

7. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Mitsubishi D04FD-TAA
Type	4-cycle turbocharged charge air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	4 cylinders, in-line
Firing order	1-3-4-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	102 × 130mm(4.02" × 5.12")
Piston displacement	4249cc(259cu in)
Compression ratio	16.5 : 1
Rated gross horse power(SAE J1995)	126Hp at 2000rpm(94kW at 2000rpm)
Maximum torque at 1800rpm	47.7kgf · m(345lb · ft)
Engine oil quantity	18.5 l (4.9U.S. gal)
Dry weight	420kg(926lb)
High idling speed	2100 ± 50rpm
Low idling speed	800 ± 100rpm
Rated fuel consumption	170.6g/Hp · hr at 2000rpm
Starting motor	Mitsubishi 24V-5.0kW
Alternator	Mitsubishi 24V-50A
Battery	2 × 12V × 100Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 80cc/rev
Maximum pressure	330kgf/cm ² (4694psi) [360kgf/cm ² (5120psi)]
Rated oil flow	2 × 168 l /min (44.4U.S. gpm/ 37.0U.K. gpm)
Rated speed	2100rpm

[]: Poer boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	40kgf/cm ² (570psi)
Rated oil flow	31.5 l /min(8.3U.S. gpm/6.9U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	11 spools two-block
Operating method	Hydraulic pilot system
Main relief valve pressure	330kgf/cm ² (4695psi) [360kgf/cm ² (5120psi)]
Overload relief valve pressure	380kgf/cm ² (5400psi)

[]: Poer boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	117.8cc/rev
Relief pressure	240kgf/cm ² (3414psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	56kgf · m(405lb · ft)
Brake release pressure	20kgf/cm ² (284psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement bent-axis axial piston motor
Relief pressure	360kgf/cm ² (5120psi)
Counter balance valve	Applied
Capacity(Max/min)	160/65cc/rev

7) POWER TRAIN

Item	Description	Specification	
Transmission	Type	2 speed power shift transmission	
	Gear ratio	1st	4.87
		2nd	1.20
Parking brake	Type	Multi disc brake integrated in transmission	
	Maximum braking power	3044kgf · m (22020lb · ft)	
Axle	Type	4 wheel drive with differential	
	Gear ratio	22.11	
	Brake	Multi disc brake	

8) REMOTE CONTROL VALVE

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

9) CYLINDER

Item	Specification	
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 115 × ∅ 80 × 1090mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 120 × ∅ 85 × 1340mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 115 × ∅ 80 × 950mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	∅ 110 × ∅ 75 × 235mm
	Cushion	Extend only
Outrigger cylinder	Bore dia × Rod dia × Stroke	∅ 125 × ∅ 75 × 475mm
	Cushion	-
2 Piece boom Adjust cylinder	Bore dia × Rod dia × Stroke	∅ 160 × ∅ 95 × 650mm
	Cushion	Extend only

10) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
STD	0.76m ³ (0.99yd ³)	0.65m ³ (0.85yd ³)	5	1060mm(41.7")	1180mm(46.5")
OPT	0.39m ³ (0.51yd ³)	0.34m ³ (0.44yd ³)	3	620mm(24.4")	740mm(29.1")
	0.50m ³ (0.65yd ³)	0.44m ³ (0.58yd ³)	4	760mm(29.9")	880mm(34.6")
	0.64m ³ (0.84yd ³)	0.55m ³ (0.72yd ³)	5	920mm(36.2")	1040mm(40.9")
	0.89m ³ (1.16yd ³)	0.77m ³ (0.85yd ³)	6	1220mm(48.0")	1340mm(52.8")
	1.05m ³ (1.37yd ³)	0.90m ³ (1.01yd ³)	6	1400mm(55.1")	1520mm(59.8")
	◆ 0.69m ³ (0.9yd ³)	0.62m ³ (0.81yd ³)	5	990mm(39.0")	-

◆: Heavy duty bucket