

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSL
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	114 × 144.5mm(4.49" × 5.69")
Piston displacement	8900cc(540cu in)
Compression ratio	17.8 : 1
Rated gross horse power(SAE J1995)	296Hp at 1850rpm(221kW at 1850rpm)
Maximum torque	138.3kgf · m(1000lb · ft) at 1400rpm
Engine oil quantity	31.7 l (8.4U.S. gal)
Dry weight	738kg(1630lb)
Low idling speed	700 ± 100rpm
High idling speed	1850 + 50rpm
Rated fuel consumption	164.8g/HP · hr at 1850rpm
Starting motor	Denso 24V-7.5kW
Alternator	Delco Remy 24V-50A
Battery	2 × 12V × 160Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 160cc/rev
Maximum pressure	330kgf/cm ² (4690psi)[360kgf/cm ² (5120psi)]
Rated oil flow	2 × 288 l /min (76.1U.S. gpm/ 63.3U.K. gpm)
Rated speed	1800rpm

[]: Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	35kgf/cm ² (500psi)
Rated oil flow	27 l /min(7.1U.S. gpm/5.9U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	7 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	330kgf/cm ² (4690psi) [360kgf/cm ² (5120psi)]
Overload relief valve pressure	390kgf/cm ² (5550psi)

[]: Power boost

5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	250cc/rev
Relief pressure	260kgf/cm ² (3700psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	107kgf · m(773lbf · ft)
Brake release pressure	30~50kgf/cm ² (427~711psi)
Reduction gear type	2 - stage planetary
Swing speed	9.0rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	360kgf/cm ² (5120psi)
Capacity(max / min)	114.2/185.2cc/rev
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	8.5kgf/cm ² (121psi)
Braking torque	44.4kgf · m(321lbf · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	6.5kgf/cm ² (92psi)
	Maximum	26kgf/cm ² (370psi)
Single operation stroke	Lever	61mm(2.4in)
	Pedal	123mm(4.84in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 160 × ∅ 110 × 1500mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 170 × ∅ 120 × 1760mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 150 × ∅ 105 × 1295mm
	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.

9) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R360LC-7A	Standard	600mm(24")	0.64kgf/cm ² (9.10psi)	51	3340mm(10' 11")
	Option	700mm(28")	0.56kgf/cm ² (7.96psi)	51	3440mm(11' 3")
		750mm(30")	0.52kgf/cm ² (7.39psi)	51	3490mm(11' 5")
		800mm(32")	0.49kgf/cm ² (6.97psi)	51	3540mm(11' 7")
		900mm(36")	0.44kgf/cm ² (6.26psi)	51	3640mm(11' 11")

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R360LC-7A	Standard	1.62m ³ (2.12yd ³)	1.40m ³ (1.8yd ³)	5	1440mm(56.7")	1570mm(61.8")
	Option	1.15m ³ (1.50yd ³)	1.0m ³ (1.3yd ³)	4	1090mm(42.9")	1220mm(48.0")
		1.46m ³ (1.91yd ³)	1.27m ³ (1.66yd ³)	4	1380mm(54.3")	1510mm(59.4")
		◆1.62m ³ (2.12yd ³)	1.40m ³ (1.8yd ³)	5	1540mm(60.6")	-
		⊙1.44m ³ (1.88yd ³)	1.27m ³ (1.66yd ³)	5	1280mm(50.4")	-
		⊙1.62m ³ (2.12yd ³)	1.40m ³ (1.8yd ³)	5	1545mm(60.8")	-
		⊙1.86m ³ (2.43yd ³)	1.60m ³ (2.1yd ³)	5	1725mm(67.9")	-
		1.86m ³ (2.43yd ³)	1.60m ³ (2.1yd ³)	5	1620mm(63.8")	1750mm(68.9")
		2.10m ³ (2.75yd ³)	1.80m ³ (2.4yd ³)	6	1810mm(71.3")	1940mm(76.4")
		2.32m ³ (3.03yd ³)	2.0m ³ (2.6yd ³)	6	1990mm(78.3")	2120mm(83.5")

◆ : Heavy duty bucket

⊙ : Rock bucket(Esco type)