Mining Excavator

R 9250

Operating Weight with Backhoe Attachment:
Operating Weight with Shovel Attachment:

Engine Output:

Bucket Capacity: Shovel Capacity:

250,000 kg / 551,150 lb 253,500 kg / 558,870 lb 960 kW / 1,287 hp

13.00 - 17.00 m³ / 17.0 - 22.2 yd³ 13.00 - 17.00 m³ / 17.0 - 22.2 yd³



LIEBHERR

R 9250

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Shovel Capacity: 13.00 - 17.00 m³ / 17.0 - 22.2 yd³



Productivity and Efficiency

Liebherr's R 9250 mining excavator integrates the latest technology to perform efficiently in all types of mining environments. Even under the hardest conditions, it achieves high productivity. Always ready for job, the R 9250 is your key to the lowest operating and owning cost per tonne.

Reliability

More than 50 years of experience in designing and manufacturing hydraulic excavators are the basis for the outstanding reliability of the R 9250. This excavator combines innovative solutions, excellent design and Liebherr long-life components, ensuring maximum availability and performance throughout the whole equipment life.

Customer Support

On site, Liebherr's customer support delivers tailor-made professional solutions to your project specifics and site requirements. Liebherr offers a partnership with the goal of mining more for less.

Operating and Servicing

The R 9250's operator cab creates a comfortable and ergonomic working environment. The electronic machine controls assure the best operator performance throughout each shift. Furthermore, the ergonomic component access and long service intervals assist the service team to ensure more uptime.

Safety & Environment

The Liebherr R 9250 provides uncompromising safety for







Electronic Cylinder End Position Control

- Patented system based on electronic control
- Smooth attachment movements even when working close to cylinder end position
- No shocks when reaching attachment end position
- No oil heating when reaching cylinder end position
- Energy saving by limiting the oil flow
- Allows the operator to focus on loading





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Reach a New Level of Productivity

Liebherr Electronic Machine Control Litronic Liebherr's electronic machine control Litronic contributes to fast loading cycles and easy control, even if multiple movements are required at the same time. The electronic control of the hydraulic system enhances pressure and flow distribution as a function of the machine movement. Thanks to the electronic cylinder end position control the operator can fully focus on the job.

High Digging Forces

The production-tailored attachment kinematics combi-ned with a mining-optimized bucket shape ensure the highest crowd and breakout forces. Even under tough conditions Liebherr's R 9250 high digging force allows easy bucket penetration and high bucket fill factors achieving high productivity.

Closed Loop Swing Circuit

With an independent swing circuit the machine allows the maximum swing torque whilst retaining the full oil flow for the working circuit.

Compact Machine Design

Liebherr's excavator design is well-balanced and provides best machine stability. The high weight distribution towards the undercarriage contributes to an efficient utilization of the strong digging forces and a favorable power to weight ratio of the uppercarriage and attachment.

Efficiency for Less Cost

Efficient Cooling System

Liebherr's large dimensioned cooling system reduces fan power consumption and ensures an ideal machine temperature. The hydrostatic fans operate always on the required level.

High Hydraulic Efficiency

The high pressure level of Liebherr hydraulic system together with the optimized pipe and hose layout maximize the usable power transmission. The Pressure Less Boom Down function combined with the oil regeneration on the attachment saves energy and reduces swing back time.

Automatic Idle Control

The electronic control of the hydraulic system and engine allows automatic idle mode contributing to less fuel consumption and load on the engine.

Advanced Attachment Kinematics

- Advanced attachment technology and design for optimized digging force distribution
- Precise fast and slow machine movement control with electronic oil flow control



Hydraulic Efficiency

- Pressure Less Boom Down Function for fast cylinder retraction without power consumption
- Regeneration for optimized oil volume flow
- Low fan power consumption





Finite Element Analysis (FEM)

- Multibody simulations
- Fatigue calculations for longest possible lifetimes





Reliability

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Experience Liebherr Quality

Over 50 Years of Experience

Since 1954, Liebherr has been designing, manufacturing and servicing crawler mounted excavators used in toughest applications. Like its predecessors, Liebherr's R 9250 benefits from this long-time experience in the customer-focused design with modern engineering solutions and extensive mining knowledge.

