



We build a better future

Robex
235LCR-9

Equipped with Tier 3 Engine



*Photo may include optional equipment.



Specifications

ENGINE

MODEL		CUMMINS QSB6.7	
Type		Water cooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, turbocharged with air cooler.	
Rated flywheel horse power	SAE	J1995 (gross)	151 HP (113 kW) / 1,900 rpm
		J1349 (net)	143 HP (107 kW) / 1,900 rpm
	DIN	6271/1 (gross)	153 PS (113 kW) / 1,900 rpm
		6271/1 (net)	145 PS (107 kW) / 1,900 rpm
Max. torque		63.6 kgf.m (460 lbf.ft) / 1,500 rpm	
Bore x stroke		107 x 124 mm (4.2" x 4.9")	
Piston displacement		6,700 cc (409 in ³)	
Batteries		2 X 12V X 100AH	
Starting motor		24 V - 4.5 kW	
Alternator		24 V - 70 Amp	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. flow	2 X 222 l/min (48.8 UK gpm)
Pilot pump	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS

Travel	Two speed axial piston motors 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 - 120 x 1,290 mm (4.7" x 50.8")
	Arm : 1 - 140 x 1,510 mm (5.5" x 59.4")
	Bucket : 1 - 120 x 1,055 mm (4.7" x 41.5")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	21,100 kgf (46,517 lbf)
Max. travel speed (high / low)	5.3 km/hr (3.3 mph) / 3.4 km/hr (2.1 mph)
Grade-ability	30° (58 %)
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	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.7 rpm

COOLANT & LUBRICANT CAPACITY

	liter	UK gal
Refilling		
Fuel tank	320	70.4
Engine coolant	35	7.7
Engine oil	24	5.3
Swing device	5	1.1
Travel motor (each)	5.8	1
Hydraulic system (including tank)	275	60.5
Hydraulic tank	160	35.2

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 track plates on each side	49 EA
No. of upper rollers on each side	2 EA
No. of lower rollers on each side	9 EA
No. of track guards on each side	2 EA

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,680 mm (18' 8") boom, 2,920 mm (9' 7") arm, SAE heaped 0.92 m³ (1.20 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipment.

MAJOR COMPONENT WEIGHT

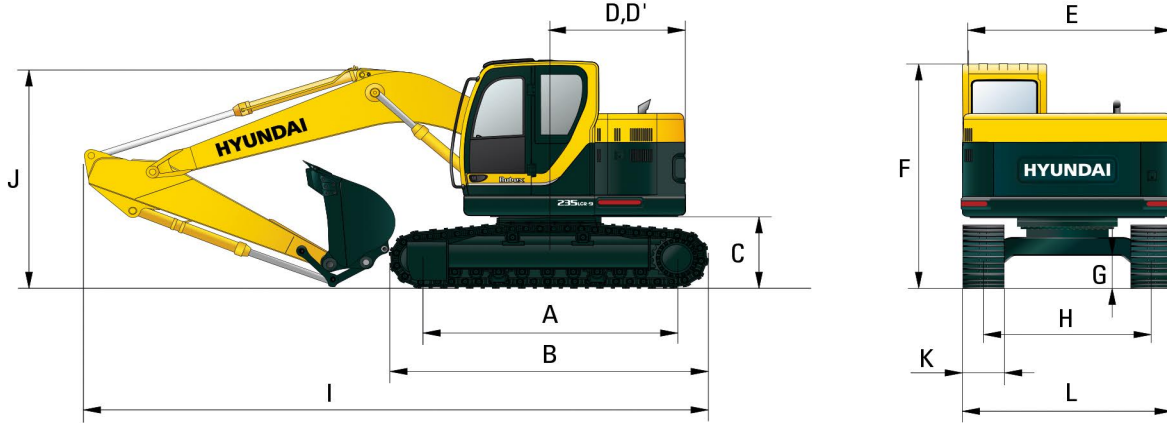
Upperstructure	
Boom (with arm cylinder)	1,950 kg (4,300 lb)
Arm (with bucket cylinder)	1,095 kg (2,410 lb)

OPERATING WEIGHT

Shoes (Triple grouser)	Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm ² (psi)
R235LCR-9	600 (20")	23,800 (52,470)	0.51 (7.25)
R235LCR-9 (dozer type)		25,300 (55,777)	0.54 (7.71)
R235LCR-9	700 (24")	24,150 (53,240)	0.44 (6.26)
R235LCR-9 (dozer type)		25,650 (56,549)	0.47 (6.65)
R235LCR-9	800 (28")	24,415 (53,830)	0.39 (5.55)
R235LCR-9 (dozer type)		25,915 (57,133)	0.41 (5.89)
R235LCR-9	900 (32")	24,680 (54,410)	0.35 (4.98)
R235LCR-9 (dozer type)		26,180 (57,717)	0.37 (5.28)

