Wheeled Excavator

A 910 Compact

Litronic



LIEBHERR

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

MaintainabilityService Every Step of the Way –
Simple, Fast and Reliable



Performance



Compact, Flexible – Perfect Combination for Maximum Performance

Restricted construction sites in city centres, road construction, as well as classic earthmoving work, are an easy task for Liebherr Compact wheeled excavators. The combination of capacity, speed and compact machine dimensions ensure optimal flexibility on all construction sites.

Maximum Performance

Flexibility

High digging forces despite a tight tail swing permit flexible usage on every construction site. Hard surfaces can be processed quickly and precisely, thus also ensuring maximum productivity.

Being Faster

The engine power was increased significantly for greater acceleration and better performance especially on slopes. The full engine power is available in driving mode when the joysticks are deactivated. The speed of the machine can be easily adapted to the different applications using the MODE switch.

Joystick Steering

With the optional joystick steering, the driver can steer the wheeled excavator proportionally using the mini joystick. In this way, working and driving movements can be performed at the same time without having to change controls. More efficient operation for even greater productivity.

Precise Work

Working with Precision

The standard joysticks with proportional controls and also the extraordinary sensitivity of the hydraulic system enable precision work at high speeds and parallel movements. This means the machine operator can carry out the most challenging tasks in a short time, not only at reduced speed but also with maximum performance output from the machine. The stability is also increased with the Liebherr tyres without an intermediate ring. The larger contact surface also permits low ground pressure and better traction on soft ground.

Automatic Digging Brake

The optional digging brake means that manual actuation of the brake pedal is no longer necessary in some applications. Particularly in applications with a frequent transfer of the excavator, this leads to quicker work processes and thus increases safety for people and the machine.



Joystick with Proportional Control

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



Digging Force

- High digging and breakout force in the field
- Continuously high digging performance even in tough ground
- More digging force for faster results



Equipment

- Large lateral offset of equipment for parallel working
- Protected internal boom adjustment cylinder
- Perfect work equipment for confined conditions

Economy



A Sound Investment – Optimum Economy and Environmentally Friendly

The mobile A 910 Compact wheeled excavator is a construction machine which delivers maximum productivity in conjunction with superb efficiency. The efficiency can be further enhanced with the use of fuel-saving Liebherr hydraulic oil or a Liebherr quick coupling system.

Maximum Efficiency

Fuel Efficiency and Exhaust Gas Treatment

For exhaust emissions stage IV, Deutz uses a SCR system, comprising a SCR catalytic system and other components such as an injector and AdBlue®, enabling a 91 percent reduction in nitrogen oxide (NOX). The system reduces exhaust gas emissions effectively and has no negative effect on performance. The environment is protected by low fuel consumption and thus reduced emissions.

Engine Idling and Engine Shut-down

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 levels. Operating costs can be reduced even further with the optional automatic engine shut-down function.

Increased Productivity

Liebherr Working Tools and LIKUFIX

To boost the productivity of its construction machines, Liebherr offers a broad range of working tools 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 working tools from the operator's cabin. This boosts productivity on average by 30 %.

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 on 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.



Perfect operating point with LPE Operating point without LPE Operating point without LPE Specific fuel consumption



Four Wheel Steering

- Recommended for works in urban or narrow areas
- Considerably increased flexibility and agility
- Comfortable and quick implementing, even under constricted conditions

Low Fuel Consumption Thanks to Intelligent Machine Control

- Liebherr-Power Efficiency (LPE) optimises the interaction of the drive components in terms of efficiency
- LPE enables machine operation in the area of the lowest specific fuel use for less consumption and greater efficiency with the same performance

Liebherr Quick Coupling System LIKUFIX

- Faster and safer changing of mechanical and hydraulic working tools from the operator's cabin
- Machine utilization increased to up to 90 % thanks to extended deployment options
- Visual and acoustic check of correct locking position of tool at quick coupling system by two proximity sensors

Reliability



Competence, Consistency, Innovation – Proven Experience

Liebherr construction machines represent safety with customer-focussed sales and service partners. The quality and innovation of the machine provide security and play a key role in the success of the design specifications. An investment that pays off.

More Safety

Bright, Longlife Lighting

Various headlights provide optimal lighting in the working area, thus ensuring a better view and greater safety for people and the machine. The standard LED rear lights not only look great, they also have high luminosity and an extremely long life.

Pipe Fracture Safety Valves

The standard pipe fracture safety valves on the stick and hoist cylinders prevent the attachments from dropping in an unregulated way and ensure maximum safety during every operation.

Electronic Height Limit

For applications with protruding or overhanging components in the working area, the compact wheeled excavators can be optionally equipped with an electronic height limit. The maximum permissible working height can be freely selected and stops the movement of the equipment when the set working height is reached. This helps avoid damage to the machine and its environment.