Quality Management

Liebherr's quality processes commence with the machine design and simulations. Liebherr meets the highest industry standards for special selections of steels and selection of special casting materials. During manufacturing and assembly, Liebherr quality management follows all manufacturing steps, ensuring highest quality of each machine delivered. Liebherr hydraulic excavator plants are ISO 9001 certified.

Heavy Duty Excavator

First-class components and machine steel structures ensure a high machine reliability, even in hard mining conditions.

Advanced Design of All Mining Applications

Machine Design

Liebherr's design processes include the latest and product specific numerical engineering tools, such as Finite Element Analyses, Fatigue Calculations, Torque and Displacement Analysis and Multibody Simulations. These modern techniques allow reliable engineering solutions for series and special applications.

Specific Solutions

As each project is unique, Liebherr is developing and supplying solutions to ensure performance and reliability in specific mining environments. Liebherr's R 9250 can be customized to operate in regions with temperatures of down to -40°C / -40°F or up to 55°C / 131°F, as well as in high-altitude regions of up to 4,500 m above sea level. Liebherr also offers specific bucket-tailored solu-tions for each type of application.

Liebherr Buckets

- The right size for each application
- Robust structural design adapted to machine's high digging and breakout forces
- Customized and site-specific wear packages configuration
- Face shovel and backhoe configuration available



Liebherr Components

- Major components developed and manufactured in-house
- Designed specifically for mining operations
- Liebherr Service Exchange Program





Service Exchange Units (SEU)

Rebuild programs for components are conducted by Liebherr-certified repair shops, using best practice guidance to ensure:

- Maximum component life
- Long-term reliability
- High performance
- Cost-efficiency
- High quality





Customer Support

On site, Liebherr's customer support delivers tailor-made professional solutions to your project specifics and site requirements. Liebherr offers a partnership with the goal of mining more for less.

Your Mining Partner

Parts Logistics and Services

Liebherr parts and service follow the machine into the field with international logistics platforms ensuring parts supply and maintenance services worldwide.

Customized Service and **Product Support**

Depending on specific requirements, Liebherr offers tailored support solutions integrating parts exchange and management agreements, service and maintenance on site or maintenance management agreements.

Service Exchange Units

Rebuild programs for components are conducted by Liebherr-certified repair shops, ensuring rebuilt component life and reliability match new component performance expectations.

Complete Training Solutions

Dedicated to mining the Liebherr training team provides operator and maintenance staff training programs to al-low cost-efficient and safe operations. Liebherr offers customized on-site training courses according to your needs.

Factory Support

Service Engineering

Liebherr design and field service engineers accompany the excavators throughout the whole machine life. Liebherr's sales and service organizations and the Liebherr factories' product engineering groups provides fast and proactive support to the mining industry.

Service Tools

Liebherr affords service tools for excavator-specific maintenance which ensure safe working even when hand-ling large excavator components.

Liebherr Service Tools

- Fast component replacement
- Designed specifically for requirements on Liebherr machines
- High operational safety
- Cost-efficiency for service operations
- Usable on different excavator sizes



Liebherr Training Programs

Competence-based training, employing an interdisciplinary learning strategy:

- Liebherr Mining Training Centers
- Available in different languages
- Customized training courses on site





Electronic Machine Controls and Diagnostics

- Electronic joysticks for easy machine operations
- LCD operator display for machine control and easy service diagnostic
- Each lubrication circuit can be set individually through operator's dashboard





Operating and Servicing

The R 9250's operator cab creates a comfortable and ergonomic working environment. The electronic machine controls assure the best operator performance throughout each shift. Furthermore, the ergonomic component access and long service intervals assist the service team to ensure more uptime.

Operator Workplace

Comfortable Working Environment The R 9250's spacious cab offers ideal working conditions and first-class comfort. The adjustable air suspension seat fits to individual needs. Best visibility over the whole working environment is provided by the enhanced position of the cab. The hanging arch hose arrangement allows to oversee large areas of the uppercarriage. Additionally a camera system shows areas that can't be observed directly. The cab's effective insulation creates a quiet working environment for maximum productivity.

Ergonomic Control Elements

The configuration and placement of operator control elements and monitoring displays are perfectly coordinated to support the productive performance. The electronic control is easy and intuitive to use. The dashboard and machine control panel are easy to access and arranged for fast overview on major machine functions.

