

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins B5.9-C
Type	4-cycle turbocharged, charger air coded 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 x stroke	102 x 120mm(4.0" x 4.7")
Piston displacement	5880cc(359cu in)
Compression ratio	17.3 : 1
Rated gross horse power(SAE J1995)	178Hp at 2000rpm(133kW at 2000rpm)
Maximum torque	72.2kgf · m(522lb · ft) at 1500rpm
Engine oil quantity	24 (4.9U.S. gal)
Dry weight	506kg(1115lb)
High idling speed	2250+ 50rpm
Low idling speed	1050 ± 100rpm
Rated fuel consumption	167.0g/Hp · hr at 2000rpm
Starting motor	Nippon denso(24V-4.5kW)
Alternator	Delco Remy 24V-50A
Battery	2 x 12V x 100Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 x 112cc/rev
Maximum pressure	330kgf/cm ² (4690psi)[360kgf/cm ² (5120psi)]
Rated oil flow	2 x 224 /min (59.2U.S. gpm/ 49.3U.K. gpm)
Rated speed	2000rpm

[]: 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	30 l /min(7.9U.S. gpm/6.6U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 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	Fixed displacement axial piston motor
Capacity	151cc/rev
Relief pressure	275kgf/cm ² (3910psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	59kgf · m(426lb · ft)
Brake release pressure	33~50kgf/cm ² (430~710psi)
Reduction gear type	2 - stage planetary
Swing speed	12.6rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	330kgf/cm ² (4690psi)
Capacity(max / min)	134.7/82cc/rev (-#0472), 102.5/168.4cc/rev (#0473-)
Reduction gear type	Cluster type(-#0472), Planetary differential (#0473-)
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	6.0kgf/cm ² (85psi, -#0472), 8.0kgf/cm ² (114psi, #0473-)
Braking torque	40.6kgf · m(293lb · ft, -#0472), 49.3kgf/cm ² (357lb · ft, #0473-)

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	∅ 140 × ∅ 95 × 1345mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 150 × ∅ 100 × 1620mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 135 × ∅ 90 × 1185mm
	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
R250LC-7	Standard	600mm(24")	0.51kgf/cm ² (7.25psi)	51	3180mm(10' 5")
	Option	700mm(28")	0.44kgf/cm ² (6.26psi)	51	3280mm(10' 9")
		800mm(32")	0.39kgf/cm ² (5.55psi)	51	3380mm(11' 1")
		900mm(36")	0.35kgf/cm ² (4.98psi)	51	3480mm(11' 5")
R250NLC-7	Standard	600mm(24")	0.51kgf/cm ² (7.25psi)	51	2980mm(9' 9")
R250LC-7 HIGH WALKER	Standard	600mm(24")	0.53kgf/cm ² (7.54psi)	48	3180mm(10' 5")
	Option	700mm(28")	0.46kgf/cm ² (6.54psi)	48	3280mm(10' 9")
		800mm(32")	0.41kgf/cm ² (5.83psi)	48	3380mm(11' 1")
		★710mm(28")	0.46kgf/cm ² (6.54psi)	48	3290mm(10' 10")

★: Double grouser

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R250LC-7 R250NLC-7 H/WALKER	Standard	1.08m ³ (1.41yd ³)	0.95m ³ (1.24yd ³)	5	1130mm(44.5")	1250mm(49.2")
	Option	0.60m ³ (0.78yd ³)	0.55m ³ (0.72yd ³)	3	760mm(29.9")	880mm(34.6")
		0.79m ³ (1.03yd ³)	0.70m ³ (0.92yd ³)	3	890mm(35.0")	1010mm(39.8")
		1.03m ³ (1.35yd ³)	0.90m ³ (1.18yd ³)	4	1090mm(42.9")	1210mm(47.6")
		◆1.07m ³ (1.40yd ³)	0.95m ³ (1.24yd ³)	5	1150mm(45.3")	-
		◆1.27m ³ (1.66yd ³)	1.10m ³ (1.44yd ³)	5	1210mm(47.6")	-
		◆1.46m ³ (1.91yd ³)	1.28m ³ (1.67yd ³)	5	1460mm(57.5")	-
		⊙1.16m ³ (1.52yd ³)	1.00m ³ (1.31yd ³)	5	1340mm(52.8")	-
		1.50m ³ (1.96yd ³)	1.30m ³ (1.70yd ³)	6	1490mm(58.7")	1610mm(63.4")

◆ : Heavy duty bucket

⊙ : Rock bucket(Esco type)