

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

| Item | Specification |
|-------------------------------------|--|
| Model | Cummins 6BTAA |
| Type | 4-cycle turbocharged diesel engine, low emission |
| 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 | 102 × 120mm(4.02" × 4.72") |
| Piston displacement | 5880cc(359cu in) |
| Compression ratio | 17.3 : 1 |
| Rated gross horse power(SAE J1995) | 150Hp at 1950rpm(112kW at 1950rpm) |
| Maximum torque at 1500rpm | 62.6kgf · m(453lbf · ft) |
| Engine oil quantity | 24 l (6.3U.S. gal) |
| Dry weight | 496kg(1094lb) |
| High idling speed | 2180+ 50rpm |
| Low idling speed | 1050 ± 100rpm |
| Rated fuel consumption | 164.8g/Hp · hr at 1950rpm |
| Starting motor | Nippon denso(24V-4.5kW) |
| Alternator | Delco Remy (24V-50A) |
| Battery | 2 × 12V × 100Ah |

2) MAIN PUMP

| Item | Specification |
|------------------|---|
| Type | Variable displacement tandem axis piston pumps |
| Capacity | 2 × 113cc/rev |
| Maximum pressure | 330kgf/cm ² (4694psi) [360kgf/cm ² (5120psi)] |
| Rated oil flow | 2 × 220 l /min (58.1U.S. gpm/ 48.4U.K. gpm) |
| Rated speed | 1950rpm |

[] : 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 | 29.3 l /min(7.7U.S. gpm/6.4U.K. gpm) |

4) MAIN CONTROL VALVE

| Item | Specification |
|--------------------------------|--|
| Type | 9 spools mono-block |
| Operating method | Hydraulic pilot system |
| Main relief valve pressure | 330kgf/cm ² (4695psi) [360kgf/cm ² (5120psi)] |
| Overload relief valve pressure | 390kgf/cm ² (5550psi) |

[]: Pooser boost

5) SWING MOTOR

| Item | Specification |
|------------------------|--|
| Type | Two fixed displacement axial piston motor |
| Capacity | 151cc/rev |
| Relief pressure | 240kgf/cm ² (3414psi) |
| Braking system | Automatic, spring applied hydraulic released |
| Braking torque | 59kgf · m(427lbf · ft) |
| Brake release pressure | 33~50kgf/cm ² (470~711psi) |
| Reduction gear type | 2 - stage planetary |
| Swing speed | 12.5rpm |

6) TRAVEL MOTOR

| Item | Specification |
|------------------------|--|
| Type | Variable displacement axial piston motor |
| Relief pressure | 330kgf/cm ² (4695psi) |
| Reduction gear type | 2-stage planetary |
| Braking system | Automatic, spring applied hydraulic released |
| Brake release pressure | 11kgf/cm ² (156psi) |
| Braking torque | 49.3kgf · m(357lbf · 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 | ∅ 120 × ∅ 85 × 1290mm |
| | Cushion | Extend only |
| Arm cylinder | Bore dia × Rod dia × Stroke | ∅ 140 × ∅ 100 × 1510mm # ∅ 140 × ∅ 95 × 1460mm |
| | Cushion | Extend and retract |
| Bucket cylinder | Bore dia × Rod dia × Stroke | ∅ 125 × ∅ 85 × 1055mm # ∅ 100 × ∅ 70 × 870mm |
| | 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.

: LONG REACH

9) SHOE

| Item | | Width | Ground pressure | Link quantity | Overall width |
|------------------------|----------|------------|-----------------------------------|---------------|----------------|
| R210LC-7 | Standard | 600mm(24") | 0.46kgf/cm ² (6.54psi) | 49 | 2990mm(9' 10") |
| | Option | 700mm(28") | 0.40kgf/cm ² (5.69psi) | 49 | 3090mm(10' 2") |
| | | 800mm(32") | 0.35kgf/cm ² (4.98psi) | 49 | 3190mm(10' 6") |
| R210LC-7 LONG REACH | Standard | 800mm(32") | 0.42kgf/cm ² (5.97psi) | 49 | 3190mm(10' 6") |

10) BUCKET

| Item | | Capacity | | Tooth quantity | Width | | |
|----------|-----|---|--|---|---------------------|------------------|---------------|
| | | SAE heaped | CECE heaped | | Without side cutter | With side cutter | |
| R210LC-7 | STD | 0.92m ³ (1.20yd ³) | 0.80m ³ (1.05yd ³) | 5 | 1150mm(45.3") | 1270mm(50.0") | |
| | OPT | | 0.52m ³ (0.67yd ³) | 0.45m ³ (0.59yd ³) | 5 | 935mm(36.8") | 1035mm(40.7") |
| | | | 1.05m ³ (1.37yd ³) | 0.90m ³ (1.18yd ³) | 5 | 1250mm(49.2") | 1370mm(53.9") |
| | | | 1.05m ³ (1.37yd ³) | 0.87m ³ (1.14yd ³) | 5 | 1115mm(43.9") | 1235mm(48.6") |
| | | | 1.20m ³ (1.57yd ³) | 1.00m ³ (1.31yd ³) | 5 | 1400mm(55.1") | 1520mm(59.8") |
| | | | ◆1.05m ³ (1.37yd ³) | 0.92m ³ (1.20yd ³) | 5 | 1290mm(50.8") | - |
| | | | ◎0.87m ³ (1.14yd ³) | 0.75m ³ (0.98yd ³) | 5 | 1035mm(40.7") | - |
| | | | ◎1.05m ³ (1.37yd ³) | 0.94m ³ (1.23yd ³) | 5 | 1445mm(56.9") | - |

◆ : Heavy duty bucket

◎ : Rock bucket(Heavy)