Easy Serviceability

Ergonomic Service Access

The Liebherr R 9250 provides ergonomic component access for fast and efficient service. All service points are within reach through large catwalks and walkways. The centralized drop down flap allows easy and safe refilling and exchange of all service fluids, preventing spillage and reducing contamination by dust. The electronic health monitoring system assists in trouble-shooting and maintenance tasks. Liebherr excavators are equipped with louvers for easy access of ground based support tools.

Extended Service Intervals

Designed for mining operations the R 9250 offers all features for extended machine services intervals. The filtration systems with integrated by pass hydraulic oil filters and the large grease systems are only two of them. The fuel tank enables an operation beyond 24 hours prior re-fuelling.

Comfort in Cab

- Tinted safety glass all-around with heavy duty sun louvers on all windows
- Pressurized to prevent dust penetration
- Low vibrating and soundproof
- Operator eye level of 6.35 m / 20'83" for clear view of truck body and overall digging area



Extended Service Intervals

- Large fuel tank capacity of 5,440 I / 1,434 gal for high machine endurance
- Oil sample points oil analyses
- Air filter cyclone pre-cleaner with automatic dust ejection
- Automatic single-line central lubrication system
- Extended grease tank (optional)





Safe Machine Access

- Powered access ladder with perforated steps
- Access ladders and catwalks feature handrails and slip-resistant surfaces
- Emergency egress with handrail at the front of the excavator





Safety and Environment

The Liebherr R 9250 provides uncompromising safety for operators and maintenance crews, with innovative technologies integrated into the machine.

Safety Integrated Design

Easy and Safe Machine Access

All railings and catwalks are laid out to easily access all relevant machine areas. An optional 45° stair helps ac-cessing the machine comfortably. In case of emergency stops the stair is automatically activated.

Protected Operator and Service Crew

The cab has an integrated FOPS structure. The armored front and attachment side windows create a safe working environment for operators. All other windows are of laminated safety glass. Emergency stop arrangements in the cab as well as in the pump compartment, valve bank, engine compartment and at ground level ensure safe maintenance tasks. Safety standards are achieved by a separated engine and pump compartment, heat insulation on turbochargers and on the exhaust system as well as by the use of heavy duty high resistant hydraulic hoses.

Environmental Care

Ecological Features

Throughout the whole design and manufacturing pro-cess of Liebherr machines, environmental protection is given high priority. Material used for machine assembly is recyclable at 95 %. The hydraulic system allows the use of biodegradable hydraulic oils. The automatic idle mode contributes to less fuel consumption and less load on the engine resulting in reduced CO₂ emissions.

Electrical Drive for Even More Power and Efficiency Liebherr's fully integrated optional electrical drive system allows for high operating efficiency and additional power. Due to the long service intervals of electrical motors, uptime can be enhanced while maintenance costs are decreased. The silent electrical drive contributes to health and safety requirements.

Operation under Sound Restriction Liebherr provides solutions for operations close to residential areas with machine-specific sound attenuation packages. The approach is based on both removal of noise at the source and passive sound attenuation resulting in low machine noise emissions.

Electric Motor

- High efficiency
- Long service intervals
- Reduced maintenance costs
- Higher component lifetime due to less vibration
- Silent electric drive contributes to health, safety and environmental care



Sound Attenuation Kit

- Full integration into machine structure
- Noise-optimised fan regulation
- Long life sound attenuation on doors and walls
- Soundproof louvers
- Valve bank covering

Technical Data



Engine

_960 kW/1,287 hp at 1,800 rpm
_ QSK45 (Tier 1) _ 12 cylinder turbocharged V-engine
after-cooler
two separate water cooling circuits direct injection system
_ 45 I/2,745 in ³
_ 159/190 mm/6.26/7.48 in
_ fans driven via hydraulic piston motor
_ dry-type air cleaner with pre-cleaner, with automatic dust ejector, primary and safety elements
_ 5,440 l/1,434 gal
, , 3
_24 V
_6 x 170 Ah/12 V
_24 V/260 Amp
sensor controlled
engine speed sensing over the entire engine RPM range. Provides integration of engine with other machine systems



Electric Motor (optional)

