left control console
Operation and displays	Large high-resolution operating unit with touchscreen control, self-explanatory, numerous settings, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters as well as safety functions such as load display, load torque limitation, lift and swivel limitation or virtual wall, separate display for rear view and side view monitoring, dedicated control and display unit for rail undercarriage operation with emergency stop function
Air-conditioning	Complete air-conditioning for operator and co-operator, automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu; recirculated air and fresh air filters can be easily replaced and are accessible from the outside; heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C	1,300 g
CO ₂ equivalent	1.859 t
Vibration emission*	/-
Hand/arm vibrations	< 2.5 m/s ²
Whole-body vibrations	< 0.5 m/s ²
Measuring inaccuracy	According with standard EN 12096:1997

●=● Undercarriage

•=• Undercarriage			
Drive	Oversized two speed power shift transmission with additional creeper speed, Liebherr axial piston motor with functional brake valve on both sides		
Pulling force	117 kN		
Travel speed	0 - 3.5 km/h stepless (creeper speed off-road) 0 - 7.0 km/h stepless (off-road)		
	0 - 13.0 km/h stepless (creeper speed on-road)		
	0 - 20.0 km/h stepless (road travel)		
	0 - max. 25.0 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, on-road and on-rail		
Axles	Manual or automatic hydraulically controlled front axle oscillation lock		
Option	Axle with wheel head width 2,100 mm and differential lock 100%		
Service brake	Two circuit travel brake system with accumulator; road axle wet and backlash-free disc brake; rail wheels with drum brake		
Holding brake	Wet multi-disc (spring applied, pressure released)		
Wagon braking system	1 circuit compressed air brake for railway wagon		
Option	2 circuit compressed air brake for trailer		
	2 circuit hydraulic brake for trailer		
Rail guide	Standard gauge 1,435 mm		
Option	Width gauge, narrow gauge type friction drive		
Stabilization	Without outriggers		
Option	Rear + front outriggers		

Equipment

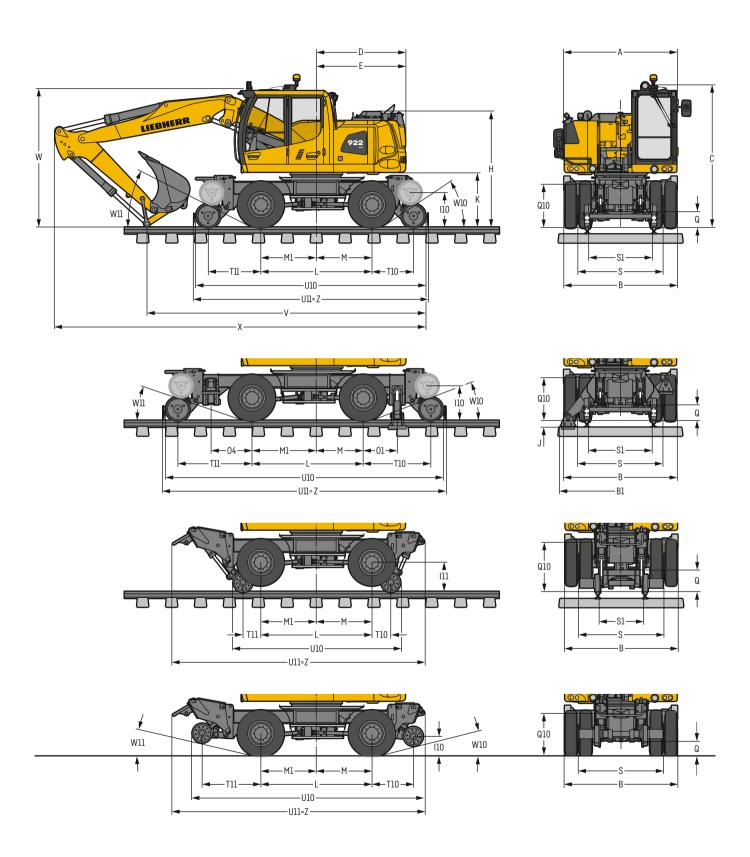
ac Equipment	
Туре	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Bearings	Sealed,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

Complete machine

complete machine	
Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Noise emission	
ISO 6396	70 dB(A) = L _{pA} (inside cab)
2000/14/EC	101 dB(A) = L _{WA} (surround noise)

^{*} for risk assessment according to 2002/44/EC see ISO/TR 25398:2006

Dimensions



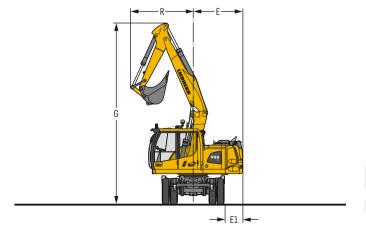
	without outriggers (Asym. / Sym. Rail)	Rear + front outriggers	Narrow gauge (Asym./Sym. Rail)	Narrow gauge (Asym./Sym. Rail)
	mm	mm	rail mm	road mm
	2,525	2,525	2,525	2,525
A B		,		,
B1	2,550	2,550	2,550	2,550
C*	3,185	2,700 3,185	3,335	3,185
	'	2,000	,	
D E	2,000 2,000	2,000	2,000 2,000	2,000 2,000
Н			,	
п 110	2,600 780	2,600 780	2,745	2,600 440
111	700	700	655	440
J	-	145	000	-
K	1 075		1 700	1 075
L	1,235 2,500	1,235 2,500	1,380 2,500	1,235 2,500
		,		
M	1,050/1,250** 1,450/1,250**	1,050	1,050/1,250** 1,450/1,250**	1,050/1,250**
M1 01	1,450 / 1,250	1,450 770	1,450/1,250	1,450/1,250**
04	-	920	-	-
Q Q	190	190	135	345
Q10	965	965	1,115	965
S	1,912	1,912	1,115	1,912
S1	1,435	1,435	1,912	1,712
T10	930	1,435	430	935
T11	1,180	1,675	400	1,320
U10	5,185	6,270	3,780	5,200
U11	5,315	6,395	5,670	5,670
W10	33.8°	0,373 20.7°	5,670	15.2°
W11	26.5°	18.8°		13.7°
Z	5.315	6.395	5.670	5.670

*	without signal light DB	and amber beacon; can	be removed for transport

^{**} Symmetric Rail E = Tail radius Tyres 10.00-20

	Stick	Two-piece boom 5.05 m		
		without outriggers	without outriggers	Rear + front
		(Asymmetric Rail)	(Symmetric Rail)	outriggers
	m	mm	mm	mm
٧	1.85	6,300	6,500	7,450*
	2.05	6,050	6,250	7,200*
	2.25	6,550*	6,100	7,050*
W	1.85	3,000	3,000	3,000*
	2.05	3,050	3,050	3,050*
	2.25	3,100*	3,100	3,100*
X	1.85	8,300	8,500	9,450*
	2.05	8,150	8,350	9,300*
	2.25	8.150*	8.350	9.350*

	Stick	Offset two-piece boom 5.	00 m	
		without outriggers	without outriggers	Rear + front
		(Asymmetric Rail)	(Symmetric Rail)	outriggers
	m	mm	mm	mm
٧	1.85	6,750	6,950	7,350
	2.05	6,350	6,550	7,500*
	2.25	6,650*	6,150	7,150*
W	1.85	3,150	3,150	3,150
	2.05	3,150	3,150	3,150*
	2.25	3,150*	3,150	3,150*
Х	1.85	8,300	8,500	8,900
	2.05	8,150	8,350	9,300*
	2.25	8,800*	8,350	9,300*

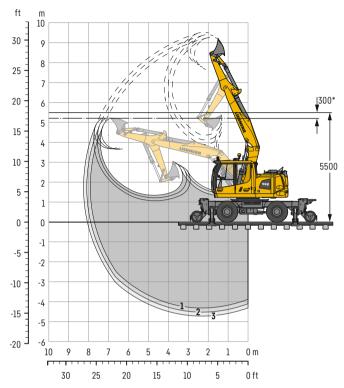


Boom	Stick	G	R	E	E1
	m	mm	mm	mm	mm
Two-piece boom 5.05 m	1.85	7,380	2,560	2,000	739
Two-piece boom 5.05 m	2.05	7,380	2,560	2,000	739
Two-piece boom 5.05 m	2.25	7.380	2.570	2.000	739

Dimensions are with attachment over steering axle
* Attachment over digging axle for shorter transport dimensions

Ditch cleaning bucket

with two-piece boom 5.05 m



Digging envelope

		1	2	3
Stick length	m	1.85	2.05	2.25
Max. digging depth	m	4.35	4.55	4.75
Max. reach at ground level	m	7.70	7.90	8.05
Max. dumping height	m	7.65	7.75	7.85
Max. dumping height under overhead wires	m	3.64	3.66	3.67
Max. teeth height	m	9.25	9.40	9.50
Min. equipment radius	m	2.56	2.56	2.57

Digging forces

		1	2	3
Max. digging force (ISO 6015)	kN	110.6	102.2	95.2
	t	11.3	10.4	9.7
Max. breakout force (ISO 6015)	kN	101.3	101.3	101.3
	t	10.3	10.3	10.3

Max. breakout force with ripper bucket

134.6 kN (13.7 t)

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 5.05 m, stick 2.25 m and ditch cleaning bucket 2,000 mm / 0.65 m³.

Undercarriage versions	Weight (kg)
A 922 Rail Litronic without outriggers (Asymmetric Rail)	20,400
A 922 Rail Litronic without outriggers (Symmetric Rail)	20,400
A 922 Rail Litronic with rear + front outriggers	22,100

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

_				V	vithout c	outrigger	S					Rear +	front ou	triggers					Nar	row gau	je 1,000	mm	
į	~			on rail			on tyres	;		on rail			on tyres	3		down			on rail			on tyres	
Cutting w	Capacity ISO 74511	Weight	Stic	k length	(m)	Stic	k length	ı (m)	Stic	k length	ı (m)	Stic	k length	n (m)	Stic	k lengtl	n (m)	Stic	k length:	ı (m)	Stic	, k length	(m)
mm	m³	kg	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25
1,6001)	0.50	330																					
1,8001)	0.57	360																		Δ			
2,0001)	0.65	390																Δ	Δ	Δ			
1,6002)	0.80	766	Δ	Δ	-				Δ	Δ	Δ							-	-	-			
2,0002)	0.70	811	Δ	Δ	Δ						Δ							-	-	-			

^{*} 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)

Max. material weight \blacksquare = \leq 1.8 t/m³, \blacksquare = \leq 1.5 t/m³, \triangle = \leq 1.2 t/m³, - = not authorised

^{*} Safety distance to overhead wires

²⁾ with 2 x 50° rotator

with two-piece boom 5.05 m (without outriggers)

