Robex Equipped with EU Stage IIIB Engine

125LCR-9A

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES

*Photo may include optional equipment.

HYUNDAI

Specifications R125LCR-9A

ENGINE

MODEL		PERKINS 1204E
Type		Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged, charged air cooled and low emission
Rated flywheel horse power		
SAE	J1995 (gross)	100 HP (74.6 kW) / 1,950 rpm
	J1349 (net)	92 HP (68.4 kW) / 1,950 rpm
DIN	6271/1 (gross)	101 PS (74.6 kW) / 1,950 rpm
	6271/1 (net)	93 PS (68.4 kW) / 1,950 rpm
Max. torque		45.9 kgf.m (322 lbf.ft)/ 1,400 rpm
Bore x stroke		105 x 127 mm (4.1″ x 5.0″)
Piston displacement		4,400 cc (268.5 in^3)
Batteries		2 x 12 V x 100 Ah
Starting motor		24 V - 4.5 kW
Alternator		24 V - 85 A

* This engine meets the EPA (Tier 4 interim) / EU (Stage III-B) Emission regulation.

HYDRAULIC SYSTEM

MAIN PUMP		
Type		Variable displacement tandem-axis piston pumps
Max. flow		2 x 135 ℓ/min (32.6 US gpm / 27.2 UK gpm)
Sub-pump for pilot circuit		Gear pump
Cross-sensing and fuel saving pump system		
HYDRAULIC MOTORS		
Travel		Two-speed axial piston motor with brake valve and parking brake
Swing		Axial piston motor with automatic brake
RELIEF VALVE SETTING		
Implement circuits		350 kgf/cm^2 (4,980 psi)
Travel		350 kgf/cm^2 (4,980 psi)
Power boost (boom, arm, bucket)		380 kgf/cm^2 (5,410 psi)
Swing circuit		285 kgf/cm^2 (4,050 psi)
Pilot circuit		40 kgf/cm^2 (570 psi)
Service valve		Installed
HYDRAULIC CYLINDERS		
No. of cylinder-bore x stroke		Boom: 2-105 x 1,105 mm (4.1″ x 43.5″)
		Arm: 1-115 x 1,138 mm (4.5″ x 44.8″)
		Bucket: 1-100 x 840 mm (3.9″ x 33.1″)
		Blade: 2-100 x 250 mm (3.9″ x 9.8″)
	2PC-boom	1st: 2-105 x 995 mm (4.1″ x 39.2″)
		2nd: 1-145 x 613 mm (5.7″ x 24.1″)

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	10,300 kgf (22,710 lbf)
Max. travel speed (high) / (low)	6.1 km/hr (3.8 mph) / 3.6 km/hr (2.2 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm (RH): Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

SWING SYSTEM

Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	12.6 rpm

COOLANT & LUBRICANT CAPACITY

	liter	US gal	UK gal
Fuel tank	210	61.3	51.0
Engine coolant	14.5	2.8	2.3
Engine oil	10.5	2.8	2.3
Swing device-gear oil	3.4	0.9	0.7
Final drive (each)-gear oil	2.5	0.7	0.5
Hydraulic system (including tank)	188	49.7	41.4
Hydraulic tank	79	20.9	17.4

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	43 EA
No. of carrier rollers on each side	1 EA
No. of track rollers on each side	6 EA
No. of rail guards on each side	1 EA

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 4,300 mm (14′ 1″) boom, 2,260 mm (7′ 5″) arm, SAE heaped 0.40 m^3 (0.52 yd^3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

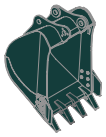
MAJOR COMPONENT WEIGHT	
Upperstructure	6,950 kg (15,320 lb)
4.3 m (14′ 1″) mono boom (with arm cylinder)	950 kg (2,090 lb)

OPERATING WEIGHT				
Shoes			Operating weight	Ground pressure
Type	Width mm (in)		kg (lb)	kgf/cm^2 (psi)
Triple grouser	500 (20″)	R125LCR-9A	12,500 (27,560)	0.42 (5.91)
		R125LCR-9A (Dozer type)	13,200 (29,100)	0.44 (6.24)
	600 (24″)	R125LCR-9A	12,650 (27,890)	0.35 (4.98)
		R125LCR-9A (Dozer type)	13,350 (29,430)	0.37 (5.26)
	700 (28″)	R125LCR-9A	12,800 (28,220)	0.30 (4.27)
		R125LCR-9A (Dozer type)	13,500 (29,760)	0.32 (4.55)

BUCKETS R125LCR-9A

All buckets are welded with high-strength steel.