1 electric motor	
Power output	_ 1,050 kW/1,408 hp
Type	_ 3 phase AC squirrel cage motor
Voltage	_ voltage on request
Frequency	_ 50 Hz (or 60 Hz - dependent on country)
Revolutions	_ 1,500 rpm or 1,800 rpm
Motor cooling	_ integrated air-to-air heat exchanger
Starting method	reduction of inrush current



Hydraulic System

	-
Hydraulic pumps for attachment and	
	2 x 771 l/min. + 1 x 579 l/min./
Max. hydr. pressure Hydraulic pump	2 x 204 gpm + 1 x 153 gpm 320 bar/4,640 psi
for swing drive	2 reversible swash plate pumps, closed- loop circuit
Max. flow Max. hydr. pressure	_ 2 x 352 l/min./2 x 93 gpm _ 320 bar/5,076 psi
Pump management	electronically controlled pressure and flow management with oil flow optimisation
Hydraulic tank capacity Hydraulic system	_2,281 Ĭ/602 gal
capacity	4,050 l/1,070 gal
	1 high pressure safety filter after each high pressure pump + fine filtration of entire return flow
Hydraulic oil cooler	cooler with temperature controlled fans driven via hydraulic piston motor



Hydraulic Controls

Servo circuit	independant, electric over hydraulic proportional controls of each function
Emergency control	via accumulator for all attachment functions with stopped engine
Power distribution	via monoblock control valves with inte- grated primary relief valves and flanged on
Flow summation	secondary valves for travel to attachment and travel drive
Control functions	to attachment and travel drive
Attachment and	
swing	_ proportional via joystick levers
Travel	_ proportional via foot pedals or hand levers
Rottom dump bucket	proportional via foot pedals



Electric System

Electric isolation	easy accessible battery isolations
Working lights	high brightness halogen lights:
	 2 on working attachment
	 1 on RHS of uppercarriage
	 3 on LHS of uppercarriage
	- 2 on counterweight
	Xenon lights in option
Emergency stop switches_	at ground level, in hydraulic compartment,
	in engine compartment and in operator cab
Electrical wiring	heavy duty execution in IP 65 standard for
-	operating conditions of – 50 °C to 100 °C/
	– 58 °F to 212 °F



Swing Drive

Hydraulic motor	2 Liebherr axial piston motors
Swing gear	2 Liebherr planetary reduction gears
Swing ring	Liebherr, sealed triple roller swing ring,
	internal teeth
Swing speed	0 – 4.4 rpm
Swing-holding brake	— hydraulically actuated, maintenance-free, multi-disc brakes integrated in each swing
	gear



Uppercarriage

Design	torque resistant designed upper frame in
3	box type construction for superior strength
	and durability
Attachment mounting	parallel longitudinal main girders in box-
	section construction
Machine access	on the cab side with a hydraulically driven
	access ladder, additional emergency ladder
	in front of the cab



Service Flap

Design	hydraulically actuated service flap, easily accessible from ground level to allow: - fuel fast refill - engine oil quick change - swing ring teeth grease barrel refilling via
	grease filter – attachment/swing ring bearing grease barrel refilling via grease filter – hydraulic oil refill
	 hydraulic oil draining splitterbox oil refill windshield wash water refilling

Other coupler type on request

Technical Data



Operator's Cab

_	
Design	resiliently mounted, sound insulated, large windows for all around visibility, integrated falling object protection FOPS
Operator's seat	suspended, body-contoured with shock absorber, adjustable to operator's weight
Cabin windows	20.5 mm/0.8 in tinted armored glass for front window and right hand side windows, all other windows in tinted safety glass, high pressure windshield-washer system 75 l/20 gal watertank, sun louvers on all windows in heavy duty design
Heating system/	
Air conditioning	 heavy duty, high output air conditioner and heater unit
Cabin pressurization	_ ventilation with filter
Controls	_joystick levers integrated into armrest of seat
Monitoring	via LCD-Display, data memory
Rear vision system	camera installation on counterweight and right-hand side of the uppercarriage displayed over an additional LCD-display
Automatic engine shut off	engine self-controlled shut off
Destroking of main	ŭ
	in case of low hydraulic oil level
Safety functions	_aditional gauges with constant display for:
,	engine speed, hourmeter, voltmeter, safety mode for engine speed control and pump regulation
Noise level (ISO 6396)	_ Diesel: L _{pa} (inside cab) = 77,2 dB(A) with oil/water fans at 100 % and AC fan at 65 %
	Electric: L_{pa} (inside cab) = 69,7 dB(A) with oil/water fans at 100 % and AC fan at 65 %



