

Technical data

E-drive

1 GE E-Motor			
Power output	1,050 kW (1,408 HP)		
Туре	3-phase AC squirrel cage motor		
Voltage	6,000 V, other voltage on request		
Frequency	50 Hz (or 60 Hz)		
Revolutions	1,500 rpm or 1,800 rpm		
Motor cooling	integrated air-to-air heat exchanger		
Starting method	inrush current limited to 2.2 full load current		

Electro-hydraulic controls

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

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	0-4.4rpm		
Swing-holding brake	hydraulically actuated, maintenance-free, multi-disc brakes integrated in each swing gear		

Hydraulic system

Hydraulic pump		
for attachment and travel drive	3 variable flow axial piston pumps	
Max. flow	2 x 771 l/min. + 1 x 579 l/min. / 2 x 204 gpm + 1 x 153 gpm	
Max. pressure	320 bar / 4,640 psi	
for swing drive	2 reversible swashplate pumps, closed-loop circuit	
Max. flow	2 x 352 l/min. / 2 x 93 gpm	
Max. pressure	320 bar / 4,640 psi	
Pump management	electronically controlled pressure and flow management with oil flow optimisation	
Hydraulic tank capacity	2,8261/747 gal	
Hydraulic system capacity	4,050l/1,070gal	
Hydraulic oil filter	1 high pressure safety filter after each high pressure pump + fine filtration of entire return flow (15/5 µm)	
Hydraulic oil cooler	cooler with temperature controlled fans driven via hydraulic piston motor	

Electric system

Electric isolation	easy accessible battery isolators
Working lights	high brightness LED lights: - 4 on working attachment - 2 on cabin - 4 on RHS of uppercarriage - 4 on LHS of uppercarriage
24 V E-stop	at ground level, in hydraulic compartment, in powertrain compartment, on control valve and in operator cab
High voltage E-stop	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

Uppercarriage

Design	torque resistant designed upper frame in box-type construction for superior strength and durability		
Attachment mounting	parallel longitudinal main girders in box section construction		
Machine access	45° access system with handrails on the cab side of the upper- carriage, full controlled descent in case of emergency stop additional emergency ladder fitted near the cab		

Cab

Design	resiliently mounted, sound insulated, large windows for all around visibility, integrated falling object protection FOPS (ISO 10262)		
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 18 mm/0.7 in for right-hand side windows, all other windows in tinted safety glass, high pressure windshield-washer system 751/20 gal watertank, sun louvers on all windows in heavy duty design		
Heating system/ Air conditioning	heavy duty, fully automatic, high output air conditioner and heater unit, contains fluorinated greenhouse gases HFC 134a with a Global Warming Potential (GWP) of 1430, the AC circuit contains 7.5 kg / 16.5 lb of HFC-134 representing an equivalent of 10.7 tonnes / 11.6 tons of CO ₂ , the 2 nd AC circuit (optional) contains 5 kg / 11 lb of HFC-134 representing an equivalent of 7.2 tonnes / 7.9 tons of CO ₂		
Cabin pressurization	ventilation with filter, minimum pressurization of 50 Pa (ISO 10263-3)		
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		
Destroking of main pumps	in case of low hydraulic oil level		
Noise level (ISO 6396)	L _{pA} (inside cab) = 70 dB(A)		

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	Liebherr planetery reduction gear	
Travel speed	0-2.0 km/h/0-1.24 mph	
Parking brake	spring engaged, hydraulically pressure released wet multi-disc brakes for each travel motor, maintenance-free	
Track components	D 12, maintenance-free, forged double grouser pad	
Track rollers / Carrier rollers	9/2 per side frame	
Automatic track tensioner	hydraulic and grease tensioner	
Transport	undercarriage side frames are removable	

Service flap

Design	hydraulically actuated service flap, easily accessible from ground level to allow: - 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

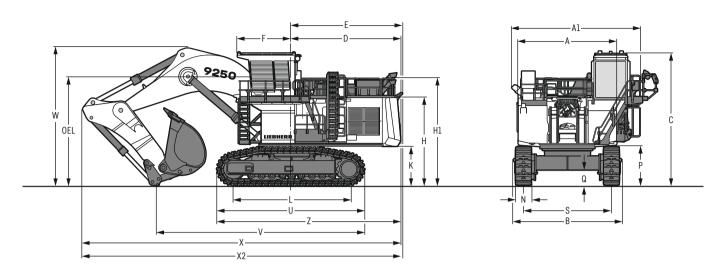
Central lubrication system

Туре	automatic single-line lubrication system, for the entire attach- ment/swing ring bearing and teeth
Grease pumps	Lincoln Powermaster pump plus separate P203 pump for swing ring teeth
Capacity	200 l/53 gal bulk container for attachment/swing ring bearing, separated 15 l/4 gal bulk container for swing ring teeth
Refill	via the service flap for both containers, fill line with grease filters
Monitoring	via a specific Liebherr control module with data memory

