

Specifications

ENGINE

The new generation engine has been developed to comply with the strictest emission controls.

Model	Komatsu 4D88E-6
Type	emissionised 4-cycle diesel engine
Displacement.....	2.189 cm ³
Bore x stroke.....	88 x 90 mm
No. of cylinders	4
Engine power	
at rated engine speed.....	2.400 rpm
ISO 14396.....	29,5 kW / 39,6 HP
ISO 9249 (net engine power).....	28,5 kW / 38,2 HP
Max. torque/engine speed	137 Nm/1.440 rpm
Cooling system.....	water
Air filter type	dry
Starter motor	electric motor with pre-heating air system for cold climate

OPERATING WEIGHT

Operating weight with standard bucket, fully serviced, +75 kg operator (ISO 6016).

Operating weight with cab and rubber shoes	5.280 kg
Operating weight with cab and steel shoes	5.350 kg

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Main pump	2 x variable displacement pump
Max. pump flow.....	53,5 x 2 + 33,8 ltr/min
Max. operating pressure	26,5 MPa (265 bar)
Hydraulic motors:	
Travel.....	2 x variable displacement
Swing	1 x fixed displacement
Hydraulic cylinders (bore x stroke):	
Boom	90 x 696 mm
Arm	85 x 733 mm
Bucket.....	75 x 580 mm
Boom swing.....	95 x 630 mm
Blade.....	110 x 140 mm
Bucket digging force (ISO 6015)	3.900 daN (3.980 kg)

Arm crowd force (ISO 6015):

1.640 mm arm.....	2.392 daN (2.440 kg)
2.000 mm arm.....	2.226 daN (2.270 kg)

The digging equipment is fully controlled by PPC servo-controls. All movements are stopped by lifting the safety levers on the tilting case.

TRANSMISSION

Type	2 speed hydrostatic transmission, controlled and steered by means of two levers and two pedals
Hydraulic motors	2 x axial pistons
Reduction system.....	planetary gear
Max. drawbar pull.....	4.200 daN (4.280 kgf)
Travel speed	2,8 - 4,6 km/h

SWING SYSTEM

The rotation is operated by means of an orbital hydraulic motor. Single ball-bearing ring with internal, induction hardened toothring. Centralised lubrication of the unit.

Swing speed.....	9,0 rpm
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BLADE

Type	electro-welded, single unit structure
Width x height	1.960 x 355 mm
Max. lifting above ground level	430 mm
Max. depth below ground level.....	330 mm

UNDERCARRIAGE

Central lower X-frame and carriage frame with boxed section.	
Track rollers (each side).....	4
Shoe width	400 mm
Ground pressure (standard).....	0,25 kg/cm ²

ELECTRIC SYSTEM

Voltage.....	12 V
Battery	72 Ah
Alternator.....	40 A
Starter motor	2,3 kW

SERVICE CAPACITIES

Fuel tank.....	65 ltr
Radiator and system	8,5 ltr
Engine oil (refill)	7,5 ltr
Hydraulic system.....	55 ltr

ENVIRONMENT

Vibration levels (EN 12096:1997)*

Hand/arm..... ≤ 2,5 m/s² (uncertainty K = 1,2 m/s²)

Body

≤ 0,5 m/s² (uncertainty K = 0,2 m/s²)

* for the purpose of risk assessment under directive 2002/44/EC,

please refer to ISO/TR 25398:2006.

BUCKET RANGE

Width mm	Capacity m ³ (ISO 7451)	Weight kg	No. of teeth
300	0,07	75	2
400	0,1	90	3
500	0,125	100	4
600	0,15	115	5
700	0,175	125	5