Stic	k 1.85 m										Stick	(2.05)
1		3.0) m	4.5		6.0		1	~Ç	₽	t A	
∏¶ m	Undercarriage		Ŀ	-5)	Ŀ	- -		-S	Ŀ	m	m ∫ &	Undercar
7.5	on rail	6.9	8.5*					4.3	5.9*	4.0	7.5	on rail
7.5	on tyres	8.5*	8.5*					5.8	5.9*	4.0	7.5	on tyres
6.0	on rail	6.9	7.6*	3.8	6.9*			2.5	4.5*	5.6	6.0	on rail
0.0	on tyres	7.6*	7.6*	5.0	6.9*			3.4	4.5*	5.0	0.0	on tyres
4.5	on rail	6.7	10.3*	3.8	7.4*	2.3	6.1*	1.9	4.0*	6.5	4.5	on rail
4.5	on tyres	9.0	10.3*	5.0	7.4*	3.1	4.7	2.6	4.0*	0.5	4.5	on tyres
3.0	on rail	6.4	10.2*	3.8	8.4*	2.3	6.4*	1.7	3.8*	7.0	3.0	on rail
3.0	on tyres	8.7	10.2*	5.0	7.3	3.1	4.7	2.3	3.6	7.0	3.0	on tyres
1.5	on rail	6.4	12.4*	3.6	8.9*	2.2	6.6*	1.6	3.9*	7.1	1.5	on rail
1.5	on tyres	8.7	12.4*	4.9	7.3	3.0	4.6	2.2	3.5	7.1	1.5	on tyres
0	on rail	5.9	14.0*	3.4	9.0*	2.1	6.6*	1.7	4.2*	6.9	0	on rail
	on tyres	8.3	13.9	4.6	7.3	2.9	4.5	2.3	3.6	0.7	Ū	on tyres
-1.5	on rail	5.7	14.4*	3.2	9.2*	2.0	5.2*	1.9	4.3*	6.3	-1.5	on rail
-1.5	on tyres	8.1	14.4	4.4	7.0	2.8	4.4	2.6	4.1	0.5	-1.5	on tyres
-3.0	on rail	5.5	11.9*	3.1	5.7*			3.0	5.6*	4.5	-3.0	on rail
3.0	on tyres	7.9	11.9*	4.3	5.7*			4.2	5.6*	7.3	-3.0	on tyres

Stick	< 2.05 m									
. A		3.0) m	4.5	m	6.0	m	10	∕ Q	
m ∫_&	Undercarriage		j	- <u>-</u>	Ŀ	- <u>-</u>	Ŀ			m
7.5	on rail							3.9	4.8*	4.3
7.5	on tyres							4.8*	4.8*	4.3
6.0	on rail			3.8	6.7*			2.4	3.9*	5.8
0.0	on tyres			5.1	6.7*			3.2	3.9*	3.0
4.5	on rail	6.7	9.9*	3.8	7.3*	2.3	6.0*	1.9	3.5*	6.7
4.5	on tyres	9.0	9.9*	5.1	7.3*	3.2	4.8	2.6	3.5*	0.,
3.0	on rail	6.4	10.6*	3.8	8.3*	2.3	6.3*	1.6	3.4*	7.1
0.0	on tyres	8.7	10.6*	5.0	7.3	3.1	4.8	2.3	3.4*	,. <u>.</u>
1.5	on rail	6.4	12.4*	3.7	8.9*	2.3	6.6*	1.5	3.5*	7.2
1.0	on tyres	8.7	12.4*	4.9	7.3	3.1	4.7	2.2	3.4	7.2
0	on rail	5.9	14.0*	3.4	9.0*	2.1	6.6*	1.6	3.8*	7.0
	on tyres	8.3	13.9	4.7	7.4	2.9	4.5	2.2	3.5	7.0
-1.5	on rail	5.7	14.3*	3.2	9.2*	2.0	5.8*	1.8	4.4*	6.5
1.0	on tyres	8.1	14.3	4.4	7.1	2.8	4.4	2.5	3.9	0.5
-3.0	on rail	5.6	12.8*	3.1	6.6*			2.7	5.0*	5.0
3.0	on tyres	7.9	12.8*	4.3	6.6*			3.7	5.0*	0.0

Stick 2.25 m

A)		3.0) m	4.5	m	6.0	m	0	₽	
] ♥	Undercarriage	-47)		- <u>4</u>		 47)		-£	Ŀ	m
7.5	on rail			3.7	4.8*			3.5	4.1*	4.6
7.5	on tyres			4.8*	4.8*			4.1*	4.1*	4.0
6.0	on rail			3.9	6.4*	2.3	3.9*	2.3	3.4*	6.0
0.0	on tyres			5.1	6.4*	3.1	3.9*	3.1	3.4*	0.0
4.5	on rail	6.7	8.6*	3.8	7.0*	2.4	5.9*	1.8	3.1*	6.9
4.5	on tyres	8.6*	8.6*	5.1	7.0*	3.2	4.8	2.4	3.1*	0.9
3.0	on rail	6.4	10.9*	3.7	8.1*	2.4	6.2*	1.6	3.1*	7.3
3.0	on tyres	8.7	10.9*	5.0	7.3	3.2	4.8	2.2	3.1*	7.3
1.5	on rail	6.3	12.4*	3.7	8.8*	2.3	6.5*	1.5	3.2*	7,
1.5	on tyres	8.6	12.4*	4.9	7.3	3.1	4.7	2.1	3.2*	7.4
0	on rail	6.0	13.8*	3.4	8.9*	2.1	6.6*	1.5	3.5*	7.2
U	on tyres	8.4	13.8	4.7	7.4	2.9	4.6	2.1	3.3	7.2
-1.5	on rail	5.7	14.2*	3.2	9.2*	2.0	6.1*	1.7	4.1*	
-1.5	on tyres	8.1	14.1	4.4	7.1	2.8	4.4	2.4	3.8	6.7
7.0	on rail	5.5	13.5*	3.0	7.4*			2.4	4.5*	F 7
-3.0	on tyres	7.9	13.5*	4.2	6.9			3.3	4.5*	5.3

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

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering 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. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

with two-piece boom 5.05 m (without outriggers, heavy counterweight)

Stic	k 1.85 m										Stic	k 2.05 m									
1		3.0		4.5	m_	6.0	m	0	∕ ç		1		3.0) m	4.5	m	6.0	m	0	~ ₽	₽
m T∡ñ	Undercarriage	- 5)		- <u>-</u>	b	- <u>-</u>	ď	-5)	Ŀ	m	m T∡Ω	Undercarriage	-5	Ŀ	-4)	Ŀ	-	Ŀ	<u></u>	b	m
7.5	on rail	7.3	8.5*					4.6	5.9*	4.0	7.5	on rail							4.2	4.8*	4.3
7.5	on tyres	8.5*	8.5*					5.9*	5.9*	4.0	7.5	on tyres							4.8*	4.8*	4.0
6.0	on rail	7.4	7.6*	4.0	6.9*			2.7	4.5*	5.6	6.0	on rail			4.1	6.7*			2.6	3.9*	5.8
0.0	on tyres	7.6*	7.6*	5.3	6.9*			3.6	4.5*	5.0	0.0	on tyres			5.4	6.7*			3.5	3.9*	5.0
4.5	on rail	7.1	10.3*	4.1	7.4*	2.5	6.1*	2.1	4.0*	6.5	4.5	on rail	7.1	9.9*	4.1	7.3*	2.5	6.0*	2.0	3.5*	6.7
4.3	on tyres	9.5	10.3*	5.3	7.4*	3.3	5.0	2.8	4.0*	0.0	4.5	on tyres	9.5	9.9*	5.3	7.3*	3.4	5.1	2.7	3.5*	0.7
3.0	on rail	6.9	10.2*	4.0	8.4*	2.5	6.4*	1.8	3.8*	7.0	3.0	on rail	6.9	10.6*	4.0	8.3*	2.5	6.3*	1.8	3.4*	71
3.0	on tyres	9.2	10.2*	5.3	7.7	3.3	5.0	2.5	3.8*	7.0	3.0	on tyres	9.2	10.6*	5.3	7.7	3.4	5.1	2.4	3.4*	7.1
1.5	on rail	6.8	12.4*	3.9	8.9*	2.4	6.6*	1.8	3.9*	7.1	1.5	on rail	6.8	12.4*	3.9	8.9*	2.4	6.6*	1.7	3.5*	7.2
1.5	on tyres	9.1	12.4*	5.2	7.6	3.2	4.9	2.4	3.7	7.1	1.5	on tyres	9.1	12.4*	5.2	7.6	3.3	5.0	2.3	3.5*	1.2
0	on rail	6.3	14.0*	3.7	9.0*	2.3	6.6*	1.8	4.2*	6.9	0	on rail	6.4	14.0*	3.7	9.0*	2.3	6.6*	1.8	3.8*	7.0
U	on tyres	8.8	14.0*	5.0	7.8	3.1	4.8	2.5	3.9	0.9	U	on tyres	8.9	14.0*	5.0	7.8	3.1	4.8	2.4	3.7	7.0
	on rail	6.1	14.4*	3.4	9.2*	2.2	5.2*	2.1	4.3*	/ 7	-1.5	on rail	6.1	14.3*	3.5	9.2*	2.2	5.8*	2.0	4.4*	, -
-1.5	on tyres	8.6	14.4*	4.7	7.5	3.0	4.7	2.8	4.3*	6.3	-1.5	on tyres	8.6	14.3*	4.7	7.5	3.0	4.7	2.7	4.2	6.5
7.0	on rail	6.0	11.9*	3.3	5.7*			3.3	5.6*	, =	7.0	on rail	6.0	12.8*	3.3	6.6*			2.9	5.0*	E 0
-3.0	on tyres	8.5	11.9*	4.6	5.7*			4.5	5.6*	4.5	-3.0	on tyres	8.5	12.8*	4.6	6.6*			4.0	5.0*	5.0

Stick 2.25 m

. 1		3.0) m	4.5	m	6.0	m	0	þ	
Ţ ₹	Undercarriage			-5	6		Ŀ		5	m
	on rail			3.9	4.8*			3.8	4.1*	
7.5	on tyres			4.8*	4.8*			4.1*	4.1*	4.6
	on rail			4.1	6.4*	2.5	3.9*	2.4	3.4*	6.0
6.0	on tyres			5.4	6.4*	3.3	3.9*	3.3	3.4*	0.0
4.5	on rail	7.2	8.6*	4.1	7.0*	2.6	5.9*	1.9	3.1*	6.9
4.3	on tyres	8.6*	8.6*	5.3	7.0*	3.4	5.1	2.6	3.1*	0.9
3.0	on rail	6.9	10.9*	4.0	8.1*	2.6	6.2*	1.7	3.1*	7.3
3.0	on tyres	9.2	10.9*	5.3	7.7	3.4	5.1	2.3	3.1*	7.3
1.5	on rail	6.8	12.4*	4.0	8.8*	2.5	6.5*	1.6	3.2*	7.4
1.5	on tyres	9.1	12.4*	5.2	7.6	3.3	5.0	2.2	3.2*	7.4
0	on rail	6.4	13.8*	3.7	8.9*	2.3	6.6*	1.7	3.5*	7.2
U	on tyres	8.9	13.8*	5.0	7.7	3.2	4.8	2.3	3.5*	1.2
-1.5	on rail	6.1	14.2*	3.5	9.2*	2.2	6.1*	1.9	4.1*	6.7
-1.5	on tyres	8.6	14.2*	4.8	7.5	3.0	4.7	2.6	4.0	0.7
-3.0	on rail	6.0	13.5*	3.3	7.4*			2.6	4.5*	5.3
- 3.0	on tyres	8.5	13.5*	4.6	7.3			3.6	4.5*	3.3

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

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering 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. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

with two-piece boom 5.05 m (rear + front outriggers)

