



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 <sup>3</sup> )	
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 <sup>2</sup> (4,980 psi)
Travel	350 kgf/cm <sup>2</sup> (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm <sup>2</sup> (5,410 psi)
Swing circuit	285 kgf/cm <sup>2</sup> (4,050 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (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 fatiguelless 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 m<sup>3</sup> (1.20 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipment.

## MAJOR COMPONENT WEIGHT

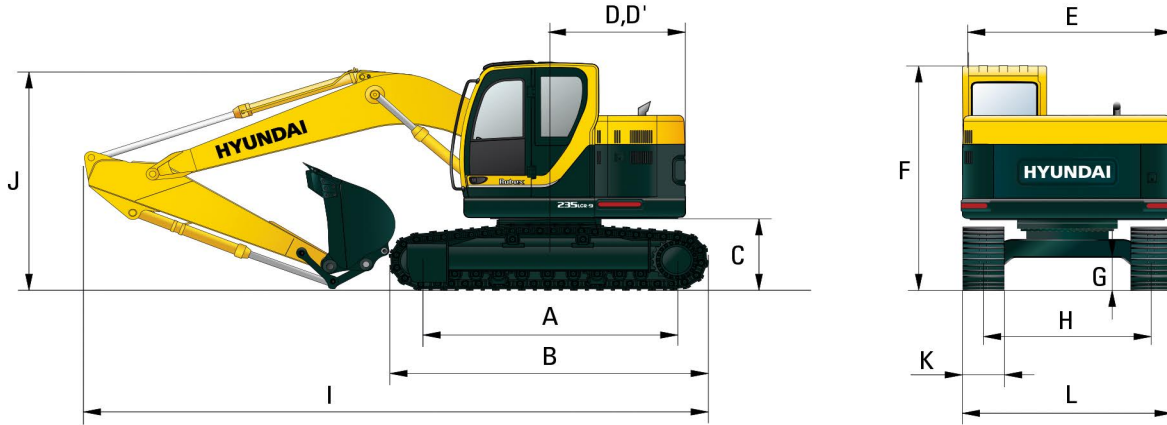
Upperstructure	
Boom (with arm cylinder)	1,950 kg (4,300 lb)
Arm (with bucket cylinder)	1,095 kg (2,410 lb)

## OPERATING WEIGHT

Shoes (Triple grouser)	Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm <sup>2</sup> (psi)
Type			
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

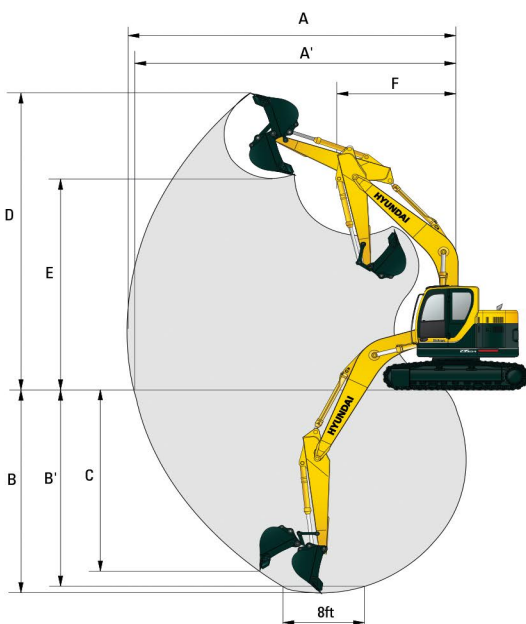


mm (ft · in)

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 m<sup>3</sup> (1.05 yd<sup>3</sup>) 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



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