Dimensions & Working Ranges

DIMENSIONS R235LCR-9

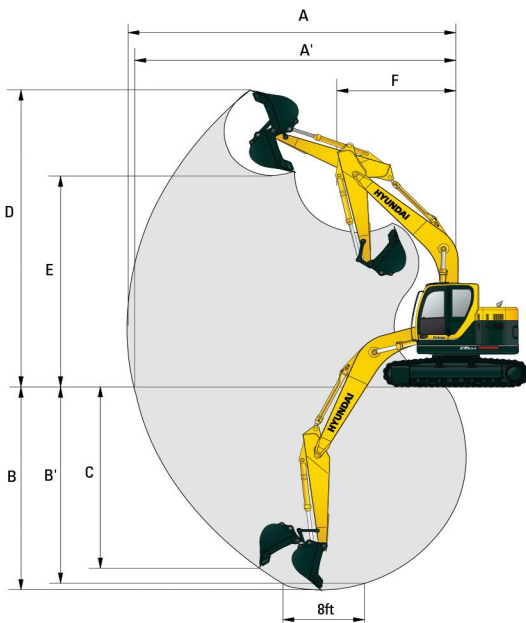


mm (ft · in)

A Tumbler distance	3650 (11' 12")	Boom length	5680 (18' 8")
B Undercarriage length	4440 (14' 7")	Arm length	2400 (7' 10")
C Ground clearance of counterweight	1060 (3' 6")	I Overall length	8950 (29' 4")
D Tail swing radius	1680 (5' 6")	J Overall height of boom	3100 (10' 2")
D' Rear-end length	1680 (5' 6")	K Track shoe width	700 (28")
E Overall width of upperstructure	2980 (9' 9")	L Overall width	3090 (10' 2")
F Overall height of cabin	2950 (9' 8")		
G Min. ground clearance	480 (1' 7")		
H Track gauge	2390 (7' 10")		

WORKING RANGES R235LCR-9

mm (ft · in)



Boom length	5680 (18' 8")
Arm length	2400 (7' 10")
A Max. digging reach	9430 (30' 11")
A' Max. digging reach on ground	9260 (30' 5")
B Max. digging depth	6180 (20' 3")
B' Max. digging depth (8' level)	5980 (19' 7")
C Max. vertical wall digging depth	5710 (18' 9")
D Max. digging height	10420 (34' 2")
E Max. dumping height	7510 (24' 8")
F Min. front swing radius	2550 (8' 4")



Lifting Capacities

R235LCR-9

Rating over-front Rating over-side or 360 degrees

Boom : 5.68 m (18' 8") / Arm : 2.4 m (7' 10") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / Shoe : 600 mm (24") triple grouser

Load point height m (ft)	Load radius										At max. reach				
	1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity	Reach			
													m (ft)		
9.0 m (30 ft)	kg												*4110	*4110	5.25
	lb												*9060	*9060	(17.2)
7.5 m (25 ft)	kg					*4280	*4280						*3820	3670	7.07
	lb					*9440	*9440						*8420	8090	(23.2)
6.0 m (20 ft)	kg					*4500	*4500	*4220	*4220				*3760	2780	8.12
	lb					*9920	*9920	*9300	*9300				*8290	6130	(26.6)
4.5 m (15 ft)	kg		*7270	*7270	*5450	*5450	*4600	*4600	*3950	3080			*3770	2350	8.74
	lb		*16030	*16030	*12020	*12020	*10140	*10140	*8710	6790			*8310	5180	(28.7)
3.0 m (10 ft)	kg		*11380	*11380	*6850	*6850	*5230	4350	*4420	2980			*3820	2150	9.04
	lb		*25090	*25090	*15100	*15100	*11530	9590	*9740	6570			*8420	4740	(29.7)
1.5 m (5 ft)	kg				*8100	6310	*5840	4080	*4690	2850			3850	2090	9.03
	lb				*17860	13910	*12870	8990	*10340	6280			8490	4610	(29.6)
Ground Line	kg		*9120	*9120	*8640	6000	*6210	3890	*4820	2750			*3930	2190	8.74
	lb		*20110	*20110	*19050	13230	*13690	8580	*10630	6060			*8660	4830	(28.7)
-1.5 m (-5 ft)	kg	*9720	*9720	*12220	11860	*8450	5920	*6160	3810				*3900	2490	8.12
	lb	*21430	*21430	*26940	26150	*18630	13050	*13580	8400				*8600	5490	(26.6)
-3.0 m (-10 ft)	kg	*14180	*14180	*10550	*10550	*7550	5990	*5480	3850				*3650	3190	7.06
	lb	*31260	*31260	*23260	*23260	*16640	13210	*12080	8490				*8050	7030	(23.2)
-4.5 m (-15 ft)	kg			*7670	*7670	*5530	*5530								
	lb			*16910	*16910	*12190	*12190								

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.



STANDARD EQUIPMENT

ISO Standard cabin

- All-weather steel cab with all-around visibility
- Safety glass windows
- Raise-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
- Transparent cabin roof-cover
- Radio / USB player
- Handsfree mobile phone system with USB-charging device
- Sun visor

12 volt power outlet (24V DC to 12V DC converter)

Computer aided power optimization system (CAPO)

- 3-power modes, 3-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

LCD-display

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

Door and cab locks, one key fits all

Two outside rearview mirrors

Mechanical suspension seat with heater

Adjustable joysticks

Console box tilting system

Four frontal working lights

Electric horn

Batteries (2 x 12V x 100 AH)

Battery master switch

Removable clean-out screen for oil cooler

Automatic swing brake

Removable reservoir tank

Fuel pre-filter with fuel warmer

Boom holding system

Arm holding system

Track shoes (600 mm; 24")

Track rail guard

Viscous fan clutch

Accumulator for lowering work equipment

Lower frame under cover (normal)

* 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 N.V.

VOSSENDAAL 11, 2440 GEEL, BELGIUM TEL: (32) 14-56-2200 FAX: (32) 14-59-3405