Stick	1.85	m
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.A		3.0	3.0 m		4.5 m		6.0 m			
m m	Undercarriage	-5		5	j	50	j	5	5	m
	on rail	7.3	8.5*	-			500	4.6	5.9*	
7.5	on tyres	8.5*	8.5*					5.9*	5.9*	4.0
	rear + front outriggers down	8.5*	8.5*					5.9*	5.9*	
	on rail	7.3	7.6*	4.0	6.9*			2.7	4.5*	
6.0	on tyres	7.6*	7.6*	5.4	6.9*			3.7	4.5*	5.6
	rear + front outriggers down	7.6*	7.6*	6.7	6.9*			4.5*	4.5*	
	on rail	7.1	10.3*	4.1	7.4*	2.5	6.1*	2.1	4.0*	
4.5	on tyres	9.6	10.3*	5.4	7.4*	3.4	5.1	2.9	4.0*	6.5
	rear + front outriggers down	10.3*	10.3*	6.6	7.4*	4.3	6.1*	3.7	4.0*	
	on rail	6.9	10.2*	4.0	8.4*	2.5	6.4*	1.8	3.8*	İ
3.0		9.3	10.2*	5.3	7.8	3.4	5.1	2.6	3.8*	7.0
	rear + front outriggers down		10.2*	6.5	8.4*	4.2	6.4*	3.3	3.8*	
	on rail	6.8	12.4*	3.9	8.9*	2.4	6.6*	1.8	3.9*	
1.5		9.2	12.4*	5.3	7.8	3.3	5.0	2.5	3.8	7.1
	rear + front outriggers down	11.7	12.4*	6.6	8.9*	4.2	6.6*	3.1	3.9*	
	on rail	6.3	14.0*	3.7	9.0*	2.3	6.6*	1.8	4.2*	
0	on tyres	8.9	14.0*	5.0	7.9	3.2	4.9	2.5	3.9	6.9
	rear + front outriggers down	11.9	14.0*	6.4	9.0*	4.0	6.6*	3.3	4.2*	
	on rail	6.1	14.4*	3.4	9.2*	2.2	5.2*	2.1	4.3*	
-1.5	on tyres	8.7	14.4*	4.8	7.6	3.1	4.8	2.9	4.3*	6.3
	rear + front outriggers down	11.7	14.4*	6.1	9.2*	3.9	5.2*	3.7	4.3*	
	on rail	6.0	11.9*	3.3	5.7*			3.3	5.6*	
-3.0	on tyres	8.6	11.9*	4.7	5.7*			4.6	5.6*	4.5
	rear + front outriggers down	11.6	11.9*	5.7*	5.7*			5.6*	5.6*	ı

Stick 2.05 m

Ottok 2:00 III											
1		3.0) m	4.5	m	6.0	m	1	~ ₽	₽	
m TÆL	Undercarriage	5	Ď	- <u>-</u>	Ŀ	- <u>-</u>	Ġ	- <u>5</u>	6	m	
7.5	on rail on tyres rear + front outriggers down							4.2 4.8* 4.8*	4.8* 4.8* 4.8*	4.3	
6.0	on rail on tyres rear + front outriggers down			4.1 5.5 6.7*	6.7* 6.7* 6.7*			2.6 3.5 3.9*	3.9* 3.9* 3.9*	5.8	
4.5	on rail on tyres rear + front outriggers down	7.1 9.6 9.9*	9.9* 9.9* 9.9*	4.1 5.4 6.7	7.3* 7.3* 7.3*	2.5 3.4 4.3	6.0* 5.2 6.0*	2.0 2.8 3.5*	3.5* 3.5* 3.5*	6.7	
3.0	on rail on tyres rear + front outriggers down	6.9 9.3 10.6*	10.6* 10.6* 10.6*	4.0 5.3 6.6	8.3* 7.8 8.3*	2.5 3.4 4.3	6.3* 5.1 6.3*	1.8 2.5 3.2	3.4* 3.4* 3.4*	7.1	
1.5	on rail on tyres rear + front outriggers down	6.8 9.2 11.7	12.4* 12.4* 12.4*	3.9 5.3 6.5	8.9* 7.7 8.9*	2.4 3.3 4.2	6.6* 5.1 6.6*	1.7 2.4 3.0	3.5* 3.5* 3.5*	7.2	
0	on rail on tyres rear + front outriggers down	6.4 9.0 11.9	14.0* 14.0* 14.0*	3.7 5.0 6.4	9.0* 7.9 9.0*	2.3 3.2 4.1	6.6* 4.9 6.6*	1.8 2.5 3.2	3.8* 3.8 3.8*	7.0	
-1.5	on rail on tyres rear + front outriggers down	6.1 8.7 11.7	14.3* 14.3* 14.3*	3.5 4.8 6.2	9.2* 7.6 9.2*	2.2 3.1 4.0	5.8* 4.8 5.8*	2.0 2.8 3.5	4.4* 4.3 4.4*	6.5	
-3.0	on rail on tyres rear + front outriggers down	6.0 8.6 11.6	12.8* 12.8* 12.8*	3.3 4.6 6.0	6.6* 6.6* 6.6*			2.9 4.0 5.0*	5.0* 5.0* 5.0*	5.0	

Stick 2.25 m

A		3.0) m	4.5	m	6.0	m	1	~ <u>p</u>	₽
11			J.	ann.	1.	000	J.	200	L.	
m	Undercarriage	-47	밥	-5	밤	−£ ")	밤	-47	밥	m
	on rail			3.9	4.8*			3.8	4.1*	
7.5	on tyres			4.8*	4.8*			4.1*	4.1*	4.6
	rear + front outriggers down			4.8*	4.8*			4.1*	4.1*	
	on rail			4.1	6.4*	2.5	3.9*	2.4	3.4*	i
6.0	. /			5.5	6.4*	3.4	3.9*	3.3	3.4*	6.0
	rear + front outriggers down			6.4*	6.4*	3.9*	3.9*	3.4*	3.4*	
	on rail	7.2	8.6*	4.1	7.0*	2.6	5.9*	1.9	3.1*	
4.5	on tyres	8.6*	8.6*	5.4	7.0*	3.5	5.2	2.7	3.1*	6.9
	rear + front outriggers down	8.6*	8.6*	6.7	7.0*	4.3	5.9*	3.1*	3.1*	
	on rail	6.9	10.9*	4.0	8.1*	2.6	6.2*	1.7	3.1*	
3.0	*** -/ ***	9.3	10.9*	5.3	7.8	3.4	5.2	2.4	3.1*	7.3
	rear + front outriggers down		10.9*	6.5	8.1*	4.3	6.2*	3.0	3.1*	
	on rail	6.8	12.4*	4.0	8.8*	2.5	6.5*	1.6	3.2*	
1.5	on tyres	9.2	12.4*	5.3	7.7	3.4	5.1	2.3	3.2*	7.4
	rear + front outriggers down	11.7	12.4*	6.5	8.8*	4.2	6.5*	2.9	3.2*	
	on rail	6.4	13.8*	3.7	8.9*	2.3	6.6*	1.7	3.5*	
0	on tyres	9.0	13.8*	5.1	7.8	3.2	4.9	2.4	3.5*	7.2
	rear + front outriggers down	11.8	13.8*	6.5	8.9*	4.1	6.6*	3.0	3.5*	
	on rail	6.1	14.2*	3.5	9.2*	2.2	6.1*	1.9	4.1*	
-1.5	on tyres	8.7	14.2*	4.8	7.6	3.1	4.8	2.6	4.1*	6.7
	rear + front outriggers down	11.7	14.2*	6.2	9.2*	4.0	6.1*	3.4	4.1*	
	on rail	6.0	13.5*	3.3	7.4*			2.6	4.5*	
- 3.0	on tyres	8.6	13.5*	4.6	7.4*			3.6	4.5*	5.3
	rear + front outriggers down	11.5	13.5*	6.0	7.4*			4.5*	4.5*	

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

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

with two-piece boom 5.05 m (rear + front outriggers, heavy counterweight)

Stic	k 1.85 m									
S		3.0) m	4.5	m	6.0 m		1	~ <u>_</u>	<u></u>
Ĭ ∜	Undercarriage	- <u>4</u>	Ŀ	- <u>4</u>	Ŀ	- <u>4</u>		- <u>-</u>		m
7.5	on rail on tyres rear + front outriggers down	7.8 8.5* 8.5*	8.5* 8.5* 8.5*					4.9 5.9* 5.9*	5.9* 5.9* 5.9*	4.0
6.0	on rail on tyres rear + front outriggers down	7.6* 7.6* 7.6*	7.6* 7.6* 7.6*	4.3 5.7 6.9*	6.9* 6.9* 6.9*			2.9 3.9 4.5*	4.5* 4.5* 4.5*	5.6
4.5	on rail on tyres rear + front outriggers down	7.5 10.0 10.3*	10.3* 10.3* 10.3*	4.4 5.7 7.0	7.4* 7.4* 7.4*	2.7 3.6 4.5	6.1* 5.4 6.1*	2.3 3.1 3.9	4.0* 4.0* 4.0*	6.5
3.0	on rail on tyres rear + front outriggers down	7.3 9.7 10.2*	10.2* 10.2* 10.2*	4.3 5.6 6.9	8.4* 8.1 8.4*	2.7 3.6 4.5	6.4* 5.4 6.4*	2.0 2.7 3.5	3.8* 3.8* 3.8*	7.0
1.5	on rail on tyres rear + front outriggers down	7.3 9.7 12.3	12.4* 12.4* 12.4*	4.2 5.6 6.9	8.9* 8.1 8.9*	2.6 3.5 4.4	6.6* 5.3 6.6*	1.9 2.6 3.4	3.9* 3.9* 3.9*	7.1
0	on rail on tyres rear + front outriggers down	6.8 9.5 12.5	14.0* 14.0* 14.0*	4.0 5.3 6.8	9.0* 8.3 9.0*	2.5 3.4 4.3	6.6* 5.2 6.6*	2.0 2.7 3.5	4.2* 4.2 4.2*	6.9
-1.5	on rail on tyres rear + front outriggers down	6.6 9.3 12.4	14.4* 14.4* 14.4*	3.7 5.1 6.5	9.2* 8.0 9.2*	2.4 3.3 4.2	5.2* 5.1 5.2*	2.3 3.1 3.9	4.3* 4.3* 4.3*	6.3
-3.0	on rail on tyres rear + front outriggers down	6.4 9.1 11.9*	11.9* 11.9* 11.9*	3.6 5.0 5.7*	5.7* 5.7* 5.7*			3.6 4.9 5.6*	5.6* 5.6* 5.6*	4.5

Stic	k 2.05 m									
À		3.0) m	4.5 m		6.0 m		0	~ ₽	₽
m ∫_£	Undercarriage		Ġ		Ŀ	-4)	Ŀ		b	m
7.5	on rail on tyres rear + front outriggers down							4.5 4.8* 4.8*	4.8* 4.8* 4.8*	4.3
6.0	on rail on tyres rear + front outriggers down			4.4 5.8 6.7*	6.7* 6.7* 6.7*			2.8 3.7 3.9*	3.9* 3.9* 3.9*	5.8
4.5	on rail on tyres rear + front outriggers down	7.6 9.9* 9.9*	9.9* 9.9* 9.9*	4.4 5.7 7.0	7.3* 7.3* 7.3*	2.7 3.6 4.6	6.0* 5.5 6.0*	2.2 3.0 3.5*	3.5* 3.5* 3.5*	6.7
3.0	on rail on tyres rear + front outriggers down	7.3 9.8 10.6*	10.6* 10.6* 10.6*	4.3 5.6 6.9	8.3* 8.1 8.3*	2.7 3.6 4.5	6.3* 5.4 6.3*	1.9 2.7 3.4	3.4* 3.4* 3.4*	7.1
1.5	on rail on tyres rear + front outriggers down	7.3 9.7 12.3	12.4* 12.4* 12.4*	4.2 5.6 6.8	8.9* 8.1 8.9*	2.6 3.5 4.5	6.6* 5.3 6.6*	1.9 2.6 3.2	3.5* 3.5* 3.5*	7.2
0	on rail on tyres rear + front outriggers down	6.8 9.6 12.4	14.0* 14.0* 14.0*	4.0 5.4 6.8	9.0* 8.2 9.0*	2.5 3.4 4.3	6.6* 5.2 6.6*	1.9 2.6 3.4	3.8* 3.8* 3.8*	7.0
-1.5	on rail on tyres rear + front outriggers down	6.6 9.3 12.4	14.3* 14.3* 14.3*	3.7 5.1 6.5	9.2* 8.1 9.2*	2.4 3.3 4.2	5.8* 5.1 5.8*	2.2 3.0 3.8	4.4* 4.4* 4.4*	6.5
-3.0	on rail on tyres rear + front outriggers down	6.4 9.1 12.2	12.8* 12.8* 12.8*	3.6 5.0 6.4	6.6* 6.6* 6.6*			3.1 4.3 5.0*	5.0* 5.0* 5.0*	5.0

