

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Model	Cummins QSB6.7
Type	4-cycle turbocharged, charger air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124 mm (4.2" × 4.9")
Piston displacement	6700 cc (409 cu in)
Compression ratio	17.2 : 1
Rated gross horse power (SAE J1995)	195 Hp at 1900 rpm (146 kW at 1900 rpm)
Maximum torque	95.0 kgf · m (687 lbf · ft) at 1400 rpm
Engine oil quantity	24 l (6.3 U.S. gal)
Dry weight	556 kg (1225 lb)
High idling speed	1950+ 50 rpm
Low idling speed	850 ± 100 rpm
Rated fuel consumption	167.4 g/Hp · hr at 1900 rpm
Starting motor	Nippon denso (24V-4.5 kW)
Alternator	Delco Remy 24V-50A
Battery	2 × 12V × 100 Ah

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 117 cc/rev
Maximum pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Rated oil flow	2 × 222 l /min (58.7 U.S. gpm/ 48.8 U.K. gpm)
Rated speed	1900 rpm

[ ] : Power boost

### 3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm <sup>2</sup> (570 psi)
Rated oil flow	28.5 l /min (7.45 U.S. gpm / 6.27 U.K. gpm)

### 4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)]
Overload relief valve pressure	400 kgf/cm <sup>2</sup> (5690 psi)

[ ] : Power boost

### 5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	148.5 cc/rev
Relief pressure	300 kgf/cm <sup>2</sup> (4270 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	70 kgf · m (506 lbf · ft)
Brake release pressure	35 kgf/cm <sup>2</sup> (500 psi)
Reduction gear type	2 - stage planetary

### 6) TRAVEL MOTOR

Item	Specification
Type	Axial piston motor
Relief pressure	350 kgf/cm <sup>2</sup> (4980 psi)
Capacity (max / min)	93.5/161.5 cc/rev
Reduction gear type	Planetary differential
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	8.2 kgf/cm <sup>2</sup> (116 psi)
Braking torque	50 kgf · m (362 lbf · ft)

## 7) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 135 × ∅ 95 × 1345 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 145 × ∅ 105 × 1620 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 130 × ∅ 90 × 1185 mm
	Cushion	Extend only

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

## 8) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R250LC-9	Standard	600 mm (24")	0.51 kgf/cm <sup>2</sup> (7.25 psi)	51	3180 mm (10' 5")
	Option	700 mm (28")	0.44 kgf/cm <sup>2</sup> (6.26 psi)	51	3280 mm (10' 9")
		800 mm (32")	0.39 kgf/cm <sup>2</sup> (5.55 psi)	51	3380 mm (11' 1")
		900 mm (36")	0.35 kgf/cm <sup>2</sup> (4.98 psi)	51	3480 mm (11' 5")
R250NLC-9	Standard	600 mm (24")	0.51 kgf/cm <sup>2</sup> (7.25 psi)	51	2980 mm (9' 9")
R250LC-9 HIGH WALKER	Standard	600 mm (24")	0.53 kgf/cm <sup>2</sup> (7.54 psi)	48	3180 mm (10' 5")
	Option	700 mm (28")	0.46 kgf/cm <sup>2</sup> (6.54 psi)	48	3280 mm (10' 9")
		800 mm (32")	0.41 kgf/cm <sup>2</sup> (5.83 psi)	48	3380 mm (11' 1")
		★700 mm (28")	0.47 kgf/cm <sup>2</sup> (6.68 psi)	48	3280 mm (10' 9")

★: Double grouser

## 9) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R250LC-9 R250NLC-9 R250LC-9 H/WALKER	Standard	1.08 m <sup>3</sup> (1.41 yd <sup>3</sup> )	0.95 m <sup>3</sup> (1.24 yd <sup>3</sup> )	5	1130 mm (44.5")	1250 mm (49.2")
	Option	0.60 m <sup>3</sup> (0.78 yd <sup>3</sup> )	0.55 m <sup>3</sup> (0.72 yd <sup>3</sup> )	3	760 mm (29.9")	880 mm (34.6")
		0.79 m <sup>3</sup> (1.03 yd <sup>3</sup> )	0.70 m <sup>3</sup> (0.92 yd <sup>3</sup> )	3	890 mm (35.0")	1010 mm (39.8")
		1.03 m <sup>3</sup> (1.35 yd <sup>3</sup> )	0.90 m <sup>3</sup> (1.18 yd <sup>3</sup> )	4	1090 mm (42.9")	1210 mm (47.6")
		1.27 m <sup>3</sup> (1.66 yd <sup>3</sup> )	1.10 m <sup>3</sup> (1.44 yd <sup>3</sup> )	5	1290 mm (50.8")	1410 mm (55.5")
		◆1.07 m <sup>3</sup> (1.40 yd <sup>3</sup> )	0.95 m <sup>3</sup> (1.24 yd <sup>3</sup> )	5	1150 mm (45.3")	-
		◆1.15 m <sup>3</sup> (1.50 yd <sup>3</sup> )	1.00 m <sup>3</sup> (1.31 yd <sup>3</sup> )	5	1210 mm (47.6")	-
		◆1.27 m <sup>3</sup> (1.66 yd <sup>3</sup> )	1.10 m <sup>3</sup> (1.44 yd <sup>3</sup> )	5	1310 mm (51.6")	-
		◆1.46 m <sup>3</sup> (1.91 yd <sup>3</sup> )	1.28 m <sup>3</sup> (1.67 yd <sup>3</sup> )	5	1460 mm (57.5")	-
		◎1.16 m <sup>3</sup> (1.52 yd <sup>3</sup> )	1.00 m <sup>3</sup> (1.31 yd <sup>3</sup> )	5	1340 mm (52.8")	-
		1.50 m <sup>3</sup> (1.96 yd <sup>3</sup> )	1.30 m <sup>3</sup> (1.70 yd <sup>3</sup> )	6	1490 mm (58.7")	1610 mm (63.4")

◆ : Heavy duty bucket

◎ : Rock bucket