High Machine Availability

Quality and Competence

Our experience, understanding of customer needs and the technical implementation of these findings guarantee the success of the product. For decades, Liebherr has been inspirational with its extensive production and system solutions. Key components such as the electronic components, slew ring, slew drive and hydraulic cylinders are developed and produced by Liebherr itself. The great depth of in-house manufacturing guarantees maximum quality and ensures that components are optimally configured to each other.

Robust Design

All steel components are designed and manufactured by Liebherr itself. High-strength steel plates configured for the toughest of requirements result in high torsional stiffness and optimum absorption of forces induced for a longer service life.



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



Less is More

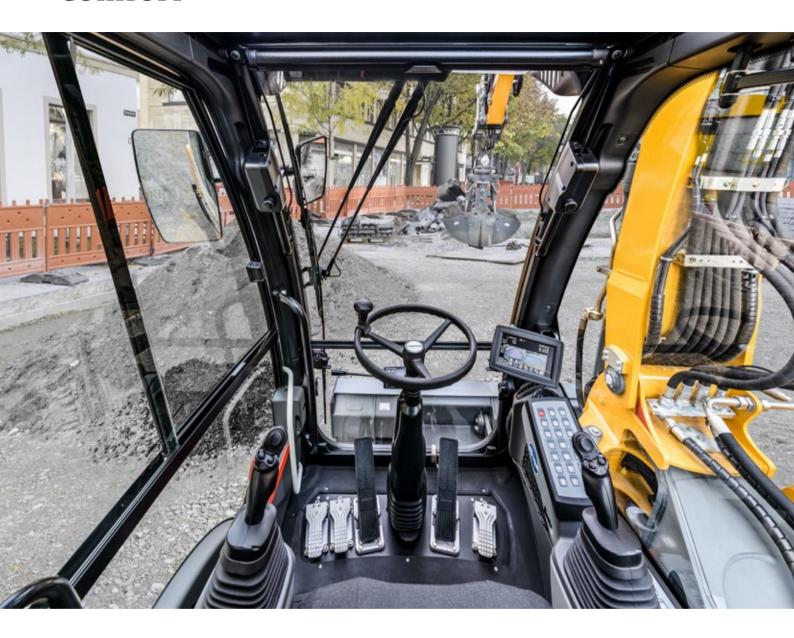
- Extended range of possible applications due to a short tail swing radius of only 1.60 m
- Greater safety for man and machine
- Liebherr compact wheeled excavators: short and safe



More Rear Visibility – also at the Side

- The standard camera for rear-view and lateral monitoring gives the driver an optimal view of his working area and the surrounding machine area at all times
- Extensive glazing in combination with two standard monitoring cameras ensure safe handling of the machine at all times

Comfort



Ergonomic Excellence – Superior Cabin Design for Operator Comfort and Wellbeing

The modern Liebherr cab with an air-suspension heated driver's seat and automatic air-conditioning ensures a pleasant atmosphere, thus offering the best conditions for healthy and productive work whilst allowing the driver to work with full concentration. The ergonomic control elements with touchscreen display also simplify the operation of the wheeled excavator. The extensive safety equipment includes the rollover protection system (ROPS) for the cab fitted as standard according to ISO 12117-2.

First-class Cab

Automatic Air Conditioning

The optional automatic air conditioning offers a convincingly intuitive operation. Temperature, blower setting and the various air nozzles in the head, chest and foot areas are set using the touchscreen 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 seat versions available have recognized orthopedic properties, and offer sitting comfort at the highest level. Even the standard operator seat offers an extensive range of features such as air suspension, seat heating, headrest, lumbar support and many more.

Low Noise Levels

The use of viscoelastic mounts, good insulation and lownoise diesel engines from Liebherr minimises noise emissions and vibrations.

Comfortable Operation

Radio with Hands-free Device

The radio can be equipped with an MP3-compatible USB slot and integrated hands-free device, which means that calls can even be taken while working with the machine. Operation of the radio is by means of the touchscreen colour display. Station search, volume control and mute can be controlled with ease. Simple operation for greater comfort.

Mirror System

The exterior mirrors are available as an option and can be adjusted electrically without trouble from the cab. The exterior mirrors are heated at the press of a button. In this way, the exterior mirrors are quickly cleared of condensation or ice during periods of high air humidity and frost. This ensures a clear view over the working area and saves time.

Detailed Solutions

Numerous details provide greater comfort and efficiency. For example, there is a choice of two different steering wheel versions: The thin steering wheel is recommended for reqular civil engineering works as it affords better visibility of the working area. Also, the stabiliser blade does not have any lubrication points and is maintenance-free. No need for timeconsuming lubrication.