Attachment

Design	box-type structure with large steel castings in all high-stress areas		
Stick	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 Pivots bucket-to-link	O-ring sealed and completely enclosed		
Kinematics	Liebherr parallel face shovel attachment geometry, electronic controlled end-cushioning		

Dimensions

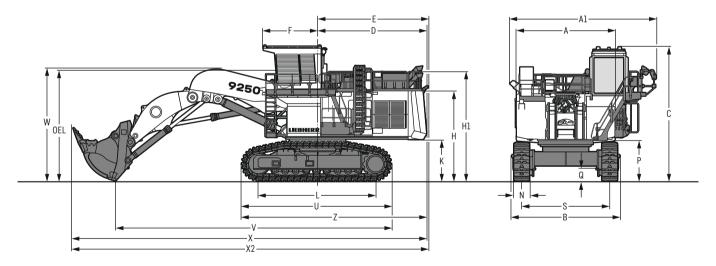


	mm/ft in		mm/ft in
A	5,500/18'	F	3,000/ 9'10"
Al	8,145/26' 9"	Н	4,930/16' 2"
В	6,183/20' 3"	H1	6,000/19'8"
С	7,600/24'11"	K	2,200 / 7' 3"
D	6,100/20'	L	6,396/21'
E	6,200/20' 4"	N	850/ 2' 9"

	mm/ft in
Р	2,185/ 7' 2"
Q	875/ 2'10"
S	4,900/16'
U	8,255/27'
V	13,610/44' 8"
W	7,800/25' 7"

	mm/ft in
X	17,800/58'4"
X2	17,900/58'9"
Z	10,250/33'8"
OEL (Operator's eye level)	6,350/20'9"

The R 9250 G6 equipped with an internal combustion engine is no longer available for sale.



	mm/ft in		mm/ft in
Α	5,500/18'	F	3,000/ 9'10"
Al	8,145/26' 9"	Н	4,930/16' 2"
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E	6,200/20' 4"	N	850/ 2' 9"

	mm/ftin
P	2,185/ 7' 2"
Q	875/ 2'10"
S	4,900/16'
U	8,255/27'
V	15,190/49'10"
W	6,200/20' 4"

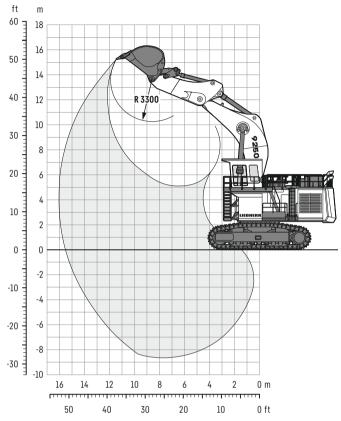
	mm/ft in
Χ	19,600/64'3"
X2	19,700/64'8"
Z	10,250/33'8"
OEL (Operator's eye level)	6,350/20'9"

The R 9250 G6 equipped with an internal combustion engine is no longer available for sale.

 $According \ to \ ISO\ 9248, measurements\ of\ general\ machinery\ dimensions, performances\ and\ capacities\ may\ vary\ within\ tolerances\ given\ by\ this\ norm.$

Backhoe attachment

with mono boom 9.00 m / 29'6"



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Digging envelope

Stick length	m ft in	4.00 13'1"
Max. digging depth	m ft in	8.70 28'6"
Max. reach at ground level	m ft in	15.50 50'10"
Max. dumping height	m ft in	10.30 33'9"
Max. teeth height	m ft in	15.20 49'10"

Forces

Max. digging force (ISO 6015)	kN lbf	800 179,847
Max. breakout force (ISO 6015)	kN lbf	870 195,584

Machine shown without option with a bucket for average material abrasiveness and $1.8\,t/m^3$ (3,034 lb/yd³) density.

The characteristics of the material to be extracted and additionnal options can change the bucket volume, its shape, its radius and therefore may also change the work area reachable by the bucket.

Operating weight and ground pressure

bucket 15.70 m ³ / 20.54 yd ³ .	sic machine with b	ackhoe attachment and backhoe
Pad width	mm ft in	850 2'9"
Weight	kg lb	250,000 551,200
Ground pressure*	kg/cm² psi	2.09 29.63