Undercarriage

Design	_ 3-piece undercarriage, box type structures for center piece and side frames,
	stress relieved
Hydraulic motor	_2 axial piston motors per side frame
Travel gear	
Travel speed	$_{-}0 - 2.3 - 3.0 \text{ km/h/0} - 1.40 - 1.90 \text{ mph}$
Parking brake	_ spring engaged, hydraulically pressure released wet multi-disc brakes for each travel motor, maintenance-free
Track components Track rollers/	_ D 12, maintenance-free
Carrier rollers	_9/2
Automatic track	
tensioner	hydraulic and grease tensioner
Transport	undercarriage side frames are removable



Central Lubrication System

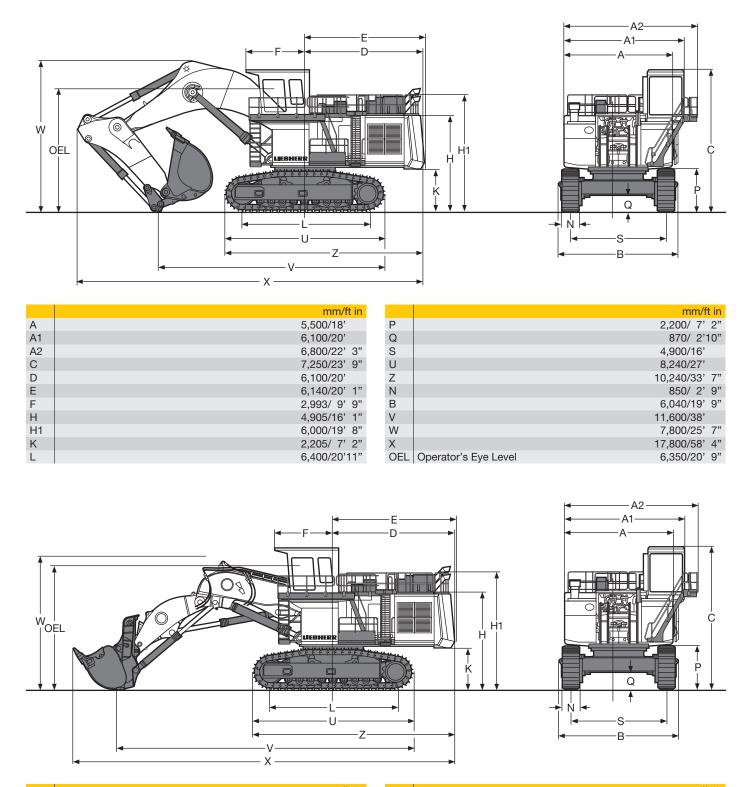
Type	Lincoln Centromatic lubrication system, for the entire attachment/swing ring bearing and teeth
Grease pumps	Lincoln Flowmaster pump plus separate pump for swing ring teeth
Capacity	80 l/21.1 gal bulk container for attachment/ swing ring bearing, separated 15 l/4.0 gal bulk container for swing ring teeth
Refill	via the service flap for both containers, fill line with grease filters
Option	_ 200 I/53 gal grease bulk container for attachment/swing ring bearing



Attachment

Design	box-type structure with large steel castings
Stick	in all high-stress areas wear protection underneath lower beam plate
Pivots	sealed and floating pins
Hydraulic cylinder	Liebherr design, sealed bearings, electronically controlled end-cushioning
Hydraulic connections	pipes and hoses equipped with SAE split- flange connections
Pivots bucket-to-stick	nango oomoonono
Pivots bucket-to-link	O-ring sealed and completely enclosed
Kinematics	Liebherr parallel face shovel attachment geometry, electronic controlled end-cushioning