Refuelling

- Using the optional refuelling pump, the machine can be refuelled directly from a fuel container
- The tank hose integrated in the service door and the automatic shut-off when the tank is full offer greater convenience and short replenishment times
- Topping up simple, quick and safe

Maximum Safety

- More convenient and safer entry and exit in and out of the cab thanks to added width from the folding arm console
- Three entry steps with standard anti-slip galvanised plates provide a boost to safety

Intuitive

Operation

- Display of the machine data and camera image on the 7-inch indicating unit with touchscreen and direct access via menu bar
- 10 user-programmable memory slots for working tools, which can be used for quickly and easily setting the oil pressure and oil flow at the push of a button when changing tools
- Rear and side area monitoring provide optimum visibility of the working area at all times

Maintainability



Service Every Step of the Way -**Simple, Fast and Reliable**

Liebherr compact wheeled excavators are not only powerful, robust, precise and efficient, they also impress with the service-orientated machine design. Maintenance is performed quickly, simply and safely. 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 the time it saves. All the maintenance points are easily accessible from the ground and easy to reach due to the large, wide-opening service doors. The enhanced service concept places the maintenance points close to each other and reduces their number to a minimum. 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 plus at the same time reducing fuel consumption by up to 5%.

Maintenance without Draining the Oil

A cut-off valve isolating the oil reservoir from the hydraulic system is fitted as standard. This allows simple maintenance work to be performed on the hydraulic components without having to drain off the hydraulic fluid. Reduced maintenance time for greater machine availability.

Your Competent Service Partner

Remanufacturing

The Liebherr remanufacturing program offers cost-effective reconditioning of components to the highest quality standards. Various reconditioning levels 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.



Lubrication **During Operation**

- Fully automatic central lubrication system for the attachment and swing ring
- Can be expanded to the connecting link and quick coupler
- Lubrication without interrupting work for higher productivity



Excellent Service Access

- Large, wide-opening service doors
- Engine oil, fuel, air and cab air filters are easily and safely accessible from the around
- The oil level in the hydraulic tank can be checked from the cab
- Standard magnetic rod in the hydraulic tank as reliable service indicator



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

Wheeled Excavator A 910 Compact Litronic **Overview**

Ergonomic Operator's Work Station for Maximum Comfort

- Operator's seat Comfort or Premium (optional)
- · Automatic air-conditioning system (optional)
- 7" high resolution colour display with touchscreen operation
- · Resonant arm console and ergonomic joysticks
- · Folding arm console, left
- Proportional control with 4-way mini-joystick
- Joystick steering (optional)
- Large windows
- Convenient radio operation with hands-free device
- Tool Control for working tools
- LED headlights (optional)
- · Rear and side monitor

Superior Technology for Highest Economy

- · Diesel engine compliant with stage IV
- Emissions treatment with SCR technology
- Liebherr-Power-Efficiency (LPE)
- Load-sensing-control
- MODE selection (Sensitive, ECO, Power)
- · Sensor-controlled automatic idling system

Perfect Combination for Highest Possible Performance

- Short tail swing radius
- 4-wheel steering (optional)
- Various support versions, welded on
- Divided blade (optional)
- · Liebherr tyres without intermediate ring
- Automatic working brake (optional)





Superbly Designed Equipment for Maximum Reliability

- Various boom versions and stick lengths
- Liebherr hydraulic cylinders
- Pipe fracture safety valves hoisting and stick cylinders
- · Lateral adjustment with articulated joint
- Overload warning device
- Electronic lift limitation (optional)
- Liebherr quick coupling systems (optional)
- · Wide selection of Liebherr working tools (optional)

Simplified Maintenance Concept for Maximum Productivity

- Fully automatic central lubrication system for uppercarriage and attachment (optional)
- Large, wide-opening service doors
- · Central maintenance points accessible from the ground
- · Hydraulic shut-off lock
- Cab air filter can be replaced quickly and conveniently from outside

Technical Data

Diesel Engine

Rating per ISO 9249	85 kW (116 HP) at 1,800 RPM	
Model	Deutz TCD3.6L4	
Туре	4 cylinder in-line	
Bore/Stroke	98/120 mm	
Displacement 3.6 l		
Engine operation	4-stroke diesel	
	Common-Rail	
	turbo-charged and after-cooler	
	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/80 A	
Stage IV		
Harmful emissions values	emissions values in accordance with 97/68/EG stage IV	
Emission control	SCR technology	
Option	Deutz particle filter	
Fuel tank	175 I	
Urea tank	20	

≈ Cooling System

Diesel engine	water-cooled
	compact cooling system consisting cooling unit
	for water, hydraulic oil and charge air with step-
	less thermostatically controlled fan, fans for
	radiator cleaning can be completely folded away

Hydraulic Controls

Power distribution	via control valves with integrated safety valves, simultaneous and independent actuation of chassis, swing drive and attachment	
Servo circuit		
Attachment and swing	with hydraulic pilot control and proportional joystick levers	
Chassis	via switch or electroproportional foot pedals	
Proportional control	proportionally acting transmitters on the joy- sticks for additional hydraulic functions	

