

## 7. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Model	Mitsubishi S6S-DT
Type	4-cycle, turbocharged, charge air cooled, 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	94 × 120mm(3.70" × 4.72")
Piston displacement	4996cc(305cu in)
Compression ratio	19.5 : 1
Rated gross horse power(SAE J1995)	126Hp at 2100rpm(94kW at 2100rpm)
Maximum torque at 1500rpm	42.5kgf · m(307lbf · ft)
Engine oil quantity	16.5 (4.4U.S. gal)
Dry weight	355kg(783lb)
High idling speed	2200+ 50rpm
Low idling speed	950 ± 100rpm
Rated fuel consumption	169.3g/Hp · hr at 2100rpm
Starting motor	Mitsubishi (24V-5.0kW)
Alternator	Mitsubishi (24V-50A)
Battery	2 × 12V × 100Ah

### 2) MAIN PUMP

Item	Specification
Type	Variable displacement axial piston pump
Capacity	2 × 80cc/rev
Maximum pressure	330kgf/cm <sup>2</sup> (4694psi) [360kgf/cm <sup>2</sup> (5120psi)]
Rated oil flow	2 × 168 /min (44.4U.S. gpm/ 37U.K. gpm)
Rated speed	2100rpm

[ ]: Power boost

### 3) GEAR PUMP

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

### 4) MAIN CONTROL VALVE

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

[ ]: Poer boost

### 5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	117.8cc/rev
Relief pressure	240kgf/cm <sup>2</sup> (3414psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	56kgf · m(405lb · ft)
Brake release pressure	20kgf/cm <sup>2</sup> (284psi)
Reduction gear type	2 - stage planetary
Swing speed	11.5rpm

### 6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement bent-axis axial piston motor
Relief pressure	360kgf/cm <sup>2</sup> (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	5.35
		2nd	1.39
Parking brake	Type		Multi disc brake integrated in transmission
	Maximum braking power		3044kgf · m(22020lbf · ft)
Axle	Type		4 wheel drive with differential
	Gear ratio		19.62
	Brake		Multi disc brake

## 8) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	6.5kg/cm <sup>2</sup> (92psi)
	Maximum	26kg/cm <sup>2</sup> (370psi)
Single operation stroke	Lever	82.7mm(3.3in)

## 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 <sup>3</sup> (0.99yd <sup>3</sup> )	0.65m <sup>3</sup> (0.85yd <sup>3</sup> )	5	1060mm(41.7")	1180mm(46.5")
OPT	0.39m <sup>3</sup> (0.51yd <sup>3</sup> )	0.34m <sup>3</sup> (0.44yd <sup>3</sup> )	3	620mm(24.4")	740mm(29.1")
	0.50m <sup>3</sup> (0.65yd <sup>3</sup> )	0.44m <sup>3</sup> (0.58yd <sup>3</sup> )	4	760mm(29.9")	880mm(34.6")
	0.64m <sup>3</sup> (0.84yd <sup>3</sup> )	0.55m <sup>3</sup> (0.72yd <sup>3</sup> )	5	920mm(36.2")	1040mm(40.9")
	0.89m <sup>3</sup> (1.16yd <sup>3</sup> )	0.77m <sup>3</sup> (0.85yd <sup>3</sup> )	6	1220mm(48.0")	1340mm(52.8")
	1.05m <sup>3</sup> (1.37yd <sup>3</sup> )	0.90m <sup>3</sup> (1.01yd <sup>3</sup> )	6	1400mm(55.1")	1520mm(59.8")