Stick 2.25 m

	S)		3.0) m	4.5	m	6.0	m	6	~ □	þ
14				1		3		1		J	•
	m	Undercarriage	-47		-47	법	<u>~₹</u> ")		-47		m
		on rail			4.2	4.8*			4.1	4.1*	
	7.5	on tyres			4.8*	4.8*			4.1*	4.1*	4.6
		rear + front outriggers down			4.8*	4.8*			4.1*	4.1*	
		on rail			4.4	6.4*	2.7	3.9*	2.6	3.4*	
	6.0	on tyres			5.8	6.4*	3.6	3.9*	3.4*	3.4*	6.0
		rear + front outriggers down			6.4*	6.4*	3.9*	3.9*	3.4*	3.4*	
		on rail	7.6	8.6*	4.4	7.0*	2.8	5.9*	2.1	3.1*	
	4.5	on tyres	8.6*	8.6*	5.7	7.0*	3.7	5.5	2.9	3.1*	6.9
		rear + front outriggers down	8.6*	8.6*	7.0	7.0*	4.6	5.9*	3.1*	3.1*	
		on rail	7.3	10.9*	4.3	8.1*	2.7	6.2*	1.9	3.1*	
	3.0	on tyres	9.8	10.9*	5.6	8.1*	3.7	5.4	2.6	3.1*	7.3
		rear + front outriggers down	10.9*	10.9*	6.8	8.1*	4.6	6.2*	3.1*	3.1*	
		on rail	7.2	12.4*	4.2	8.8*	2.7	6.5*	1.8	3.2*	
	1.5	on tyres	9.7	12.4*	5.6	8.1	3.6	5.4	2.5	3.2*	7.4
		rear + front outriggers down	12.2	12.4*	6.8	8.8*	4.5	6.5*	3.1	3.2*	
		on rail	6.8	13.8*	4.0	8.9*	2.5	6.6*	1.8	3.5*	
	0	on tyres	9.6	13.8*	5.4	8.1	3.4	5.2	2.5	3.5*	7.2
		rear + front outriggers down	12.4	13.8*	6.8	8.9*	4.3	6.6*	3.2	3.5*	
		on rail	6.6	14.2*	3.8	9.2*	2.4	6.1*	2.0	4.1*	
-	1.5	on tyres	9.3	14.2*	5.1	8.1	3.3	5.1	2.8	4.1*	6.7
		rear + front outriggers down	12.4	14.2*	6.6	9.2*	4.2	6.1*	3.6	4.1*	
		on rail	6.4	13.5*	3.6	7.4*			2.8	4.5*	
-	3.0	on tyres	9.1	13.5*	4.9	7.4*			3.9	4.5*	5.3
		rear + front outriggers down	12.2	13.5*	6.4	7.4*			4.5*	4.5*	

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

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

with two-piece boom 5.05 m (heavy counterweight), narrow gauge 1,000 mm

Stic	k 1.85 m									Sticl	c 2.05 m									
1		3.0 m	4	.5 m	6.0	m	0	~ <u>_</u>	₽	.1		3.0) m	4.5	m	6.0	m	0	~ ₽	⊋
m Ţ.£L	Undercarriage	(] 	b	- 4 0	Ġ	- -		m	ζ m	Undercarriage			- 5)	Ь	-		- 5)		m
7.5	on rail	5.4 8					3.1	5.6*	4.2	7.5	on rail							2.9	4.7*	4.5
	on tyres	8.5* 8	.5*				5.9*	5.9*			on tyres							4.8*	4.8*	
6.0	on rail	5.4 7	.6* 3.0	6.9*			1.9	4.4*	5.7	6.0	on rail	5.4	6.9*	3.1	6.7*			1.8	3.8*	5.9
0.0	on tyres	7.6* 7	.6* 5.3	6.9*			3.6	4.5*	5.7	0.0	on tyres			5.4	6.7*			3.5	3.9*	5.7
4.5	on rail	5.1 10	.1* 3.0	7.5*	1.8	5.6	1.5	4.0*	6.6	4.5	on rail	5.2	10.2*	3.0	7.3*	1.8	5.7	1.4	3.5*	6.8
4.3	on tyres	9.5 10	.3* 5.3	7.4*	3.3	5.0	2.8	4.0*	0.0	4.0	on tyres	9.5	9.9*	5.3	7.3*	3.4	5.1	2.7	3.5*	0.0
7.0	on rail	4.9 10	.3* 3.0	8.4	1.8	5.6	1.3	3.8*	7.0	7.0	on rail	5.0	10.8*	3.0	8.4*	1.8	5.7	1.2	3.4*	7.0
3.0	on tyres	9.2 10	.2* 5.3	7.7	3.3	5.0	2.5	3.8*	7.0	3.0	on tyres	9.2	10.6*	5.3	7.7	3.4	5.1	2.4	3.4*	7.2
	on rail	4.9 12	.6* 2.8	8.4	1.7	5.5	1.2	3.9*	- 1	1.5	on rail	4.9	12.6*	2.9	8.4	1.7	5.6	1.2	3.5*	7.0
1.5	on tyres	9.1 12	.4* 5.2	7.6	3.2	4.9	2.4	3.7	7.1	1.5	on tyres	9.1	12.4*	5.2	7.6	3.3	5.0	2.3	3.5*	7.2
•	on rail	4.4 14	.1* 2.6	8.5	1.6	5.4	1.2	4.2*		•	on rail	4.5	14.1*	2.7	8.5	1.6	5.4	1.2	3.9*	7.0
0	on tyres	8.8 14	.0* 5.0	7.8	3.1	4.8	2.5	3.9	6.8	0	on tyres	8.9	14.0*	5.0	7.8	3.1	4.8	2.4	3.7	7.0
	on rail	4.3 14	.4* 2.4	8.3	1.5	4.9*	1.5	4.2*			on rail	4.3	14.4*	2.4	8.4	1.5	5.3	1.4	4.3*	
-1.5	on tyres	8.6 14	.4* 4.7	7.5	3.0	4.7	2.8	4.3*	6.2	-1.5	on tyres	8.6	14.3*	4.7	7.5	3.0	4.7	2.7	4.2	6.4
7.0	on rail	4.2 11	.0*				2.6	6.1*		7.0	on rail	4.1	12.1*	2.3	6.0*			2.2	5.4*	
-3.0	on tyres	8.5 11	.9* 4.6	5.7*			4.5	5.6*	4.2	-3.0	on tyres	8.5	12.8*	4.6	6.6*			4.0	5.0*	4.7

Stick 2.25 m

.A		3.0	3.0 m		4.5 m		6.0 m			
m ∫ %	Undercarriage	- <u>-</u>		- .	5	 (1)	Ŀ	<u>-</u>	5	m
7.5	on rail			2.9	5.6*			2.6	4.0*	4.8
7.5	on tyres			4.8*	4.8*			4.1*	4.1*	4.0
6.0	on rail			3.1	6.5*	1.8	4.7*	1.7	3.3*	6.2
0.0	on tyres			5.4	6.4*	3.3	3.9*	3.3	3.4*	0.2
4.5	on rail	5.2	9.8*	3.0	7.1*	1.9	5.7	1.3	3.1*	6.9
4.5	on tyres	8.6*	8.6*	5.3	7.0*	3.4	5.1	2.6	3.1*	0.9
3.0	on rail	4.9	11.1*	3.0	8.2*	1.9	5.6	1.2	3.1*	7.7
3.0	on tyres	9.2	10.9*	5.3	7.7	3.4	5.1	2.3	3.1*	7.3
1.5	on rail	4.9	12.5*	2.9	8.3	1.8	5.6	1.1	3.2*	7/
1.5	on tyres	9.1	12.4*	5.2	7.6	3.3	5.0	2.2	3.2*	7.4
0	on rail	4.5	13.9*	2.7	8.4	1.6	5.4	1.1	3.5*	7.2
U	on tyres	8.9	13.8*	5.0	7.7	3.2	4.8	2.3	3.5*	1.2
16	on rail	4.3	14.3*	2.5	8.4	1.5	5.3	1.3	4.1*	,,
-1.5	on tyres	8.6	14.2*	4.8	7.5	3.0	4.7	2.6	4.0	6.6
7.0	on rail	4.1	13.0*	2.3	6.8*			1.9	4.8*	E 1
-3.0	on tyres	8.5	13.5*	4.6	7.3			3.6	4.5*	5.1

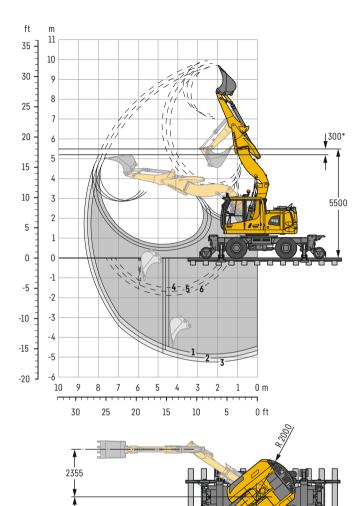
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach *Limited by hydr. capacity

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering 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. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

Backhoe bucket

with offset two-piece boom 5.00 m



Digging envelope

Stick length m 1.85 2.05 2.25 Max. digging depth m 4.85 5.05 5.25 Max. reach at ground level m 8.20 8.40 8.55 Max. dumping height m 7.05 7.15 7.25 Max. dumping height under overhead wires m 2.85 2.85 2.85 Max. teeth height m 9.70 9.70 9.95 Min. equipment radius m 2.58 2.57 2.56			1	2	3
Max. reach at ground level m 8.20 8.40 8.55 Max. dumping height m 7.05 7.15 7.25 Max. dumping height under overhead wires m 2.85 2.85 2.85 Max. teeth height m 9.70 9.80 9.95	Stick length	m	1.85	2.05	2.25
Max. dumping height m 7.05 7.15 7.25 Max. dumping height under overhead wires m 2.85 2.85 2.85 Max. teeth height m 9.70 9.80 9.95	Max. digging depth	m	4.85	5.05	5.25
Max. dumping height under overhead wires m 2.85 2.85 2.85 Max. teeth height m 9.70 9.80 9.95	Max. reach at ground level	m	8.20	8.40	8.55
Max. teeth height m 9.70 9.80 9.95	Max. dumping height	m	7.05	7.15	7.25
	Max. dumping height under overhead wires	m	2.85	2.85	2.85
Min. equipment radius m 2.58 2.57 2.56	Max. teeth height	m	9.70	9.80	9.95
	Min. equipment radius	m	2.58	2.57	2.56

1 with stick 1.85 m	4 with stick 1.85 m
2 with stick 2.05 m	5 with stick 2.05 m
3 with stick 2.25 m	6 with stick 2.25 m

with set straight boom at max. equipment offset with vertical ditch walls

Digging forces

		1	2	3
Max. digging force (ISO 6015)	kN	110.6	102.2	95.2
	t	11.3	10.4	9.7
Max. breakout force (ISO 6015)	kN	101.3	101.3	101.3
	t	10.3	10.3	10.3

Max. breakout force with ripper bucket 134.6 kN (13.7 t)

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, offset two-piece boom 5.00~m, stick 2.25~m and bucket $850~mm/0.60~m^3$.