Hydraulic System

La riyurdune Oystem		
Hydraulic pump		
for attachment	Liebherr axial piston variable displacement	
and travel drive	pump	
Max. flow	195 l/min.	
Max. pressure	350 bar	
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque con- trolled swing drive priority	
Hydraulic tank	100	
Hydraulic system	max. 230 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 especially 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 environ- mentally friendly operation	
P (Power)	mode for high performance with low fuel con- sumption	
Engine speed and performance setting	stepless alignment of engine output and hydraulic power via engine speed	
Option	Tool Control: ten preadjustable pump flows and pressures for add on tools	

Swing Drive

Drive	Liebherr axial piston motor with integrated	
	brake valve and torque control	
Swing ring	Liebherr, sealed race ball bearing swing ring,	
	internal teeth	
Swing speed	0 – 10.0 RPM stepless	
Swing torque	33 kNm	
Holding brake	wet multi-disc (spring applied, pressure	
=	released)	
Option pedal controlled positioning swing brak		
-	process reconstruing ording brance	

Operator's Cab

Operator's Cal	0
Cab	ROPS safety cab structure (roll-over protection system) with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shockabsorbing suspension, sounddamping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen
Operator's seat Standard	air cushioned operator's seat with 3D-adjust- able armrests, headrest, lap belt, seat heater, manual weight adjustment, adjustable seat cushion inclination and length and mechanical lumbar vertebrae support
Operator's seat Comfort (Option)	in addition to operator's seat standard: lockable horizontal suspension, automatic weight adjust- ment, adjustable suspension stiffness, pneu- matic lumbar vertebrae support and passive seat climatisation with active coal
Operator's seat Premium (Option)	in addition to operator's seat comfort: active electronic weight adjustment (automatic re- adjustment), pneumatic low frequency suspen- sion and active seat climatisation with active coal and ventilator
Control system	joysticks with arm consoles and swivel seat, folding left arm console
Operation and displays	large high-resolution operating unit, selfexplan- atory, colour display with touchscreen, video- compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and tool parameters
Air-conditioning	automatic air-conditioning including demisting (optional). Automatic heating and ventilation system (standard): fast de-icing 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; designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures

●=● 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	84 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 and on-road
Axles	manual or automatic hydraulically controlled front axle oscillation lock
Option	four wheel steering
Service brake	two circuit travel brake system with accumulator wet and backlash-free disc brake
Holding brake	wet multi-disc (spring applied, pressure released)
Stabilization	stabilizing blade (adjustable during travel for dozing) 2 point outriggers stabilizing blade front + 2 point outriggers rear divided blade rear divided blade rear and stabilizing blade front

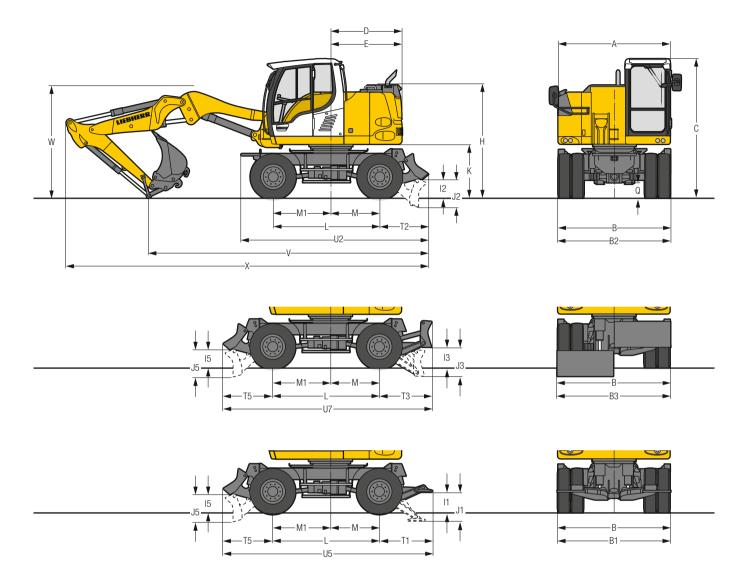


Туре	high-strength steel plates at highlystressed points for the toughest requirements. Complex and stable mountings of attachment and cylin- ders
Hydraulic cylinders	Liebherr cylinders with special seal system as well as shock absorption
Bearings	sealed, low maintenance

Complete Machine

Lubrication	
Option Liebherr central lubrication system for up carriage and attachment, automatically	
Noise emission	
ISO 6396	L_{pA} (inside cab) = 71 dB(A)
2000/14/EC	Lwa (surround noise) = 99 dB(A)