^{*} according to ISO 16754

Backhoe buckets

Duomino Duomoto								
For materials class according to VOB, Section C, DIN 18300		<5	<5	5-6	5-6	5-6	7-8	7-8
Typical operation according to VOB, Section C, DIN 18300		GP	GP	HD	HD	HD	XHD	XHD
Capacity ISO 7451	m³	18.00	17.00	16.40	15.70	14.20	14.90	13.00
	yd³	23.5	22.2	21.5	20.5	18.6	19.5	17.0
Suitable for material up to a specific weight of	t/m³	1.6	1.7	1.7	1.8	2.0	1.8	2.1
	lb/yd³	2,698	2,867	2,867	3,035	3,373	3,035	3,541
Cutting width	mm	3,550	3,500	3,300	3,120	3,100	3,100	2,800
	ft in	11'7"	11'5"	10'9"	10'2"	10'2"	10'2"	9'2"
Weight	kg	14,100	14,000	15,100	14,800	14,500	16,200	15,800
	lb	31.085	30.865	33,290	32,628	31.967	37.715	34.833

GP: General purpose bucket with Liebherr Z12 teeth

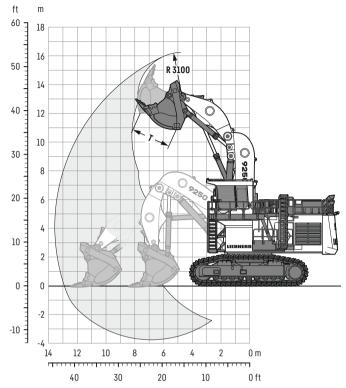
According to ISO 9248, measurements of general machinery dimensions, performances and capacities may vary within tolerances given by this norm.

HD: Heavy-duty bucket with Liebherr Z12 teeth

XHD: Heavy-duty rock bucket with Liebherr Z14 teeth

Face shovel attachment

with shovel boom 6.37 m / 20'9"



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Digging envelope

Stick length	m ft in	4.20 13'9"
Max. reach at ground level	m ft in	13.00 42'7"
Max. dumping height	m ft in	11.00 36'
Max. crowd length	m ft in	4.00 13'1"
Bucket opening width T	m ft in	2.70 8'10"

Forces

Max. crowd force at ground level (ISO 6015)	kN lbf	1,050 236,049
Max. crowd force (ISO 6015)	kN lbf	1,220 274,266
Max. breakout force (ISO 6015)	kN lbf	940 211,320

Machine shown without option with a bucket for average material abrasiveness and 1.8 t/m³ (3.034 lb/yd³) density

The characteristics of the material to be extracted and additionnal options can change the bucket volume, its shape, its radius and therefore may also change the work area reachable by the bucket.

Operating weight and ground pressure

The operating weight includes the basic machine with shovel attachment and bucket $15.00m^3/19.6yd^3$.				
Pad width	mm ft in	850 2'9"		
Weight	kg lb	253,500 558,900		
Ground pressure*	kg/cm² psi	2.12 30.05		

^{*} according to ISO 16754

Face shovel buckets

For materials class according to VOB, Section C, DIN 18300		<5	5-6	5-6	7-8	7-8
Typical operation according to VOB, Section C, DIN 18300		GP	HD	HD	XHD	XHD
Capacity ISO 7451	m³	17.00	13.00	15.00	11.00	13.00
	yd³	22.2	17.0	19.6	14.4	17.0
Suitable for material up to a specific weight of	t/m³	1.6	2.1	1.8	2.3	1.8
	lb/yd³	2,698	3,541	3,035	3,879	3,035
Cutting width	mm	3,700	3,700	3,700	3,700	3,700
	ft in	12'1"	12'1"	12'1"	12'1"	12'1"
Weight	kg	27,000	27,000	27,000	28,000	29,000
	lb	59,525	59,525	59,525	61,729	63,934
Wear kit level		1	Ш	П	III	III

GP: General purpose bucket with Liebherr Z12 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 pre-blasted 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.

According to ISO 9248, measurements of general machinery dimensions, performances and capacities may vary within tolerances given by this norm.

HD: Heavy-duty bucket with Liebherr Z14 teeth

XHD: Heavy-duty rock bucket with Liebherr Z14 teeth

Optional equipment

Undercarriage

Full length chain guide

HD travel gear seal for muddy applications

Undercarriage bottom cover

Rock protection for idler wheel

Travel motor guard with access hatch

Uppercarriage

Swing ring scrapers

Slewing ring with 90° installation arrangement

Hydraulic system

Oil cooler inlet screens

Suction valve position monitoring

Cab

4-point seat belt

Additional back and side wipers

Double A/C system

Front protective grid

Attachment

Piston rod guard for bucket cylinder (BH)

Piston rod guard for stick cylinder (BH)

Piston rod guard for hoist cylinder (BH)

Specific solutions

Arctic package (different stages available)

Safety

Automatic fire suppression system

General

Maritime transport packaging

E-drive

Automatic cable reel



Quality commitment

- Liebherr-Mining Equipment Colmar, France, ISO 9001 certified
- Compliance of materials tested in laboratory
- Quality control during all stages of production
- IEC certified

Subject to technical modifications. All comparisons and claims of performance are made with respect to the prior Liebherr model unless specifically stated.

Liebherr-Mining Equipment Colmar SAS

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