Undercarriage versions	Weight (kg)
A 922 Rail Litronic without outriggers (Asymmetric Rail)	21,100
A 922 Rail Litronic without outriggers (Symmetric Rail)	21,100
A 922 Rail Litronic with rear + front outriggers	22.800

* Safety distance to overhead wires

2370

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

_					without o	utriggers						Rear +	front outri	ggers			
width	=			on rail			on tyres			on rail			on tyres			down	
a Cutting w 是 Capacity 的 7451 答 Weight			St	ick length (ı	m)	St	ick length ((m)	St	ick length (ı	n)	St	ick length (m)	Sti	ick length (ı	m)
mm	m³	kg	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25	1.85	2.05	2.25
400	0.24	310															
650	0.45	348															
850	0.60	401															
1,050	0.80	480	Δ	Δ	-					Δ	Δ						
1,250	0.95	525	-	-	-				Δ	Δ	-						

^{*} 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)

Max. material weight \blacksquare = \leq 1.8 t/m³, \blacksquare = \leq 1.5 t/m³, \triangle = \leq 1.2 t/m³, - = not authorised

with offset two-piece boom 5.00 m (without outriggers)

Stic	k 1.85 m										Stic	k 2.05 m									
1		3.0) m	4.5	m	6.0	m	0	~ ⊊	₽	1	:	3.0	0 m	4.5	m	6.0) m	1	~ ₽	⊋
w T∡î	Undercarriage	- ₽		-£)	Ŀ	-5)		- -		m	m T∡û	Undercarriage	-4.	. L	- 5)		- -	Ŀ	- -		m
7.5	on rail	6.9	8.3*					4.3	5.4*	3.9	7.5	on rail							3.9	4.5*	4.2
7.5	on tyres	8.3*	8.3*					5.4*	5.4*	3.7	7.5	on tyres							4.5*	4.5*	7.2
6.0	on rail	6.9	7.8*	3.7	6.6*			2.4	4.1*	5.6	6.0	on rail			3.8	6.4*			2.3	3.6*	5.8
0.0	on tyres	7.8*	7.8*	5.0	6.6*			3.3	4.1*	on tyre	on tyres			5.0	6.4*			3.1	3.6*	3.0	
4.5	on rail	6.6	9.9*	3.7	7.1*	2.1	5.9*	1.8	3.7*	6.5	4.5	on rail	6.6	9.5*	3.8	7.0*	2.2	5.8*	1.7	3.2*	6.7
4.5	on tyres	8.9	9.9*	5.0	7.1*	2.9	4.6	2.5	3.7*	on tyr	on tyres	9.0	9.5*	5.0	7.0*	3.0	4.7	2.4	3.2*	0.7	
3.0	on rail	6.3	9.9*	3.7	8.0*	2.1	6.1*	1.5	3.6*	6.9	3.0	on rail	6.3	10.4*	3.7	7.9*	2.2	6.1*	1.5	3.2*	7.1
3.0	on tyres	8.5	9.9*	4.9	7.2	2.9	4.6	2.2	3.5	0.7	3.0	on tyres	8.6	10.4*	4.9	7.2	3.0	4.7	2.1	3.2*	7.1
1.5	on rail	6.2	12.1*	3.5	8.5*	2.0	6.3*	1.4	3.6*	7.0	1.5	on rail	6.2	12.1*	3.6	8.5*	2.1	6.3*	1.4	3.3*	7.2
1.5	on tyres	8.5	12.1*	4.8	7.1	2.9	4.5	2.1	3.3	7.0	1.5	on tyres	8.5	12.1*	4.9	7.1	2.9	4.6	2.0	3.2	1.2
0	on rail	5.7	13.6*	3.3	8.6*	1.9	6.4*	1.4	3.9*	6.8	0	on rail	5.8	13.5*	3.3	8.6*	1.9	6.4*	1.4	3.6*	7.0
U	on tyres	8.1	13.5	4.5	7.3	2.7	4.3	2.1	3.5	0.0	U	on tyres	8.2	13.4	4.6	7.3	2.7	4.4	2.1	3.3	7.0
-1.5	on rail	5.4	14.0*	3.0	8.9*	1.8	5.0*	1.7	4.2*	6.2	-1.5	on rail	5.5	13.9*	3.0	8.9*	1.8	5.5*	1.6	4.2*	6.4
-1.5	on tyres	7.8	14.0*	4.2	6.9	2.6	4.2	2.4	4.0	0.2	-1.5	on tyres	7.9	13.9	4.2	6.9	2.6	4.2	2.3	3.8	0.4
-3.0	on rail	5.3	11.5*	2.8	5.3*			2.8	5.3*	4.5	-3.0	on rail	5.3	12.4*	2.8	6.3*			2.4	4.7*	E 0
-3.0	on tyres	7.6	11.5*	4.0	5.3*			4.0	5.3*	4.0	- 3.0	on tyres	7.6	12.4*	4.0	6.3*			3.5	4.7*	5.0

Stick 2.25 m

. 1		3.0) m	4.5	m	6.0	m	0	∕ ç	₽
m ∫ £ l	Undercarriage				6	<u>~~~</u>	Ŀ		5	m
٠.	on rail			3.5	4.0*			3.5	3.8*	
7.5	on tyres			4.0*	4.0*			3.8*	3.8*	4.5
6.0	on rail			3.8	6.2*	2.1	3.1*	2.1	3.1*	6.0
0.0	on tyres			5.1	6.2*	3.0	3.1*	3.0	3.1*	0.0
4.5	on rail	6.7	8.9*	3.8	6.8*	2.2	5.6*	1.6	2.9*	6.8
4.0	on tyres	8.9*	8.9*	5.0	6.8*	3.1	4.7	2.3	2.9*	0.0
3.0	on rail	6.3	10.7*	3.7	7.7*	2.2	6.0*	1.4	2.9*	7.3
3.0	on tyres	8.6	10.7*	4.9	7.2	3.1	4.7	2.0	2.9*	7.3
1.5	on rail	6.2	12.1*	3.6	8.4*	2.1	6.2*	1.3	3.0*	7.4
1.5	on tyres	8.4	12.1*	4.9	7.1	3.0	4.6	1.9	3.0*	7.4
0	on rail	5.8	13.4*	3.3	8.6*	2.0	6.3*	1.3	3.2*	7.2
U	on tyres	8.2	13.3	4.6	7.3	2.8	4.4	2.0	3.2	1.2
-1.5	on rail	5.4	13.8*	3.0	8.9*	1.8	5.8*	1.5	3.8*	6.6
-1.5	on tyres	7.9	13.8	4.3	6.9	2.6	4.2	2.2	3.6	0.0
-3.0	on rail	5.2	13.1*	2.8	7.0*			2.3	4.5*	5.0
- 3.0	on tyres	7.6	13.1*	4.0	6.7			3.3	4.5*	J.U

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

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering 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. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

with offset two-piece boom 5.00 m (without outriggers, heavy counterweight)

Sticl	k 1.85 m										Stic	< 2.05 m									
1		3.0	m	4.5	m	6.0	m	0	~Ç	þ	1		3.0) m	4.5	m	6.0	m	6	~Q	₽
m Ţ.£	Undercarriage	5		 []	Ŀ	- €⊃	Ŀ	- <u>-</u>	Ŀ	m	m T.A.L	Undercarriage			- <u>-</u>	Ġ	- -	Ŀ	 5⊃	Ŀ	m
7.5	on rail	7.3	8.3*					4.6	5.4*	3.9	7.5	on rail							4.2	4.5*	4.2
7.0	on tyres	8.3*	8.3*					5.4*	5.4*	"	7.0	on tyres							4.5*	4.5*	
6.0	on rail	7.4	7.8*	4.0	6.6*			2.6	4.1*	5.6	6.0	on rail			4.0	6.4*			2.5	3.6*	5.8
0.0	on tyres	7.8*	7.8*	5.3	6.6*			3.5	4.1*	0.0	0.0	on tyres			5.3	6.4*			3.4	3.6*	0.0
4.5	on rail	7.0	9.9*	4.0	7.1*	2.3	5.9*	1.9	3.7*	6.5	4.5	on rail	7.1	9.5*	4.0	7.0*	2.4	5.8*	1.9	3.2*	6.7
4.5	on tyres	9.3	9.9*	5.3	7.1*	3.2	4.9	2.7	3.7*	0.5	4.0	on tyres	9.4	9.5*	5.3	7.0*	3.2	5.0	2.6	3.2*	0.7
3.0	on rail	6.7	9.9*	4.0	8.0*	2.3	6.1*	1.7	3.6*	6.9	3.0	on rail	6.8	10.4*	4.0	7.9*	2.4	6.1*	1.6	3.2*	7.1
3.0	on tyres	9.0	9.9*	5.2	7.5	3.2	4.9	2.4	3.6*	0.7	3.0	on tyres	9.0	10.4*	5.2	7.5	3.2	5.0	2.3	3.2*	7.1
1.5	on rail	6.7	12.1*	3.8	8.5*	2.2	6.3*	1.6	3.6*	7.0	1.5	on rail	6.7	12.1*	3.9	8.5*	2.3	6.3*	1.5	3.3*	7.2
1.5	on tyres	8.9	12.1*	5.1	7.5	3.1	4.8	2.2	3.6	7.0	1.5	on tyres	8.9	12.1*	5.2	7.5	3.1	4.8	2.2	3.3*	7.2
0	on rail	6.1	13.6*	3.6	8.6*	2.1	6.4*	1.6	3.9*	6.8	0	on rail	6.2	13.5*	3.6	8.6*	2.1	6.4*	1.6	3.6*	7.0
U	on tyres	8.7	13.6*	4.8	7.7	2.9	4.6	2.3	3.7	0.0	U	on tyres	8.7	13.5*	4.9	7.7	3.0	4.7	2.2	3.6*	7.0
-1.5	on rail	5.9	14.0*	3.2	8.9*	2.0	5.0*	1.9	4.2*	6.2	-1.5	on rail	5.9	13.9*	3.3	8.9*	2.0	5.5*	1.8	4.2*	6.4
-1.5	on tyres	8.4	14.0*	4.5	7.3	2.8	4.5	2.7	4.2*	0.2	-1.5	on tyres	8.4	13.9*	4.5	7.3	2.8	4.5	2.5	4.1	0.4
-3.0	on rail	5.7	11.5*	3.1	5.3*			3.1	5.3*	4.5	-3.0	on rail	5.7	12.4*	3.1	6.3*			2.7	4.7*	5.0
-3.0	on tyres	8.2	11.5*	4.4	5.3*			4.3	5.3*	4.3	-3.0	on tyres	8.2	12.4*	4.3	6.3*			3.8	4.7*	3.0

Stick 2.25 m

.A		3.0) m	4.5	m	6.0	m	1	∕ ç	
m ∫_A	Undercarriage			-5	6		Ŀ		5	m
	on rail	_		3.8	4.0*			3.8	3.8*	
7.5	on tyres			4.0*	4.0*			3.8*	3.8*	4.5
	on rail			4.1	6.2*	2.3	3.1*	2.3	3.1*	
6.0	on tyres			5.4	6.2*	3.1*	3.1*	3.1*	3.1*	6.0
4.5	on rail	7.1	8.9*	4.0	6.8*	2.4	5.6*	1.8	2.9*	
4.5	on tyres	8.9*	8.9*	5.3	6.8*	3.3	5.0	2.5	2.9*	6.8
3.0	on rail	6.8	10.7*	3.9	7.7*	2.4	6.0*	1.5	2.9*	7.3
3.0	on tyres	9.0	10.7*	5.2	7.5	3.3	5.0	2.2	2.9*	7.3
1.5	on rail	6.6	12.1*	3.9	8.4*	2.3	6.2*	1.5	3.0*	7.4
1.5	on tyres	8.9	12.1*	5.2	7.4	3.2	4.9	2.1	3.0*	7.4
0	on rail	6.2	13.4*	3.6	8.6*	2.2	6.3*	1.5	3.2*	7.2
U	on tyres	8.8	13.4*	4.9	7.6	3.0	4.7	2.1	3.2*	1.2
-1.5	on rail	5.9	13.8*	3.3	8.9*	2.0	5.8*	1.7	3.8*	6.6
-1.5	on tyres	8.4	13.8*	4.6	7.4	2.8	4.5	2.4	3.8*	0.0
-3.0	on rail	5.7	13.1*	3.1	7.0*			2.5	4.5*	5.0
- 3.0	on tyres	8.2	13.1*	4.3	7.0*			3.6	4.5*	J.U