Dimensions

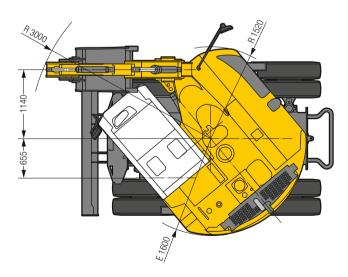


A	mn 2.50
B	2,52
B1	2,55
B2	2,55
B3	2,55
53 C	2,55
, D	3,13
	1,60 1,60
1	2,54:
1	2,34:
2	40
3	46
5	40
5 J1	65
J2	62
13	65
J5	62
(1,19
L	2,40
-	1,10
W1	1,30
Q	34
[1	1,18
T2	1,10
[3	1,17
rs	1,12
J2	4,22
J5	4,70
J7	4,69
= Tail radius	4,00

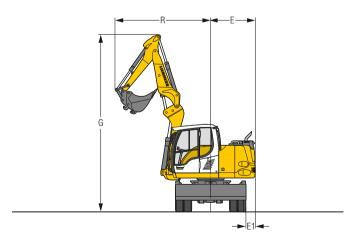
	Stick	Two-piece boom 4.00 m			
		Stabilizer	Divided	Blade	Stabilizer blade
		blade	blade	+ 2 pt. outr.	+ divided blade
	m	mm	mm	mm	mm
٧	1.85	6,300	6,400	6,400	6,400
W	1.85	2,550	2,550	2,550	2,550
X	1.85	8,150	8,250	8,250	8,250

Dimensions are with attachment over steering axle

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



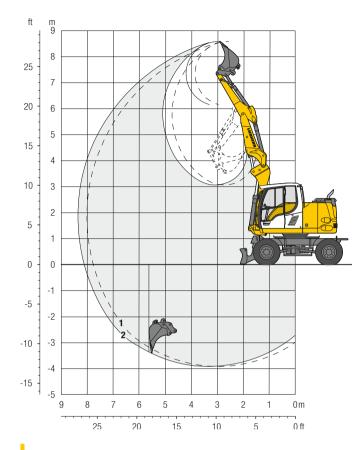
Min. turning radius on tyres 9.00-20	
Four wheel steering 4.18 m	Front wheel steering 6.29 m



Boom	Stick	G	R	E	E1
	m	mm	mm	mm	mm
Two-piece boom	1.85	6,375	3,390	1,600	340

Backhoe Bucket

with Two-Piece Boom 4.00 m



Digging Envelope

_	with quick coupler		2
	Stick length	m	1.85
	Max. digging depth	m	3.95
	Max. reach at ground level	m	8.15
	Max. dumping height	m	6.20
	Max. teeth height	m	8.60
	Min. attachment radius	m	3.39

1 with stick 1.85 m at max. attachment offset

Digging Forces

_	without quick coupler	2
	Max. digging force (ISO 6015) kN	44.8
	t	4.6
	Max. breakout force (ISO 6015) kN	76.3
	t	7.8

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 4.00 m, stick 1.85 m, quick coupler SWA 33 and bucket 750 mm/0.33 m³.

Undercarriage versions	Weight (kg)
A 910 Compact Litronic with stabilizer blade	11,700
A 910 Compact Litronic with divided blade	11,900
A 910 Compact Litronic with stabilizer blade + 2 pt. outriggers	12,400
A 910 Compact Litronic with stabilizer blade + divided blade	12,500

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

Cutting width	acity 7451¹)	Weight	Stabilizers raised	Stabilizer blade down	Divided blade down	Stabilizer blade + 2 pt. outriggers down	Stabilizer blade + divided blade down
Cut	Cap ISO	Wei	Stick length (m)	Stick length (m)	Stick length (m)	Stick length (m)	Stick length (m)
mm	m³	kg	1.85	1.85	1.85	1.85	1.85
3002)	0.15	160			•	•	•
4002)	0.20	190				•	
4502)	0.20	170		•	•	•	
5502)	0.22	190				•	
6502)	0.27	210			•	•	•
7502)	0.33	230				•	
8502)	0.38	240			•	•	•
9502)	0.44	270	Δ				
3003)	0.15	150			•		•
4003)	0.21	180				•	
4503)	0.21	160			•		•
5503)	0.24	190					
6503)	0.30	210			•		•
7503)	0.35	220					
8503)	0.42	240					•
9503)	0.48	270	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

Buckets up to 400 mm cutting width with limited digging depth

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

¹⁾ comparable with SAE (heaped)