0.30 (0.39)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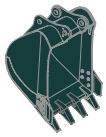
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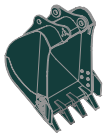
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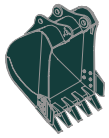
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SAE heaped m³ (yd³)

Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft.in)		
					4,300 (14′ 1″) Boom		
SAE heaped	CECE heaped	Without side cutters	With side cutters		1,960 (6′ 5″) Arm	2,260 (7′ 5″) Arm	2,810 (9′ 3″) Arm
0.30 (0.39)	0.27 (0.35)	610 (24.0)	720 (28.3)	360 (790)	●	●	●
0.40 (0.52)	0.44 (0.58)	760 (29.9)	870 (34.3)	410 (900)	●	●	●
0.45 (0.59)	0.40 (0.52)	830 (32.7)	940 (37.0)	430 (950)	●	●	■
0.50 (0.65)	0.45 (0.59)	900 (35.4)	1,010 (39.8)	450 (990)	●	■	▲
0.59 (0.77)	0.52 (0.68)	1,020 (40.2)	1,130 (44.5)	490 (1,080)	■	▲	–

● : Applicable for materials with density of 2,000 kg/m³ (3,370 lb/yd³) or less
■ : Applicable for materials with density of 1,600 kg/m³ (2,700 lb/yd³) or less
▲ : Applicable for materials with density of 1,100 kg/m³ (1,850 lb/yd³) or less

ATTACHMENT R125LCR-9A

Booms and arms are welded, a low-stress, full-box section design.
4.3 m (14′ 1″) boom and 1.96 m (6′ 5″); 2.26 m (7′ 5″) & 2.81 m (9′ 3″) arms are available.

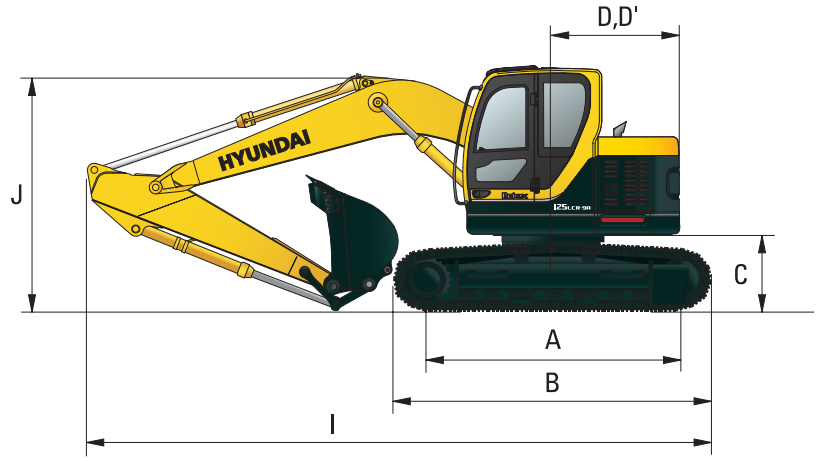
DIGGING FORCE R125LCR-9A

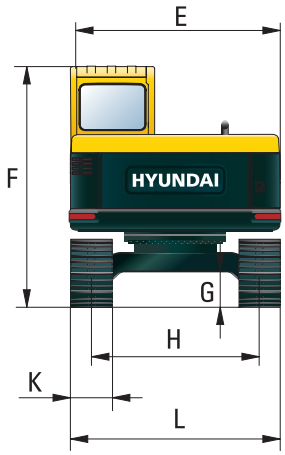
Boom	Length	mm (ft-in)	4,300 (14′ 1″)			Remarks:
	Weight	kg (lb)	950 (2,090)			
Arm	Length	mm (ft-in)	1,960 (6′ 5″)	2,260 (7′ 5″)	2,810 (9′ 3″)	
	Weight	kg (lb)	320 (710)	340 (750)	400 (880)	
Bucket digging force	SAE	kN	78.5 [85.6]	78.5 [85.6]	78.5 [85.6]	[ ]: Power Boost
		kgf	8,000 [8,730]	8,000 [8,730]	8,000 [8,730]	
		lbf	17,640 [19,240]	17,640 [19,240]	17,640 [19,240]	
	ISO	kN	90.2 [98.4]	90.2 [98.4]	90.2 [98.4]	
		kgf	9,200 [10,040]	9,200 [10,040]	9,200 [10,040]	
		lbf	20,280 [22,120]	20,280 [22,120]	20,280 [22,120]	
Arm crowd force	SAE	kN	60.2 [65.7]	55.7 [60.8]	48.1 [52.4]	
		kgf	6,140 [6,700]	5,680 [6,200]	4,900 [5,350]	
		lbf	13,540 [14,770]	12,520 [13,660]	10,800 [11,780]	
	ISO	kN	62.9 [68.6]	58.1 [63.3]	49.7 [54.2]	
		kgf	6,410 [6,990]	5,920 [6,460]	5,070 [5,530]	
		lbf	14,130 [15,410]	13,050 [14,240]	11,180 [12,200]	