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

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering 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. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

with offset two-piece boom 5.00 m (rear + front outriggers)

Stic	k 1.85 m									
A		3.0) m	4.5	m	6.0	m	1	~ <u>_</u>	
޶ m	Undercarriage	-5)		- <u>-</u>	Ŀ	- <u>5</u>	Ŀ		5	m
7.5	on rail on tyres rear + front outriggers down	7.3 8.3* 8.3*	8.3* 8.3* 8.3*					4.6 5.4* 5.4*	5.4* 5.4* 5.4*	3.9
6.0	on rail on tyres rear + front outriggers down	7.4 7.8* 7.8*	7.8* 7.8* 7.8*	3.9 5.3 6.6*	6.6* 6.6* 6.6*			2.6 3.6 4.1*	4.1* 4.1* 4.1*	5.6
4.5	on rail on tyres rear + front outriggers down	7.0 9.4 9.9*	9.9* 9.9* 9.9*	4.0 5.3 6.5	7.1* 7.1* 7.1*	2.3 3.2 4.1	5.9* 5.0 5.9*	2.7	3.7* 3.7* 3.7*	6.5
3.0	on rail on tyres rear + front outriggers down	6.7 9.1 9.9*	9.9* 9.9* 9.9*	3.9 5.2 6.4	8.0* 7.6 8.0*	2.3 3.2 4.1	6.1* 5.0 6.1*	1.7 2.4 3.1	3.6* 3.6* 3.6*	6.9
1.5	on rail on tyres rear + front outriggers down	6.7 9.0 11.4	12.1* 12.1* 12.1*	3.8 5.2 6.4	8.5* 7.6 8.5*	2.2 3.1 4.0	6.3* 4.9 6.3*	1.6 2.3 3.0	3.6* 3.6 3.6*	7.0
0	on rail on tyres rear + front outriggers down	6.1 8.8 11.7	13.6* 13.6* 13.6*	3.5 4.9 6.3	8.6* 7.8 8.6*	2.1 3.0 3.9	6.4* 4.7 6.4*	1.6 2.4 3.1	3.9* 3.8 3.9*	6.8
-1.5	on rail on tyres rear + front outriggers down	5.9 8.5 11.5	14.0* 14.0* 14.0*	3.2 4.6 6.0	8.9* 7.4 8.9*	2.0 2.9 3.7	5.0* 4.6 5.0*	1.9 2.7 3.5	4.2* 4.2* 4.2*	6.2
-3.0	on rail on tyres rear + front outriggers down	5.7 8.3 11.3	11.5* 11.5* 11.5*	3.1 4.4 5.3*	5.3* 5.3* 5.3*			3.1 4.4 5.3*	5.3* 5.3* 5.3*	4.5

Stic	k 2.05 m									
A	[3.0) m	4.5	m	6.0	m	1	~ <u>C</u>	
m m	Undercarriage				5	⊶ 57)	Ŀ	5	Ď	m
7.5	on rail on tyres rear + front outriggers down		- Card	-68		-	Gast	4.2 4.5* 4.5*	4.5* 4.5* 4.5*	4.2
6.0	on rail on tyres rear + front outriggers down			4.0 5.4 6.4*	6.4* 6.4* 6.4*			2.5 3.4 3.6*	3.6* 3.6* 3.6*	5.8
4.5	on rail on tyres rear + front outriggers down	7.1 9.5 9.5*	9.5* 9.5* 9.5*	4.0 5.3 6.6	7.0* 7.0* 7.0*	2.4 3.3 4.2	5.8* 5.1 5.8*	1.9 2.6 3.2*	3.2* 3.2* 3.2*	6.7
3.0	on rail on tyres rear + front outriggers down	6.8 9.1 10.4*	10.4* 10.4* 10.4*	3.9 5.2 6.4	7.9* 7.6 7.9*	2.4 3.3 4.2	6.1* 5.0 6.1*	1.6 2.3 3.0	3.2* 3.2* 3.2*	7.1
1.5	on rail on tyres rear + front outriggers down	6.7 9.0 11.4	12.1* 12.1* 12.1*	3.9 5.2 6.4	8.5* 7.6 8.5*	2.3 3.2 4.1	6.3* 4.9 6.3*	1.5 2.2 2.9	3.3* 3.3* 3.3*	7.2
0	on rail on tyres rear + front outriggers down	6.2 8.9 11.7	13.5* 13.5* 13.5*	3.6 4.9 6.4	8.6* 7.8 8.6*	2.1 3.0 3.9	6.4* 4.8 6.4*	1.6 2.3 3.0	3.6* 3.6* 3.6*	7.0
-1.5	on rail on tyres rear + front outriggers down	5.9 8.5 11.5	13.9* 13.9* 13.9*	3.3 4.6 6.0	8.9* 7.5 8.9*	2.0 2.9 3.8	5.5* 4.6 5.5*	1.8 2.6 3.4	4.2* 4.1 4.2*	6.4
-3.0	on rail on tyres rear + front outriggers down	5.7 8.3 11.3	12.4* 12.4* 12.4*	3.1 4.4 5.8	6.3* 6.3* 6.3*			2.7 3.8 4.7*	4.7* 4.7* 4.7*	5.0

Stick 2.25 m

	Á)		3.0) m	4.5	m	6.0	m	1	~ <u>p</u>	
ļ	1		_ ~	ρĥ	_ @	B	-50		_ @		
	m	Undercarriage	-40	-	- <u>-</u>		ريوت				m
		on rail			3.8	4.0*			3.8	3.8*	
	7.5	on tyres			4.0*	4.0*			3.8*	3.8*	4.5
		rear + front outriggers down			4.0*	4.0*	0.7	77+	3.8*	3.8*	
		on rail			4.1	6.2*	2.3	3.1*	2.3	3.1*	
	6.0	on tyres			5.4	6.2*	3.1*	3.1*	3.1*	3.1*	6.0
		rear + front outriggers down	7.1	0.0*	6.2*	6.2*	3.1*	3.1*	3.1*	3.1*	
	, -	on rail	7.1	8.9*	4.0	6.8*	2.4	5.6*	1.8	2.9*	
	4.5	on tyres		8.9*	5.3	6.8*	3.3	5.1	2.5	2.9*	6.8
		rear + front outriggers down	8.9*	8.9*	6.6	6.8*	4.2	5.6*	2.9*	2.9*	
	7.0	on rail	6.8	10.7*	3.9	7.7*	2.4	6.0*	1.5	2.9*	77
	3.0	on tyres	9.1	10.7*	5.2	7.6	3.3	5.1	2.2	2.9*	7.3
		rear + front outriggers down		10.7*	6.4	7.7*	4.2	6.0*	2.9*	2.9*	
		on rail	6.6	12.1*	3.9	8.4*	2.3	6.2*	1.4	3.0*	7,
	1.5	on tyres	9.0	12.1*	5.2*	7.5	3.2	5.0	2.1	3.0*	7.4
		rear + front outriggers down	11.4	12.1*	6.4	8.4*	4.1	6.2*	2.8	3.0*	
	•	on rail	6.2	13.4*	3.6	8.6*	2.1	6.3*	1.5	3.2*	7.0
	0	on tyres	8.9	13.4*	5.0	7.7	3.0	4.8	2.2	3.2*	7.2
		rear + front outriggers down	11.6	13.4*	6.4	8.6*	3.9	6.3*	2.9	3.2*	
	-1.5	on rail	5.9 8.5	13.8* 13.8*	3.3	8.9* 7.5	2.0	5.8*	1.7 2.4	3.8* 3.8*	6.6
	-1.5	on tyres			4.6			4.6			0.0
		rear + front outriggers down	11.5	13.8*	6.0	8.9*	3.8	5.8*	3.2	3.8*	
	-3.0	on rail	5.7 8.3	13.1*	3.1	7.0*			2.5	4.5*	5.0
	- 3.0	on tyres		13.1*	4.4	7.0*			3.6	4.5*	0.0
		rear + front outriggers down	11.3	13.1*	5.8	7.0*			4.5*	4.5*	

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

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

with offset two-piece boom 5.00 m (rear + front outriggers, heavy counterweight)

Stic	k 1.85 m									
A		3.0) m	4.5	m	6.0	m	1	~ □	
m	Undercarriage	-5)		- <u>4</u>)	Ŀ	- <u>-</u>	Ŀ			m
7.5	on rail on tyres rear + front outriggers down	7.8 8.3* 8.3*	8.3* 8.3* 8.3*					4.9 5.4* 5.4*	5.4* 5.4* 5.4*	3.9
6.0	on rail on tyres rear + front outriggers down	7.8* 7.8* 7.8*	7.8* 7.8* 7.8*	4.2 5.6 6.6*	6.6* 6.6* 6.6*			2.8 3.8 4.1*	4.1* 4.1* 4.1*	5.6
4.5	on rail on tyres rear + front outriggers down	7.5 9.9 9.9*	9.9* 9.9* 9.9*	4.3 5.6 6.8	7.1* 7.1* 7.1*	2.5 3.4 4.4	5.9* 5.3 5.9*	2.1 2.9 3.7*	3.7* 3.7* 3.7*	6.5
3.0	on rail on tyres rear + front outriggers down	7.2 9.5 9.9*	9.9* 9.9* 9.9*	4.2 5.5 6.7	8.0* 7.9 8.0*	2.5 3.4 4.4	6.1* 5.3 6.1*	1.8 2.6 3.3	3.6* 3.6* 3.6*	6.9
1.5	on rail on tyres rear + front outriggers down	7.1 9.5 11.9	12.1* 12.1* 12.1*	4.1 5.5 6.7	8.5* 7.9 8.5*	2.4 3.3 4.3	6.3* 5.2 6.3*	1.7 2.5 3.2	3.6* 3.6* 3.6*	7.0
0	on rail on tyres rear + front outriggers down	6.6 9.3 12.2	13.6* 13.6* 13.6*	3.8 5.2 6.7	8.6* 8.1 8.6*	2.3 3.2 4.1	6.4* 5.0 6.4*	1.8 2.5 3.3	3.9* 3.9* 3.9*	6.8
-1.5	on rail on tyres rear + front outriggers down	6.3 9.1 12.2	14.0* 14.0* 14.0*	3.5 4.9 6.3	8.9* 7.8 8.9*	2.2 3.1 4.0	5.0* 4.9 5.0*	2.0 2.9 3.8	4.2* 4.2* 4.2*	6.2
-3.0	on rail on tyres rear + front outriggers down	6.1 8.8 11.5*	11.5* 11.5* 11.5*	3.4 4.7 5.3*	5.3* 5.3* 5.3*			3.4 4.7 5.3*	5.3* 5.3* 5.3*	4.5

