

Doosan

290LC-7A

Long Reach Excavator

CUMMINS QSB6.7 Engine (Tier-III) 227HP(169kW) / 1,900rpm	
Operating Weight	32,860 kg (72,440 lb)
Bucket Capacities, SAE	0.22 ~ 0.52m ³ (0.29 ~ 0.68yd ³)
Maximum	
Reach on ground level	18,400 mm (60' 4")
Digging depth	14,820 mm (48' 7")
Travel Speed	3.1 to 5.2 km / hr (1.9 to 3.2 mph)

Long Reach Front Includes : Boom, Arm, Linkage, Bucket, Cylinders (boom, arm, and bucket)Hydraulic lines, and Additional counterweight for stability.

Designed especially for river maintenance work, the long-range front attachments give all the advantages of a hydraulic excavator plus an exceptional long reach ranging from 18m(60ft).

Relief valve setting

Boom	330 kgf/cm ² (4,690 psi)
Arm	250 kgf/cm ² (3,270 psi)
Bucket	270 kgf/cm ² (3,840 psi)
Travel	330 kgf/cm ² (4,690 psi)
Swing circuit	265 kgf/cm ² (3,700 psi)
Pilot circuit	35 kgf/cm ² (500 psi)
Service valve	Installed

Hydraulic cylinders

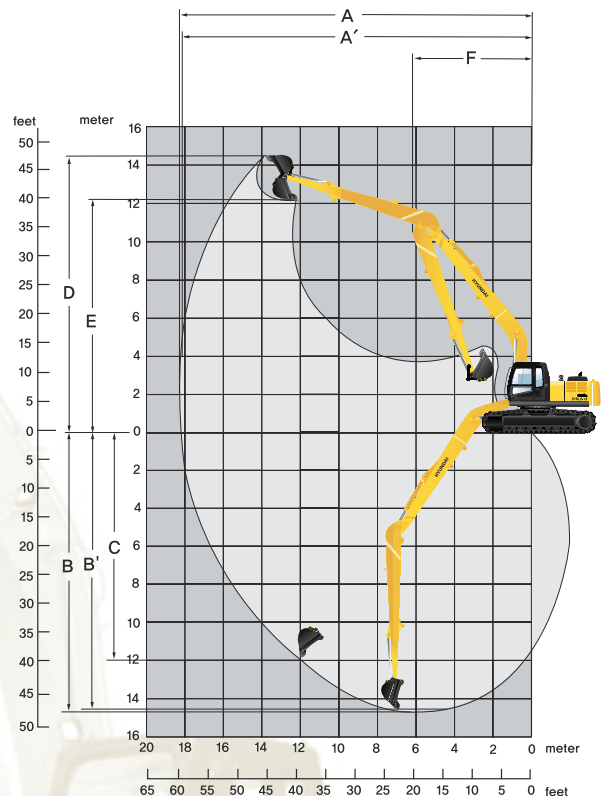
No. of cylinder - bore × stroke	
Boom	2- 140 × 1,465mm (5.5" × 57.7")
Arm	1- 150 × 1,765mm (5.9" × 69.5")
Bucket	1- 100 × 870mm (3.9" × 34.3")

Digging force

Bucket digging force	(SAE) 7,100 kgf [69.6kN] (15,650 lbf)
	(ISO) 8,200 kgf [80.4kN] (18,080 lbf)
Arm crowd force	(SAE) 4,420 kgf [43.3kN] (9,740 lbf)
	(ISO) 4,500 kgf [44.1kN] (9,920 lbf)

Working ranges

	Boom length	10,200 mm (33' 6")
	Arm length	7,850 mm (25' 9")
A	Max. digging reach	18,510 mm (60' 9")
A'	Max. digging reach on ground	18,400 mm (60' 4")
B	Max. digging depth	14,820 mm (48' 7")
B'	Max. digging depth (8' level)	14,690 mm (48' 2")
C	Max. vertical wall digging depth	12,020 mm (39' 5")
D	Max. digging height	14,500 mm (47' 7")
E	Max. dumping height	12,190 mm (39' 12")
F	Min. swing radius	6,250 mm (20' 6")



Operating weight (approximate)

Operating weight, including 10200 mm (33' 6") Boom, 7850 mm(25' 9") Arm, SAE heaped 0.52m³ (0.68 yd³) backhoe bucket, and 800 mm (32") triple grouser shoe, additional counterweight lubricant, coolant, and full fuel tank, hyd tank and the standard equipment.