Dimensions

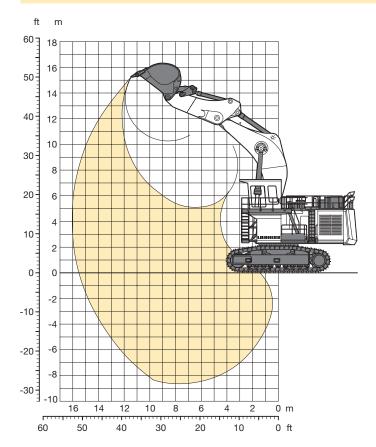


	mm/tt in
Α	5,500/18'
A1	6,100/20'
A2	6,800/22' 3"
С	7,250/23' 9"
C D E	6,100/20'
E	6,140/20' 1"
	2,993/ 9' 9"
Н	4,905/16' 1"
H1	6,000/19' 8"
K	2,205/ 7' 2"
L	6,400/20'11"

		mm/ft in
Р		2,200/ 7' 2"
Q S		870/ 2'10"
S		4,900/16'
U Z		8,240/27'
Z		10,240/33' 7"
Ν		850/ 2' 9"
В		6,040/19' 9"
V		17,400/57'
W		6,700/21'11"
Χ		19,600/64' 3"
OEL	Operator's Eye Level	6,350/20' 9"

Backhoe Attachment

with Gooseneck Boom 9.00 m/29'6"



Digging Envelope	
Stick length	4.00 m/13' 1"
Max. reach at ground level	15.50 m/50'10"
Max. teeth height	15.20 m/49'10"
Max. dump height	10.30 m/33' 9"
Max. digging depth	8.70 m/28' 6"
Max. digging force (SAE)	780 kN/175,351 lbf
Max. breakout force (SAE)	859 kN/193,111 lbf

Operating Weight and Ground Pressure

The operating weight includes the basic machine with backhoe attachment and a 15.00 $\,\mathrm{m}^3/19.6\,\mathrm{yd}^3$ bucket.

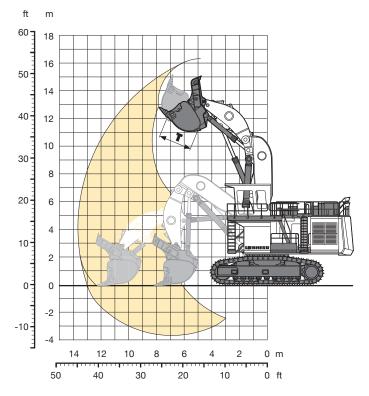
Pad width	mm/ft in 850/2'9"
Weight	kg/lb 250,000/551,155
Ground pressure	kg/cm ² /psi 2.08/29.58

Buckets							
For materials classe							
according to VOB, Section C, DIN 18300		< 5	< 5	5 – 6	5 – 6	5 – 6	7 – 8
Typical operation							
according to VOB, Section C, DIN 18300		GP	GP	HD	HD	HD	XHD
Capacity ISO 7451	m³	16.00	17.00	13.00	15.00	17.00	13.50
	yd ³	20.93	22.24	17.00	19.62	22.24	17.66
Suitable for material up to a specific weight of	t/m³	1.8	1.7	2.1	1.8	1.6	1.8
	lb/yd ³	3,035	2,867	3,541	3,035	2,698	2,867
Cutting width	mm	3,300	3,500	3,000	3,120	3,500	3,160
	ft in	10'9"	11'5"	9'10"	10'2"	11'5"	10'4"
Weight	kg	14,300	14,800	14,300	15,500	16,400	19,200
	lb	31,526	32,628	31,526	34,172	36,156	42,329

GP: General purpose bucket with Esco 85SV2 teeth HD: Heavy-duty bucket with Esco 85SV2 teeth XHD: Heavy-duty rock bucket with Esco 85SV2 teeth

Shovel Attachment

with Shovel Boom 6.37 m/20'9"



Digging Envelope	
Stick length	4.20 m/13'9"
Max. reach at ground level	13.00 m/42'7"
Max. dump height	11.00 m/36'
Max. crowd length	4.00 m/13'1"
Bucket opening width T	2.15 m/ 7'
Crowd force at ground level	1050 kN/236,049 lbf
Max. crowd force	1210 kN/272,019 lbf
Max. breakout force	935 kN/210,196 lbf

Operating Weight and Ground Pressure

The operating weight includes the basic machine with shovel attachment and a 15.00 $\,$ m³/19.6 $\,$ yd³ bucket.