²⁾ Bucket with teeth 3) Bucket with teeth in HD-version

Lift Capacities with Two-Piece Boom 4.00 m

Stick 1.85 m

* A		2.0) m	3.0) m	4.0) m	5.0	m	6.0	m	7.0) m	1)
m ∱ 🔏	Undercarriage	⊶ 5	P ₄	→	Ph	<u>5</u>	<u></u>	⊶ 5	L L		L L	-5	L L		L PL	m
7.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down	-				2.5 2.5* 2.5* 2.5* 2.5*	2.5* 2.5* 2.5* 2.5* 2.5*							2.0 2.1* 2.1* 2.1* 2.1*	2.1* 2.1* 2.1* 2.1* 2.1*	4.5
6.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down							1.7 2.0 2.0 2.3* 2.3*	2.3* 2.3* 2.3* 2.3* 2.3*					1.3 1.5 1.5 1.7* 1.7*	1.7* 1.7* 1.7* 1.7* 1.7*	5.8
5.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down							1.7 2.0 2.0 2.4* 2.4*	2.4* 2.4* 2.4* 2.4* 2.4*	1.2 1.4 1.4 1.9 1.9	2.0 2.2* 2.2* 2.2* 2.2*			1.0 1.2 1.2 1.6* 1.6	1.6* 1.6* 1.6* 1.6* 1.6*	6.5
4.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down					2.4 2.6* 2.6* 2.6* 2.6*	2.6* 2.6* 2.6* 2.6* 2.6*	1.7 1.9 2.0 2.5 2.5	2.6 2.7* 2.7* 2.7* 2.7*	1.2 1.4 1.5 1.9	2.0 2.4* 2.4* 2.4* 2.4*	0.9 1.0 1.0 1.4 1.4	1.5 1.6* 1.6* 1.6* 1.6*	0.9 1.0 1.0 1.4 1.4	1.5 1.5* 1.5* 1.5* 1.5*	7.0
3.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down			3.6 4.1 4.2 4.8* 4.8*	4.8* 4.8* 4.8* 4.8* 4.8*	2.3 2.6 2.7 3.5 3.4	3.7 4.0* 4.0* 4.0* 4.0*	1.7 1.9 1.9 2.5 2.4	2.6 3.1* 3.1* 3.1* 3.1*	1.2 1.4 1.4 1.9 1.8	2.0 2.5* 2.5* 2.5* 2.5*	0.9 1.0 1.0 1.4 1.4	1.5 2.2* 2.2* 2.2* 2.2*	0.8 0.9 0.9 1.3 1.2	1.4 1.6* 1.6* 1.6* 1.6*	7.3
2.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down	3.2* 3.2* 3.2* 3.2* 3.2*	3.2* 3.2* 3.2* 3.2* 3.2*	3.5 4.0 4.1 5.5 5.3	5.8 6.1* 6.1* 6.1* 6.1*	2.3 2.6 2.6 3.4 3.3	3.6 4.8* 4.8* 4.8* 4.8*	1.6 1.9 1.9 2.5 2.4	2.6 3.4* 3.4* 3.4* 3.4*	1.2 1.4 1.4 1.9 1.8	2.0 2.7* 2.7* 2.7* 2.7*	0.8 1.0 1.0 1.4 1.3	1.5 2.3* 2.3* 2.3* 2.3*	0.7 0.9 0.9 1.2 1.2	1.3 1.6* 1.6* 1.6* 1.6*	7.4
1.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down	2.9* 2.9* 2.9* 2.9* 2.9*	2.9* 2.9* 2.9* 2.9* 2.9*	3.2 3.7 3.8 5.3 5.1	5.8 6.9* 6.9* 6.9* 6.9*	2.1 2.4 2.5 3.4 3.3	3.6 5.1* 5.1* 5.1* 5.1*	1.5 1.8 1.8 2.4 2.3	2.5 3.6* 3.6* 3.6* 3.6*	1.1 1.3 1.3 1.8 1.7	1.9 2.8* 2.8* 2.8* 2.8*	0.8 1.0 1.0 1.4 1.3	1.4 2.3* 2.3* 2.3* 2.3*	0.7 0.9 0.9 1.2 1.2	1.3 1.8* 1.8* 1.8* 1.8*	7.4
0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down	4.2* 4.2* 4.2* 4.2* 4.2*	4.2* 4.2* 4.2* 4.2* 4.2*	3.0 3.5 3.6 5.1 4.9	5.5 8.0* 8.0* 8.0* 8.0*	2.0 2.3 2.3 3.2 3.1	3.4 5.1* 5.1* 5.1* 5.1*	1.4 1.7 1.7 2.3 2.2	2.5 3.6* 3.6* 3.6* 3.6*	1.1 1.2 1.3 1.7 1.7	1.8 2.8* 2.8* 2.8* 2.8*	0.8 0.9 1.0 1.3	1.4 2.2* 2.2* 2.2* 2.2*	0.8 0.9 0.9 1.3 1.2	1.4 2.0* 2.0* 2.0* 2.0*	7.1
-1.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down	5.6* 5.6* 5.6* 5.6* 5.6*	5.6* 5.6* 5.6* 5.6* 5.6*	2.9 3.4 3.5 5.0 4.8	5.4 8.7* 8.7* 8.7* 8.7*	1.9 2.2 2.3 3.2 3.0	3.4 5.3* 5.3* 5.3* 5.3*	1.4 1.6 1.6 2.2 2.2	2.4 3.8* 3.8* 3.8* 3.8*	1.0 1.2 1.2 1.7 1.6	1.8 2.8* 2.8* 2.8* 2.8*			0.8 1.0 1.0 1.4 1.4	1.5 1.9* 1.9* 1.9* 1.9*	6.7
-2.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down	6.1 6.8* 6.8* 6.8* 6.8*	6.8* 6.8* 6.8* 6.8* 6.8*	3.0 3.5 3.6 5.1 4.9	5.5 8.5* 8.5* 8.5* 8.5*	1.9 2.2 2.3 3.1 3.0	3.3 5.1* 5.1* 5.1* 5.1*	1.3 1.6 1.6 2.2 2.1	2.3 3.4* 3.4* 3.4* 3.4*	1.0 1.2 1.2 1.7 1.6	1.8 1.9* 1.9* 1.9* 1.9*			1.0 1.2 1.2 1.7 1.6	1.7* 1.7* 1.7* 1.7* 1.7*	6.1
-3.0	Stabilizers raised Stabilizer blade down Divided blade down Stabilizer blade + 2 pt. outr. down Stabilizer blade + divided blade down			3.0 3.5 3.6 5.1 4.9	5.5 5.6* 5.6* 5.6* 5.6*									1.9 2.2 2.3 3.2 3.0	3.2* 3.2* 3.2* 3.2* 3.2*	4.0