Stic	k 2.05 m									
A		3.0) m	4.5	m	6.0	m	1	~ ₽	
m [2]	Undercarriage	-40	Ŀ	- <u>-</u>	Ŀ	-4)	B	- <u>-</u>	Ŀ	m
7.5	on rail on tyres rear + front outriggers down							4.4 4.5* 4.5*	4.5* 4.5* 4.5*	4.2
6.0	on rail on tyres rear + front outriggers down			4.3 5.7 6.4*	6.4* 6.4* 6.4*			2.7 3.6* 3.6*	3.6* 3.6* 3.6*	5.8
4.5	on rail on tyres rear + front outriggers down	7.5 9.5* 9.5*	9.5* 9.5* 9.5*	4.3 5.6 6.9	7.0* 7.0* 7.0*	2.6 3.5 4.4	5.8* 5.3 5.8*	2.0 2.8 3.2*	3.2* 3.2* 3.2*	6.7
3.0	on rail on tyres rear + front outriggers down	7.2 9.5 10.4*	10.4* 10.4* 10.4*	4.2 5.5 6.7	7.9* 7.9* 7.9*	2.6 3.5 4.4	6.1* 5.3 6.1*	1.8 2.5 3.2*	3.2* 3.2* 3.2*	7.1
1.5	on rail on tyres rear + front outriggers down	7.1 9.5 11.9	12.1* 12.1* 12.1*	4.1 5.5 6.7	8.5* 7.9 8.5*	2.5 3.4 4.3	6.3* 5.2 6.3*	1.7 2.4 3.1	3.3* 3.3* 3.3*	7.2
0	on rail on tyres rear + front outriggers down	6.6 9.4 12.1	13.5* 13.5* 13.5*	3.9 5.3 6.7	8.6* 8.0 8.6*	2.3 3.2 4.2	6.4* 5.0 6.4*	1.7 2.5 3.2	3.6* 3.6* 3.6*	7.0
-1.5	on rail on tyres rear + front outriggers down	6.3 9.1 12.2	13.9* 13.9* 13.9*	3.5 4.9 6.4	8.9* 7.9 8.9*	2.2 3.1 4.0	5.5* 4.9 5.5*	2.0 2.8 3.6	4.2* 4.2* 4.2*	6.4
-3.0	on rail on tyres rear + front outriggers down	6.1 8.8 12.0	12.4* 12.4* 12.4*	3.4 4.7 6.2	6.3* 6.3* 6.3*			2.9 4.1 4.7*	4.7* 4.7* 4.7*	5.0

Stick 2.25 m

A		3.0) m	4.5	m	6.0	m		∕ ⊊	
m T	Undercarriage		Ŀ	-47	Ŀ	-47)	Ŀ	- 4	Ŀ	m
7.5	on rail on tyres rear + front outriggers down			4.0* 4.0* 4.0*	4.0* 4.0* 4.0*			3.8* 3.8* 3.8*	3.8* 3.8* 3.8*	4.5
6.0	on rail on tyres rear + front outriggers down			4.4 5.7 6.2*	6.2* 6.2* 6.2*	2.5 3.1* 3.1*	3.1* 3.1* 3.1*	2.5 3.1* 3.1*	3.1* 3.1* 3.1*	6.0
4.5	on rail on tyres rear + front outriggers down	7.6 8.9* 8.9*	8.9* 8.9* 8.9*	4.3 5.6 6.8*	6.8* 6.8* 6.8*	2.6 3.6 4.5	5.6* 5.4 5.6*	2.0 2.7 2.9*	2.9* 2.9* 2.9*	6.8
3.0	on rail on tyres rear + front outriggers down	7.2 9.5 10.7*	10.7* 10.7* 10.7*	4.2 5.5 6.7	7.7* 7.7* 7.7*	2.6 3.5 4.5	6.0* 5.3 6.0*	1.7 2.4 2.9*	2.9* 2.9* 2.9*	7.3
1.5	on rail on tyres rear + front outriggers down	7.1 9.4 11.8	12.1* 12.1* 12.1*	4.2 5.5 6.7	8.4* 7.8 8.4*	2.5 3.4 4.4	6.2* 5.2 6.2*	1.6 2.3 3.0*	3.0* 3.0* 3.0*	7.4
0	on rail on tyres rear + front outriggers down	6.7 9.4 12.1	13.4* 13.4* 13.4*	3.9 5.3 6.7	8.6* 8.0 8.6*	2.3 3.3 4.2	6.3* 5.1 6.3*	1.6 2.4 3.1	3.2* 3.2* 3.2*	7.2
-1.5	on rail on tyres rear + front outriggers down	6.3 9.1 12.2	13.8* 13.8* 13.8*	3.6 5.0 6.4	8.9* 7.9 8.9*	2.2 3.1 4.0	5.8* 4.9 5.8*	1.8 2.6 3.4	3.8* 3.8* 3.8*	6.6
-3.0	on rail on tyres rear + front outriggers down	6.1 8.8 11.9	13.1* 13.1* 13.1*	3.3 4.7 6.1	7.0* 7.0* 7.0*			2.7 3.9 4.5*	4.5* 4.5* 4.5*	5.0

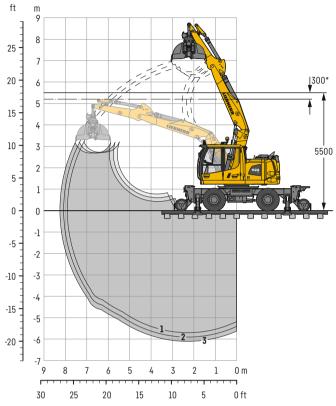
Height 🗝 Can be slewed through 360° In longitudinal position of undercarriage Max. reach *Limited by hydr. capacity

The lift capacities are stated in metric tonnes (t) with PowerLift of 375 bar at the stick end without attachment. This applies to a firm flat substrate with a closed steering axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load lift 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 lift hook and a lift capacity chart.

Clamshell grab

with two-piece boom 5.05 m



Digging envelope

		1	2	3
Stick length	m	1.85	2.05	2.25
Max. digging depth	m	5.70	5.90	6.10
Max. reach at ground level	m	7.90	8.10	8.25
Max. dumping height	m	6.25	6.35	6.45
Max, dumping height under overhead wires	m	2.73	2.71	2.69

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 5.05~m, stick 2.25~m and clamshell grab GMZ $22/0.30~m^3$.

Undercarriage versions	Weight (kg)
A 922 Rail Litronic without outriggers (Asymmetric Rail)	20,900
A 922 Rail Litronic without outriggers (Symmetric Rail)	20,900
A 922 Rail Litronic with rear + front outriggers	22,600

* Safety distance to overhead wires

Clamshell grabs GMZ 22 Machine stability per ISO 10567* (75% of tipping capacity)

s			without outriggers									Rear -	+ front outri	iggers						
를				on rail on tyres				on rail on tyres					down							
Width of clamshells	Capacity	Weight	Stick length (m)			Stick length (m)				tick length (St	tick length (ick length (St	tick length (i	
mm	m³	kg	1,85	2,05	2,25	1,85	2,05	2,25	1,85	2,05	2,25	1,85	2,05	2,25	1,85	2,05	2,25			
3001)	0.08	675				-														
5002)	0.16	740																		
6002)	0.20	770																		
7002)	0.24	810																		
8002)	0.28	840																		
1,0002)	0.34	905																		
6003)	0.30	850																		
8003)	0.42	925																		
1,0003)	0.54	1,005			Δ															

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

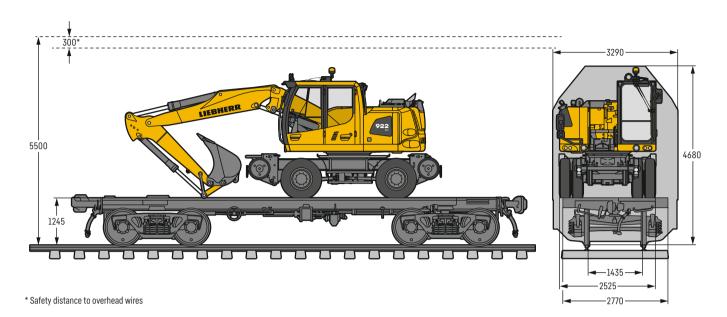
Max. material weight \blacksquare = \leq 1.8 t/m³, \blacksquare = \leq 1.5 t/m³, \triangle = \leq 1.2 t/m³, - = not authorised

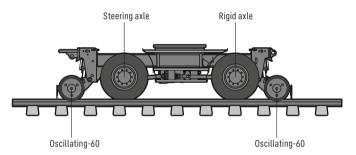
¹⁾ Track construction bucket

²⁾ Combination bucket

³⁾ Clamshell bucket

Dimensions for transport / Choice of bogie systems



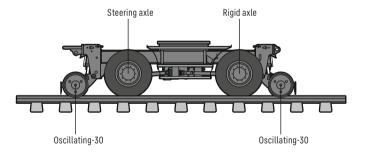


Variant A

steering axle end oscillating-60 rigid axle end oscillating-60

Area of application

for rail track unevenness



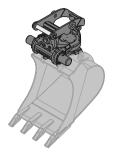
Variant B

steering axle end oscillating-30 rigid axle end oscillating-30

Area of application

for heavy loads / rear + front outriggers

Attachments



Tilt rotator

Mounting machine side		SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 LIKUFIX, SWA 48 mechanical, SWA 48 LIKUFIX
TR 20		,
Mountings attachment side		SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 48 mechanical
Weight ^{1) 3)}	kg	505 - 575
Rotation		360°
Tilt		2 x 50°
TR 25		
Mountings attachment side		SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 48 mechanical, SWA 48 hydraulic
Weight ^{1) 3)}	kg	640 - 705
Rotation		360°
Tilt		2 x 50°



Tilt unit

LiTiU 33		
Mounting machine side		SWA 33 LIKUFIX
Mountings attachment side		SWA 33 hydraulic, SWA 33 LIKUFIX
Weight ^{1) 3)}	kg	380 - 410
Tilt		2 x 50°
LiTiU 48		
Mounting machine side		SWA 48 LIKUFIX
Mountings attachment side		SWA 48 hydraulic, SWA 48 LIKUFIX
Weight ^{2) 3)}	kg	700 - 740
Tilt		2 x 45°



Clamshell grab GMZ 22 / GMZ 22 HD^{4]}

•							
Mountings			ing, SW stick mechani aulic, SWA 48 LIKUFIX		nical, SWA 33 hydraul	ic, SWA 33 LIKUFIX,	SWA 48 mechanical,
Clamshell buckets		SWA 40 Hyun	dulic, SWA 40 LINUFIA				
Shell width	mm	300	400	600	800	1,000	
Opening width	mm	1,502	1,502	1,502	1,502	1,502	
Capacity	m ³	0.14	0.20	0.30	0.42	0.54	
Weight1)	kg	895	925	1,025	1,105	1,180	
Track construction buckets							
Shell width	mm	300					
Opening width	mm	1,141					
Capacity	m ³	0.08					
Weight ¹⁾	kg	815					
Combination buckets							
Shell width	mm	400	500	600	700	800	1,000
Opening width	mm	1,227	1,227	1,227	1,227	1,227	1,227
Capacity	m ³	0.12	0.16	0.20	0.24	0.28	0.34
Weight ¹⁾	kg	835	895	945	985	1,015	1,080



Backhoe bucket 03

Mountings			direct mounting, SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 LIKUFIX, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 LIKUFIX					
Cutting width	mm	300	400	500	650	850	1,050	1,250
Capacity	m ³	0.17	0.24	0.32	0.42	0.60	0.80	0.95
Weight ¹⁾	kg	235	260	305	360	415	495	540

 ¹⁾ weights based on an attachment in a standard design with the machine SWA 33 LIKUFIX mounting
 ²⁾ weights based on an attachment in a standard design with the machine SWA 48 LIKUFIX mounting
 ³⁾ depending on the mounting on the attachment
 ⁴⁾ 20 kg additional weight for HD version

Attachments



Universal bucket 03

Mountings		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 LIKUFIX, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 LIKUFIX
Cutting width	mm	1,500
Capacity	m ³	0.60
Weight ¹⁾	kg	385



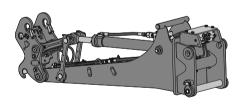
Tilt bucket 90

Mountings		direct mounting, SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 LIKUFIX, SWA 48 mechanical,						
		SWA 48 hydraulic, SW	NA 48 hydraulic, SWA 48 LIKUFIX					
Cutting width	mm	1,500	1,600	1,600				
Capacity	m ³	0.60	0.80	1.00				
Weight ¹⁾	kg	700	785	825				
Tilt angle		2 x 50°	2 x 50°	2 x 50°				