Note: Boom weight includes arm cylinder, piping and pin
Arm weight includes bucket cylinder, linkage and pin

Dimensions & Working Ranges

DIMENSIONS R125LCR-9A





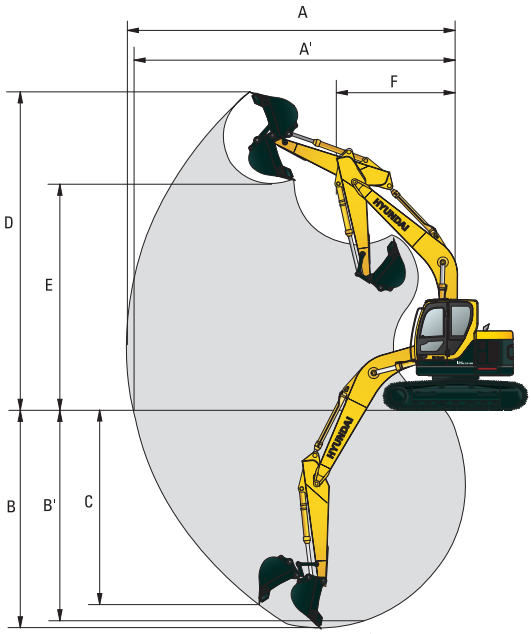
mm (ft · in)

A	Tumbler distance	2,780 (9′ 2″)
B	Overall length of crawler	3,680 (12′ 1″)
C	Ground clearance of counterweight	890 (2′ 10″)
D	Tail swing radius	1,500 (4′ 10″)
D′	Rear-end length	1,500 (4′ 10″)
E	Overall width of upperstructure	2,490 (8′ 2″)
F	Overall height of cab	2,900 (9′ 6″)
G	Min. ground clearance	440 (1′ 5″)
H	Track gauge	1,990 (6′ 6″)

mm (ft · in)

	Boom length	4,300 (14′ 1″)		
	Arm length	1,960 (6′ 5″)	2,260 (7′ 5″)	2,810 (9′ 3″)
I	Overall length	6,840 (22′ 5″)	6,860 (22′ 6″)	6,800 (22′ 3″)
J	Overall height of boom	2,530 (8′ 3″)	2,740 (9′ 0″)	3,010 (10′ 1″)
K	Track shoe width	500 (20″)	600 (24″)	700 (28″)
L	Overall width	2,500 (8′ 2″)	2,600 (8′ 6″)	2,700 (8′ 10″)