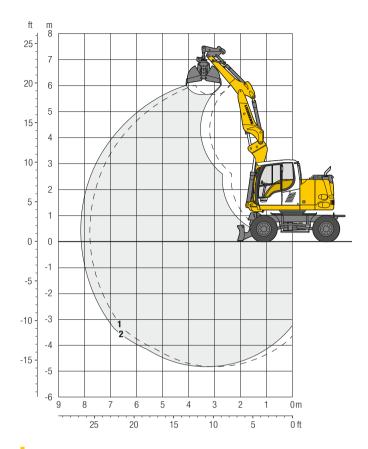
Max. reach * Limited by hydr. capacity
 ‡
 Height
 □
 □
 In longitudinal position of undercarriage

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage $(+/-15^{\circ})$ 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 on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.

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

Clamshell Grab

with Two-Piece Boom 4.00 m



Digging Envelope

with quick coupler		2
Stick length	m	1.85
Max. digging depth	m	4.85
Max. reach at ground level	m	8.15
Max, dumping height	m	5.65

1 with stick 1.85 m at max. attachment offset

Clamshell Grab GM 5B

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

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 4.00 m, stick 1.85 m, quick coupler SWA 33 and clamshell grab GM 5B/0.20 m 3 (600 mm without ejector).

Undercarriage versions	Weight (kg)
A 910 Compact Litronic with stabilizer blade	12,000
A 910 Compact Litronic with divided blade	12,200
A 910 Compact Litronic with stabilizer blade + 2 pt. outriggers	12,700
A 910 Compact Litronic with stabilizer blade + divided blade	12,800

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

Width of clamshells			Stabilizers	Stabilizer blade	Divided blade	Stabilizer blade	Stabilizer blade
she	-5		raised	down	down	+ 2 pt. outriggers	+ divided blade
a H	acit	ight				down	down
Vid	Capacity	Wei	Stick length (m)	Stick length (m)	Stick length (m)	Stick length (m)	Stick length (m)
	_		1.85	1.85	1.85	1.85	1.85
mm	m ³	kg	1.00	1.00	1.00	1.00	1.00
3001)	0.10	410	=	•	-		•
4001)	0.13	440	•				
6001)	0.20	470					
8001)	0.27	510			•		
3002)	0.10	450			•		•
4002)	0.13	490	•			-	•

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

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

¹⁾ without ejector

Attachments **Ditch Cleaning Buckets**

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

utting width	Capacity ISO 74511)	Weight	Stabilizers raised	Stabilizer blade down	Divided blade down	Stabilizer blade + 2 pt. outriggers down	Stabilizer blade + divided blade down
3	ვ ფ	>	Stick length (m)	Stick length (m)	Stick length (m)	Stick length (m)	Stick length (m)
mm	m³	kg	1.85	1.85	1.85	1.85	1.85
Two-pi	ece boo	m 4.00 r	n				
1,2002)	0.29	380	•	•		•	
1,3003)	0.28	300			•	•	■
1,5003)	0.33	330	•			•	•
1,5004)	0.33	210	•	•	=	.	•
1,5002)	0.36	420				•	•
1,7003)	0.37	390		•	•	_	•