Pad width	mm/ft in 8	850/2'9"
Weight	kg/lb 2	253,500/558,871
Ground pressure	kg/cm ² /psi 2	2.12/30.15

Bottom Dump Buckets							
For materials classe							
according to VOB, Section C, DIN 18300		< 5	< 5	5 – 6	5 – 6	7 – 8	7 – 8
Typical operation							
according to VOB, Section C, DIN 18300		GP	GP	HD	HD	XHD	XHD
Capacity ISO 7546	m ³	17.00	7.70	13.00	15.00	11.00	13.00
	yd ³	22.24	10.07	17.00	19.62	14.39	17.00
Suitable for material up to a specific weight of	t/m³	1.6	1.7	2.1	1.8	2.3	1.8
	lb/yd3	2,698	2,867	3,541	3,035	3,879	3,035
Cutting width	mm	3,700	2,900	3,700	3,700	3,700	3,700
	ft in	12'1"	9'6"	12'1"	12'1"	12'1"	12'1"
Weight	kg	27,000	11,000	27,000	27,000	28,000	29,000
	lb	59,525	24,251	59,525	59,525	61,729	63,934
Wear kit level		I	1	II	II	III	III

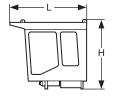
GP: General purpose bucket with Esco 85SV2 teeth
HD: Heavy-duty bucket with Esco 85SV2 teeth
XHD: Heavy-duty rock bucket with Esco 85SV2 teeth

Level I: For non-abrasive materials, such as limestone, without flint inclusion, shot material or easily breakable rock, i.e., deteriorated rock, soft limestone, shale, etc.

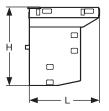
Level II: For preblasted heavy rock, or deteriorated, cracked material (classification 5 to 6, according to DIN 18300)

Level III: For highly-abrasive materials such as rock with a high silica content, sandstone etc.

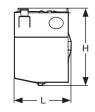
Component Dimensions and Weights



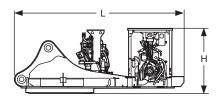
Cab		
L Length	mm/ft in	3,215/10'6"
H Height	mm/ft in	2,885/ 9'5"
Width	mm/ft in	1,900/ 6'2"
Weight	kg/lb	3,400/7,496



Cab Elevati	ion	
L Length	mm/ft in	2,315/7' 7"
H Height	mm/ft in	2,457/8'
Width	mm/ft in	1,496/4'10"
Weight	kg/lb	2,802/6,177

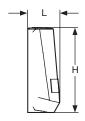


Fuel Tank		
L Length	mm/ft in	2,550/ 8' 4"
H Height	mm/ft in	3,450/11' 3"
Width	mm/ft in	3,045/ 9'11"
Weight	kg/lb	1,950/4,299

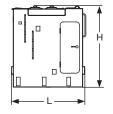


Rotation Deck (with swing ring, swing gears, control valve bracket and engine with pumps)

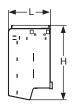
L Length	mm/ft in	7,670/25'1"
H Height	mm/ft in	2,855/ 9'4"
Width	mm/ft in	4,099/13'5"
Weight	kg/lb	45,000/99,208



Counterwei	ght	
L Length	mm/ft in	1,025/ 3' 4"
H Height	mm/ft in	2,730/ 8'11"
Width	mm/ft in	6,000/19' 8"
Weight	kg/lb	25,320/55,821

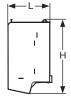


Hydraulic Tank		
L Length	mm/ft in	2,325/7'7"
H Height	mm/ft in	2,582/8'5"
Width	mm/ft in	1,354/4'5"
Weight	kg/lb	5,390/11,883

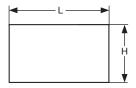


Oil Radiator Installation		
L Length	mm/ft in	1,595/5'2"
H Height	mm/ft in	2,660/8'8"
Width	mm/ft in	2,070/6'9"
Weight	kg/lb	1,750/3,858

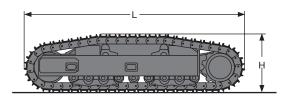
Component Dimensions and Weights



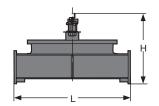
Water Radiator Installation					
L	Length	mm/ft in		1,565/5'	1"
Н	Height	mm/ft in		2,660/8'	8"
	Width	mm/ft in		2,430/7	11"
	Weight	ka/lh		2 980/6 5	70