WORKING RANGES R125LCR-9A

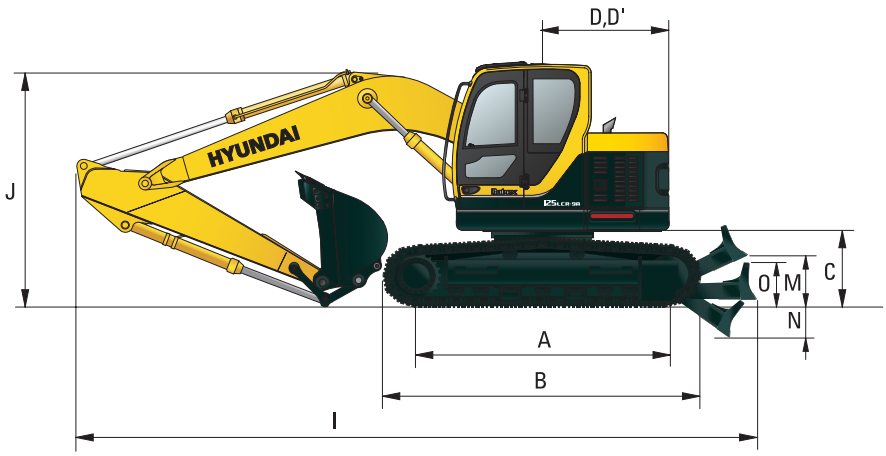


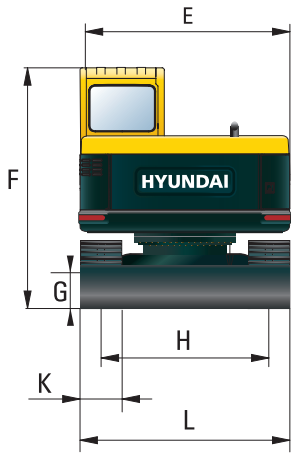
mm (ft · in)

	Boom length	4,300 (14′ 1″)		
	Arm length	1,960 (6′ 5″)	2,260 (7′ 5″)	2,810 (9′ 3″)
A	Max. digging reach	7,420 (24′ 4″)	7,700 (25′ 3″)	8,230 (27′ 0″)
A′	Max. digging reach on ground	7,270 (23′ 10″)	7,560 (24′ 10″)	8,090 (26′ 6″)
B	Max. digging depth	4,760 (15′ 7″)	5,060 (16′ 7″)	5,610 (14′ 0″)
B′	Max. digging depth (8′ level)	4,500 (14′ 9″)	4,830 (15′ 10″)	5,420 (17′ 8″)
C	Max. vertical wall digging depth	4,140 (13′ 7″)	4,410 (14′ 6″)	4,970 (16′ 3″)
D	Max. digging height	7,910 (25′ 11″)	8,100 (26′ 7″)	8,480 (27′ 9″)
E	Max. dumping height	5,550 (18′ 3″)	5,740 (18′ 10″)	6,120 (20′ 1″)
F	Min. front swing radius	2,280 (7′ 6″)	2,340 (7′ 8″)	2,460 (8′ 1″)

Dimensions & Working Ranges

DIMENSIONS R125LCR-9A (DOZER TYPE)





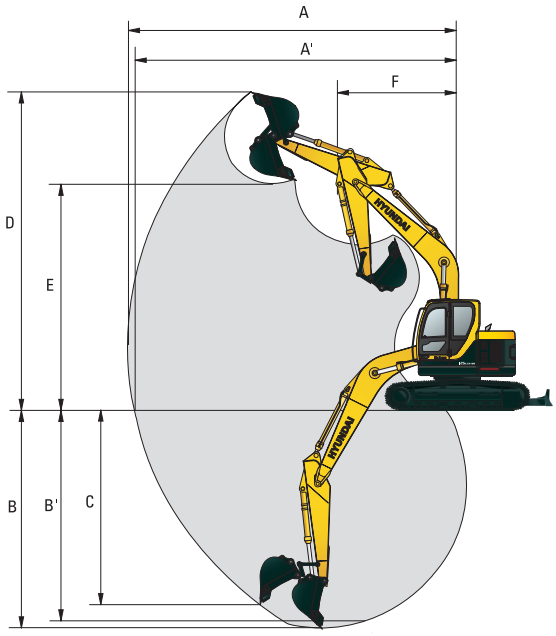
mm (ft · in)

A	Tumbler distance	2,780 (9′ 2″)
B	Overall length of crawler	3,678 (12′ 1″)
C	Ground clearance of counterweight	890 (2′ 10″)
D	Tail swing radius	1,500 (4′ 10″)
D′	Rear-end length	1,500 (4′ 10″)
E	Overall width of upperstructure	2,490 (8′ 2″)
F	Overall height of cab	2,900 (9′ 6″)
G	Min. ground clearance	440 (1′ 5″)
H	Track gauge	1,990 (6′ 6″)
M	Max. Lifting height of dozer blade	540 (1′ 8″)
N	Max. depth of dozer blade	530 (1′ 8″)
O	Height of dozer blade	580 (1′ 9″)

mm (ft · in)

	Boom length	4,300 (14′ 1″)		
	Arm length	1,960 (6′ 5″)	2,260 (7′ 5″)	2,810 (9′ 3″)
I	Overall length	7,560 (24′ 8″)	7,580 (24′ 9″)	7,520 (24′ 7″)
J	Overall height of boom	2,530 (8′ 3″)	2,740 (9′ 0″)	3,070 (10′ 1″)
K	Track shoe width	500 (20″)	600 (24″)	700 (28″)
L	Overall width	2,500 (8′ 2″)	2,600 (8′ 6″)	2,700 (8′ 10″)