^{*} 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

²⁾ with 2 x 50° rotator

³⁾ with 2 x 45° rotator

⁴⁾ rigid ditch cleaning bucket

Equipment

●**=**● Undercarriage

•	
Dual-circuit braking system	•
Stabilizer blade rear	+
Stabilizer blade rear, divided blade	+
Stabilizer blade front, divided blade rear	+
Stabilizer blade front, outriggers rear	+
4-wheel steering (front wheel steering, 4-wheel steering, crab steering)	+
Digging brake, automatic	+
Tyres (twin tyres) Liebherr EM 22 290/90-20	+
Tyres (twin tyres) Mitas EM 22	•
Individual control outriggers	+
Travel speed levels (four)	•
Load holding valve on each stabilization cylinder	•
Powershift transmission, semiautomatic	•
Parking brake, maintenance-free	•
Tyres, variants	+
Protection for travel drive	+
Protection for piston rods, stabilizer cylinder	+
Speeder**	+
Tool equipment, extended	+
Tool box left – lockable	•
Tool box right – lockable	+

Uppercarriage

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

Hydraulic System

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

Diesel Engine

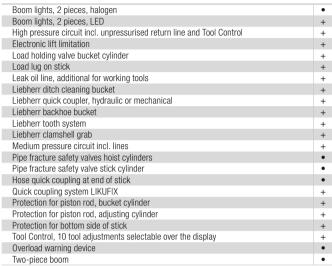
Deutz particle filter	+
Fuel anti-theft device	+
Air pre-filter with dust discharge	+
Automatic engine shut-down (time adjustable)	+
Preheating fuel	+

Operator's Cab

4	Operator 5 cab	
	Storage compartment	•
	Cab lights rear, halogen	+
	Cab lights rear, LED	+
	Cab lights front, halogen (above rain cover)	+
	Cab lights front, halogen (under rain cover)	•
	Cab lights front, LED (above rain cover)	+
	Cab lights front, LED (under rain cover)	+
	Left arm console, folding	•
	Exterior mirror, electrical adjustable, with heating	+
	Mechanical hour meters, readable from outside the cab	•
	Roof window made from impact-resistant laminated safety glass	+
	Operator's seat Standard	•
	Operator's seat Comfort	+
	Operator's seat Premium	+
	Driving alarm (acoustic signal is emitted during travel, can be switched ON/OFF)	+
	Fire extinguisher	+
	Front screen made from impact-resistant laminated safety glass – not adjustable	+
	Windscreen retractable (including upper part)	•
	Cruise control	•
	Joystick steering	+
	Automatic air conditioning	+
	Fuel consumption indicator	•
	Electric cooler	+
	Steering wheel, wide version (cost-neutral option)	+
	Steering column adjustable horizontally	•
	LiDAT, vehicle fleet management	•
	Positioning swing brake	+
	Proportional control	•
	Radio Comfort, control via display with handsfree set	+
	Preparation for radio installation	•
	Rain cover over front window opening	•
	ROPS cab protection	•
	Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+
	Warning beacon on cab, LED	+
	All tinted windows	-
	Windscreen wiper, roof Windshield wiper, entire windscreen	+
	Door with sliding window	+
	Top quard	
	Right side window and windshield made from laminated safety glass	+
	Sun visor	
	Sun blind	+
	Auxiliary heating, adjustable (week time switch)	+
	Electronic immobilizer	+
	Cigarette lighter	+
	Olyarette lightei	•

Equipment





Complete Machine

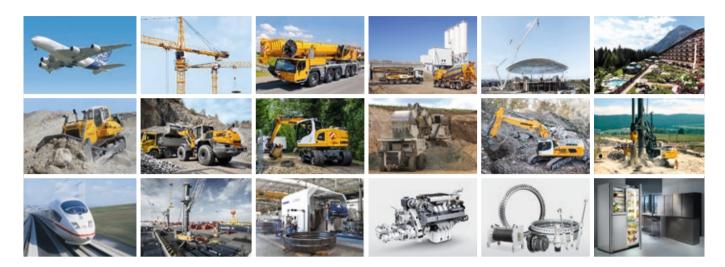
	Lubrication	
	Lubrication uppercarriage and attachment, manually – decentralised (grease points)	•
	Lubrication undercarriage, manually – decentralised (grease points)	•
	Central lubrication system for uppercarriage and attachment, automatically	
	(without quick coupler and connecting link) *	+
	Central lubrication system, extension for quick coupler	+
	Central lubrication system, extension for connecting link	+
	Special coating	
	Custom painting for tools	+
	Special coating, variants	+
	Monitoring	
	Rear view monitoring with camera	•
	Side view monitoring with camera	•

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

^{• =} Standard, + = Option
* = country-dependent, ** = depending upon the country partially only 25 km/h permitted

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The Liebherr Group of Companies



Wide Product Range

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

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical 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 that time, the enterprise has steadily grown to a group of more than 130 companies with over 41,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.com