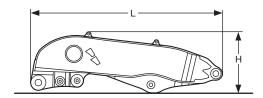
S	mall P	ieces	
L	Length	mm/ft in	4,500/14'9"
Н	Height	mm/ft in	2,600/ 8'6"
	Width	mm/ft in	2,000/ 6'6"
	Weight	kg/lb	4,500/9,921



S	ide Frame (tw	0)	
L	Length	mm/ft in	8,240/27'
Н	Height	mm/ft in	2,180/ 7'1"
	Width over travel drive	mm/ft in	2,190/ 7'2"
	Width without travel drive	mm/ft in	1,335/ 4'4"
	Weight	ka/lb	2 x 37.000/2 x 81.571



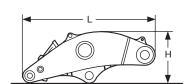
Undercarriage Central Girder		
L Length	mm/ft in	3,650/11'11"
H Height	mm/ft in	2,190/ 7' 2"
Width	mm/ft in	4,420/14' 5"
Weight	kg/lb	18.500/40.785



Shovel Boo	n	
L Length	mm/ft in	7,000/22'11"
H Height	mm/ft in	2,600/ 8' 6"
Width	mm/ft in	3,300/10' 9"
Weight	kg/lb	19,240/42,417



S	hovel	Hoist Cylinder	r (two)
L	Length	mm/ft in	4,300/14'1"
Ø	Diameter	mm/ft in	500/ 1'7"
	Weight	ka/lb	2 x 3.088/2 x 6.808

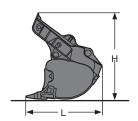


Shovel Stick	X .	
L Length	mm/ft in	4,800/15'8"
H Height	mm/ft in	2,000/ 6'6"
Width	mm/ft in	3,100/10'2"
Weight	kg/lb	11,750/25,904

Component Dimensions and Weights



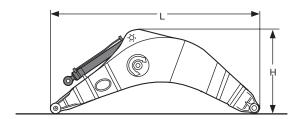
Crowd	Cylinder (two)
L Length	mm/ft in	3,640/11'11"
Ø Diameter	mm/ft in	365/ 1' 2"
Weight	ka/lb	2 x 1.340/2 x 2.954



Bottom Dump	Bucket	t e
Application		HD
Capacity ISO 7451	m ³ /yd ³	15.00/19.62
L Length	mm/ft in	3,600/11'9"
H Height	mm/ft in	3,900/12'9"
Width	mm/ft in	3,800/12'5"
Weight	kg/lb	27,000/59,525



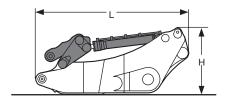
Bucket Tilt Cylinder (two)					
L	Length	mm/ft in	3,830/12'6"		
Ø	Diameter	mm/ft in	365/ 1'2"		
	Weight	ka/lb	2 x 1 545/2 x 3 406		



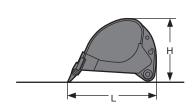
_	ooseneck ith Stick	Cylinders	
L	Length	mm/ft in	9,600/31'5"
Н	Height	mm/ft in	3,900/12'9"
	Width	mm/ft in	2,200/ 7'2"
	\Maiabt	ka/lb	24 500/54 012



Backhoe Ho	oist Cylinders	s (two)
L Length	mm/ft in	4,580/15'
Ø Diameter	mm/ft in	500/ 1'7"
Weight	ka/lb	2 x 3.140/2 x 6.923



Stick with Bucket Cylinders				
L Length	mm/ft in	5,900/19'4"		
H Height	mm/ft in	2,600/ 8'6"		
Width	mm/ft in	2,000/ 6'6"		
Weight	kg/lb	16,020/35,318		



Backhoe Bucket				
Application		HD		
Capacity ISO 7451	m ³ /yd ³	15.00/19.62		
L Length	mm/ft in	3,900/12'9"		
H Height	mm/ft in	2,900/ 9'6"		
Width	mm/ft in	3,400/11'1"		
Weight	kg/lb	13,150/28,991		

All illustrations and data may differ from standard equipment. Subject to change without notice. All indicated loads are based in accordance with ISO 9248.

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