WORKING RANGES R125LCR-9A (DOZER TYPE)



mm (ft · in)

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A′	Max. digging reach on ground	7,270 (23′ 10″)	7,560 (24′ 10″)	8,090 (26′ 6″)
B	Max. digging depth	4,760 (15′ 7″)	5,060 (16′ 7″)	5,610 (18′ 4″)
B′	Max. digging depth (8′ level)	4,500 (14′ 9″)	4,830 (15′ 10″)	5,420 (17′ 8″)
C	Max. vertical wall digging depth	4,140 (13′ 7″)	4,410 (14′ 6″)	4,970 (16′ 3″)
D	Max. digging height	7,910 (25′ 11″)	8,100 (26′ 7″)	8,480 (27′ 9″)
E	Max. dumping height	5,550 (18′ 3″)	5,740 (18′ 10″)	6,120 (20′ 1″)
F	Min. front swing radius	2,280 (7′ 6″)	2,340 (7′ 8″)	2,460 (8′ 1″)

Notes

STANDARD EQUIPMENT R125LCR-9A

ISO Standard cabin
- All-weather steel cab with 360° visibility
- Safety glass windows
- Rise-up type windshield wiper
- Sliding fold-in front window
- Sliding side window (LH)
- One key fits all lockable doors
- Hot & cool box
- Storage compartment & Ashtray
- Radio / MP3 Player with remote control and USB-input
- Handsfree mobile phone system with USB-charging device
- Transparent cabin roof-cover
- 12 volt power outlet (24V DC to 12V DC converter)
- Sun visor
- Rain guard - front window

Computer aided power optimization (CAPO) system
- 3-power modes, 2-work modes, User mode
- Auto & one-touch deceleration system
- Auto warm-up system
- Overheat prevention system

Automatic temperature control
- Air conditioner & heater
- Defroster

Self-diagnostics system

Starting Aid (air grid heater) for cold weather

Centralized monitoring
- LCD display
- Engine speed or Trip meter
- Clock
- Gauges
- Fuel level gauge
- Engine coolant temperature gauge
- Hyd. oil temperature gauge
- Warning lamps
- Engine warning
- Overload
- Communication error
- Low battery
- Air filter clogging
- Indicators
- Max power
- Fuel warmer
- Auto deceleration
- Rearview camera

Two outside rearview mirrors

Mechanical suspension seat with heater

Adjustable joysticks

Four front working lights

Electric horn

Batteries (2 x 12V x 72 Ah)

Battery master switch

Removable clean-out screen for coolers

Automatic swing brake

Removable reservoir tank

Fuel pre-filter with fuel warmer

Boom holding system

Arm holding system

Triple grousers shoe (500 mm; 20")

Track rail guard

Accumulator for lowering work equipment

Electric transducer

Lower frame under cover

Fuel filler pump (35 ℓ/min)

Safety lock valve for boom cylinder with overload warning device

Double-acting piping kit (clamshell, etc.)

Travel alarm

Quick coupler piping

Boom
- 4.3 m; 14' 1"

Arm
- 2.26 m; 7' 5"

Cabin ROPS (ISO 12117-2)
- ROPS (Roll Over Protective Structure)

Hi-mate (Remote Management System)

OPTIONAL EQUIPMENT R125LCR-9A

Beacon lamp

Safety lock valve for arm cylinder

Single-acting piping kit (breaker, etc.)

Arms
- 1.96 m; 6' 5"
- 2.81 m; 9' 3"

Cabin FOPS/FOG (ISO/DIS 10262 Level II)
- FOPS (Falling Object Protective Structure)
- FOG (Falling Object Guard)

Cabin lights

Track shoes
- Triple grousers shoe (600 mm; 24")
- Triple grousers shoe (700 mm; 28")
- Rubber pad (500 mm; 20")
- Track pad (500 mm; 20")

Additional lower frame - reinforced under cover

Dozer blade

Tool kit

Seat
- Air suspension seat with heater

* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.
* The photos may include attachments and optional equipment that are not available in your area.
* Materials and specifications are subject to change without advance notice.
* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

HYUNDAI
HEAVY INDUSTRIES EUROPE
CONSTRUCTION EQUIPMENT

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