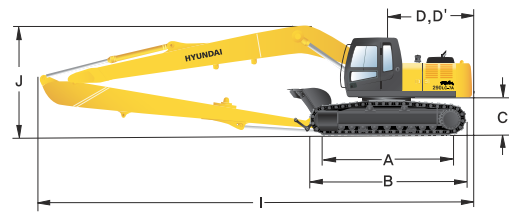
Major component weight

Upperstructure	7,040 kg (15,520 lb)
Counterweight	7,000 kg (15,430 lb)
Attachments	5,350 kg (11,790 lb)

Operating weight	32,860 kg (72,440 lb)
Drawbar pull	27,300 kg (60,186 lb)
Ground pressure	0.47 kgf/cm ² (6.68 psi)

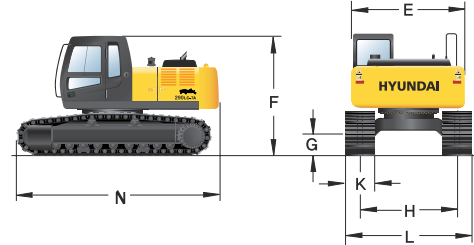
Shipping Dimensions

A	Tumbler distance	4,030 mm (13' 3")
B	Overall length of crawler	4,940 mm (16' 2")
C	Ground clearance of counterweight	1,190 mm (3' 11")
D	Tail swing radius	3,200 mm (10' 6")
D'	Rear-end length	3,120 mm (10' 3")
I	Overall length	14,550 mm (47' 9")
J	Overall height of boom	3,550 mm (11' 8")



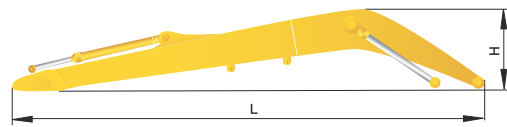
Base Machine

E	Overall width of upperstructure	2,980 mm (9' 9")
F	Overall height of cab	3,010 mm (9' 11")
G	Min. ground clearance	500 mm (1' 8")
H	Track gauge	2,600 mm (8' 6")
K	Track shoe width	800 mm (31.5")
L	Overall width	3,400 mm (11' 2")
N	Overall length	5,590 mm (18' 4")
	Weight	26,540 kg (58,510 lb)



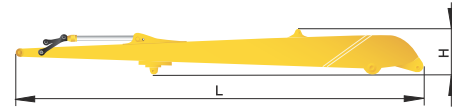
Long Reach Boom

L	Overall length	10,410 mm (34' 2")
H	Overall height	1,675 mm (5' 6")
W	Overall width	900 mm (3' 1")
	Weight	3,320 kg (7,320 lb)



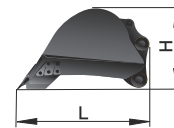
Long Reach Arm

L	Overall length	9,010 mm (29' 7")
H	Overall height	870 mm (2' 10")
W	Overall width	480 mm (1' 7")
	Weight	1,590 kg (3,510 lb)



Bucket

L	Overall length	1,400 mm (4' 7")
H	Overall height	820 mm (2' 8")
W	Overall width	1,035 mm (3' 5")
	Weight	460 kg (1,010 lb)



Lifting capacities

Boom : 10.2 m (33' 6")

Bucket : 0.52m³ SAE heaped

Rating over - front

Arm : 7.85 m (25' 9")

Shoe : 800 mm (32") triple grouser shoe with 7,000kg (15,430 lb) CWT

Rating over - side or 360 degree

Load point height m (ft)		Load radius										At max. reach				
		3.0 m (10.0 ft)		6.0 m (20.0 ft)		9.0 m (30.0 ft)		12.0 m (40.0 ft)		15.0m (50.0 ft)		Capacity	Reach			
														m (ft)		
12.0 m (40.0 ft)	kg lb													* 1630 * 3590	* 1630 * 3590	15.27 (50.1)
9.0 m (30.0 ft)	kg lb									* 1420 * 3130	* 1420 * 3130			* 1690 * 3730	1600 3530	16.89 (55.4)
6.0 m (20.0 ft)	kg lb									* 1830 * 4030	* 1830 * 4030			* 1790 * 3950	1310 2890	17.83 (58.5)
3.0 m (10.0 ft)	kg lb					* 3000 * 6610	* 3000 * 6610	* 2390 * 5270	* 2390 * 5270	* 4590 4030	* 2080 1830	* 1920 1150	* 4230 2540	2170 1140	18.20 (59.7)	
Ground Line	kg lb	* 3780 * 8330	* 3780 * 8330	* 6710 * 14790	* 6710 * 14790	* 4000 * 8820	3900 8600	* 2920 * 6440	2480 5470	* 2380 * 5250	1630 3590	2070 4560	1100 2430	18.04 (59.2)		
- 3.0 m (- 10.0 ft)	kg lb	* 5080 * 11200	* 5080 * 11200	* 7970 * 17570	5900 13010	* 4770 * 10520	3370 7430	* 3370 * 7430	2190 4830	* 2630 * 5800	1480 3260	2170 4780	1140 2510	17.33 (56.9)		
- 6.0 m (- 20.0 ft)	kg lb	* 6810 * 15010	* 6810 * 15010	* 8310 * 18320	5710 12590	* 5150 * 11350	3160 6970	* 3630 * 8000	2050 4520	* 2550 * 5620	1430 3150	2470 5450	1330 2930	15.99 (52.5)		
- 9.0 m (- 30.0 ft)	kg lb	* 8960 * 19750	* 8960 * 19750	* 7890 * 17390	5920 13050	* 5050 * 11130	3210 7080	* 3520 * 7760	2100 4630			* 2800 * 6170	1800 3970	13.83 (45.4)		
- 12.0 m (- 40.0 ft)	kg lb	* 11900 * 26230	* 11900 * 26230	* 6420 * 14150	* 6420 * 14150	* 4120 * 9080	3560 7850									

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



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