Ditch cleaning bucket

Mountings			ting, SW stick me aulic, SWA 48 LI	,	33 mechanical,	SWA 33 hydraul	ic, SWA 33 LIKU	IFIX, SWA 48 mo	echanical,
GRL 90									
Cutting width	mm	1,600	1,600	2,000	2,200				
Capacity	m³	0.55	0.80	0.50	0.80				
Weight ¹⁾	kg	685	815	705	840				
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°				
GRL 90 Rail									
Cutting width	mm	2,000	2,000						
Capacity	m³	0.70	1.00						
Weight ¹⁾	kg	820	870						
Tilt angle		2 x 50°	2 x 50°						
GRL rigid 2B									
Cutting width	mm	600	800	1,000	1,200	1,400	1,600	1,800	2,000
Capacity	m ³	0.17	0.25	0.30	0.38	0.45	0.50	0.57	0.65
Weight ¹⁾	kg	185	215	245	275	310	350	380	410
GRL rigid Rail									
Cutting width	mm	1,600	2,000						
Capacity	m³	0.80	0.48						
Weight ¹⁾	kg	470	370						



Stick extension LS 12

Mounting machine side		SWA 33 LIKUFIX, SWA 48 LIKUFIX
Mountings attachment side		SWA 33 mechanical, SWA 33 mechanical LIKUFIX ² , SWA 33 hydraulic ⁴ ,
		SWA 33 LIKUFIX ^{3) 4) 5)}
Length	m	2.25
Weight1)	kg	approx. 580 - 630

 $^{^{1\!\}mathrm{J}}$ weights based on an attachment in a standard design with the machine SWA 33 LIKUFIX mounting

²⁾ attachment with high pressure circuit only possible with the manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine

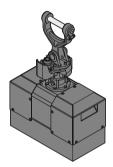
³⁾ attachment with high pressure circuit only possible with the electric switchover tipping cylinder or an extended hydraulic circuit on the carrier machine
4) 14-pole signal contact strip is required, for example to control and monitor the hydraulic quick coupling system on the stick extension on the attachment side or to transfer electrical signals for the

[🗓] a socket on the stick above the signal contact strip for the carrier machine is also required for switching between different hydraulic circuits



Load lift hook

Mountings		direct mounting, SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 48 mechanical, SWA 48 hydraulic
Max. load	t	8
Rotatable		360°, mechanical
Height to bolting point	mm	508
Weight ¹⁾	kg	120



Hydro magnet

,		
Mountings		direct mounting, SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 LIKUFIX, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 LIKUFIX
Power	kW	5
Lifting capacity	t	5
Swivel circuit		330°
Overall height to bearing fork	mm	1,182
Weight ¹⁾	kg	1,485



Pallet fork

Weight1)

Mountings		direct mounting, SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 LIKUFIX, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 LIKUFIX
Max. width pallet fork	mm	1,245
Pallet forks length	mm	1,200
Lifting capacity (ISO 2328)	t	2.5
Weight ¹⁾	kg	330



Sorting grab perforated ribbed closed perforated ribbed closed perforated closed perforated closed direct mounting, SW stick mechanical, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 LIKUFIX, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 LIKUFIX Mountings SG 20B mm | 800 1,000 Shell width 800 1,000 1,200 1,200 1,400 1,400 Capacity m³ 0.40 0.40 0.50 0.50 0.60 0.60 0.70 0.70 Max. closing force Weight¹⁾ SG 25B kN 40 40 40 40 40 40 40 40 kg 915 925 970 1,000 1,015 1,040 955 1,060 Shell width mm | 800 1,000 1,000 1,000 1,200 1,200 1,400 1,400 m³ 0.55 kN 60 kg 1,170 Capacity Max. closing force 0.50 0.55 0.75 0.65 0.75 0.90 0.90 1.10 1.10 60 60 60 60 60 60 60 60 60 1,380

1,235

1,300

1,260

1,300

1,325

1,220

1,190

1,415

 $^{^{1)}}$ weights based on an attachment in a standard design with the machine SWA 33 LIKUFIX mounting

Equipment

● Undercarriage

Dual-circuit braking system with rail wheel brake, hydraulically	•
Support frame, lockable (front and rear)	+
Add-on-axle	+
Bumper (front and rear)	+
Trailer coupling Rockinger, semi-automatic	•
Lighting system white/red incl. power socket*	+
Earthing cable with ball-headed pin	Х
Fire extinguisher 6 kg	Х
Grab suspension bracket	+
Drag shoe, 2 pieces	•
Load holding valve on each stabilization cylinder	•
Line protection for rail guide cylinders	+
Parking brake, maintenance-free	•
Outrigger with individual control	+
Rear + front outriggers	+
Tyre inflation hose with pressure gauge at wagon braking system	+
Tyres, variants	+
Rail undercarriage friction wheel, gauge 1,000 mm	
(not available in combination with rear + front outriggers)	+
Rail undercarriage convertible (position and pressure control)	+
Rail guide axles, oscillating 30 on the steering and rigid axle side	•
Rail guide axles, oscillating 60 on the steering and rigid axle side	+
Rail guide, gauge 1,435 mm*	•
Rail guide, gauge 1,600 mm	+
Rail sweeper, swivelling	Х
Narrow excavator axles with wheel head width of 2,100 mm	+
Protection for oscillating axle cylinders	+
Proportional servo-steering with emergency function	•
Speeder*	+
Two storage compartments	•
Storage compartment with drawer	+
Power socket 24 V / 10 A (front / rear)	+
Lashing eyelets for transport	•
Wagon braking system (pneumatic, 1 circuit)	•
Wagon braking system (pneumatic, 2 circuits)	+
Tool equipment, extended	+
Pull rod	х

Hydraulic system

Shut-off valve between hydraulic tank and pump(s)	•
Pressure test fittings	•
Electronic pump regulation	•
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	+
Emergency actuation, electric	Х
Switchover clamshell operation and tipping cylinder (not available in combination	
with LIKUFIX)	•
Switchover high pressure circuit 1 and tipping cylinder	+
Switchover high pressure circuit 1 and two-piece boom	+
Preparation Liebherr hydro-magnet	+

Diesel engine

Fuel anti-theft device	+
Sensor controlled engine idling	•
Liebherr particle filter*	•
Air pre-filter with dust discharge	+
Preheating hydraulic oil	+
Preheating fuel	+
Preheating engine oil	+

Work space limitation

•	
Electronic lift limitation	Х
Load torque limitation (RCL)	Х
Load torque warning (RCI)	+
Swivel limitation	Х
Virtual wall	+

Uppercarriage

Uppercarriage rear light, 2 pieces, LED	+
Uppercarriage right side light, 1 piece, LED	•
Counterweight (tail swing radius 2,000 mm)	•
Counterweight (tail swing radius 2,000 mm), heavy	+
Refuelling system with filling pump	+
External starting aid (battery connectors)	+
Handrails, non slip surfaces	•
Main battery switch for electrical system	•
Engine hood with gas spring	•
Uppercarriage doors, lockable	•
Amber beacon, at uppercarriage, LED double flash	+
Signal light DB, halogen	Х
Signal light DB, LED	+

Cab

Can	
Storage compartment	•
Activation of the lighting (compliant with the Road Traffic Licensing authority)	
for tramway operations	+
Cab lights rear, 2 pieces, LED	•
Cab lights front, 2 pieces, LED (under rain cover)	•
Exterior mirror, electrical adjustable, with heating	+
Control elements for signal-horn and emergency brake at co-driver's seat	•
Lighting for cab access	Х
Mechanical hour meters, readable from outside the cab	•
Roof window made from impact-resistant laminated safety glass	•
Data logger	•
Two seater cab	•
Circular bubble level	+
Pressure indication of rail axles on the display	•
Driver identification code	+
Driver profile, personalised	•
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 2 kg	+
Windscreen retractable (including upper part)	•
Intermittent windscreen wiper with wiper washer	•
Footrest	+
Speed indication on the rail-display	•
Cruise control*	•
Rubber floor mat, removable	
High pressure circuit, permanent drive	•
Dome light	•
Licence plate holder with light*	+
Coat hook	
Automatic air conditioning	•
Fuel consumption indicator	•
Electric cooler	+
Steering wheel lock	•
Steering column adjustable	•
LiDAT, vehicle fleet management*/**	•
Emergency exit rear window	•
Positioning swing brake	+
Proportional control	•
Radio Comfort, control via display with handsfree set	+
Preparation for radio installation	•
Rain cover over front window opening	•
ROPS cab	•
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+
Amber beacon, on cab, LED double flash	+
Windshield wiper with interval switching and washer, roof window	•
Windshield wiper with interval switching and washer, rear window	•
Driver door with sliding window	•
Slipcover for operator seat	+
Right side window and windshield made from laminated safety glass	•
Safety components DB (safety flag, signal horn, warning triangle, warning light,	
first-aid box)	х
Sun blind	•
Auxiliary heating, adjustable (week time switch)	+
Power socket 12 V	•
Left control console, folding	•
Electronic immobilizer	+
Cigarette lighter / power socket 24 V	•



•	Lydipinent	
	Alternative connection medium pressure circuit on right side of stick	+
	Boom lights, 2 pieces, LED	•
	Stick lights, 2 pieces, LED	+
	Grab lines for stick with tipping kinematic	+
	High pressure circuit 1 incl. unpressurised return line and Tool Control	•
	High pressure circuit 2 incl. lines	•
	Load holding valve tipping cylinder, both sides	+
	Load holding valve tipping cylinder, single-sided	+
	Load lug on boom	+
	Load lug on stick	+
	Leak oil line, additional for attachments	+
	Stick prepared for quick coupler stick	•
	Medium pressure circuit incl. lines	•
	PowerLift	•
	Pipe fracture safety valves hoist cylinders	•
	Pipe fracture safety valve stick cylinder	•
	Hose quick coupling at grab lines	•
	Hose protection for LIKUFIX	+
	Quick coupling system LIKUFIX-9 SWA 33	+
	Quick coupling system LIKUFIX SWA 33	+
	Quick coupling system LIKUFIX SWA 48	+
	Signal contacts for LIKUFIX, 14-pin	+
	Signal contacts for LIKUFIX, 14-pin, with control unit for second SWA	+
	Special buckets and other attachments	+
	Power socket on stick, commutable (2 circuits)	+
	Tool Control, 20 attachment adjustments selectable over the display	•
	Tool Management, automatic attachment recognition (in combination with LIKUFIX)	+
	Latching for connecting link in grab operation	+
	Two-piece boom	•
	Offset two-piece boom	+
	Cylinders with end damping	•

Complete machine

Machine guidance system Preparation + Lubrication Lubrication undercarriage, manually – decentralised (grease points) + Lubrication undercarriage steering axle, manually – centralised (one grease point)
Lubrication + Lubrication undercarriage, manually – decentralised (grease points) + Lubrication undercarriage steering axle, manually – centralised (one grease point) •
Lubrication undercarriage, manually – decentralised (grease points) + Lubrication undercarriage steering axle, manually – centralised (one grease point) •
Lubrication undercarriage steering axle, manually - centralised (one grease point)
Out of the first form of the first out of the control of the contr
Central lubrication system for uppercarriage and equipment, automatically
(without quick coupler and connecting link)
Centralised lubrication extended for quick coupler +
Centralised lubrication extended for connecting link +
Special coating
DB-coating x
Special coating undercarriage, uppercarriage, equipment +
Monitoring
Rear view monitoring with camera
Side view monitoring with camera

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

^{• =} Standard, + = Option, x = Required for acceptance by the German RR (DB)
* = country-dependent, ** = optionally extendable after one year

All illustrations and data may differ from standard equipment. Subject to change without notice. Printed in Germany by DHW \cdot RG-BK \cdot LHB/VF-12259742-1-04.22_enGB

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 applications.

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 then, the family business has steadily grown to a group of more than 140 companies with nearly 48,000 employees located on all continents. The corporate head-quarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

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