

Specifications

ENGINE

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

Model	Komatsu 4D88E-5KFD
Type	4-cycle water-cooled diesel engine
Bore × stroke	88 × 90 mm
No. of cylinders	4
Engine power [turbo]	
at rated engine speed	2.800 rpm
ISO 14396	34,9 [39,9] kW / 46,8 [53,5] HP
ISO 9249 (net engine power)	33,6 [38,9] kW / 45,1 [52,2] HP
Max. torque/engine speed	145,1 Nm / 1.200 rpm
Aspiration	natural [turbo]
Cooling system	water
Air filter type	dry with safety element
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) 2.630 kg

HYDRAULIC SYSTEM

Type	Komatsu CLSS
Hydraulic pump	gear pump
Max. pump flow	62 ltr/min
Max. operating pressure	191 bar
Control valve	3 elements fully servo-controlled SUPER FLOW hydraulic system (option):
Max. pump flow	100 ltr/min
Max. operating pressure	191 bar
Control valve	3 elements

TYRES

Standard	10-16.5 8PR
Option	10-16.5 8PR (narrow tread) 10-16.5 (Airboss)

CONTROLS

Proportional servo-controls (PPC). The left lever controls the machine movements, the right one controls the working equipment. The pedal controls the auxiliary circuit for attachments. A safety system neutralises all operations when the safety bars are risen or the operator is not seated.

TRANSMISSION

Type	hydrostatic
Pumps	2 × variable displacement with 2 stage
Hydraulic motors	2 × axial pistons
Constant mesh final transmission with “heavy duty” type roller chains, which are immersed in an oil bath.	
No. of travel speeds	2
Max. travel speed	16 km/h
Oil immersed discs for both parking and working breaks with negative action and automatic insertion.	

ELECTRIC SYSTEM

Voltage	12 V
Battery	80 Ah
Alternator	40 A

SERVICE CAPACITIES

Hydraulic system	38 ltr
Fuel tank	53 ltr
Hydraulic transmission (chains)	15,5 + 15,5 ltr
Engine oil	8 ltr

LOADER

Operating capacity (ISO 14397)	700 kg
Tipping load (ISO 14397)	1.400 kg
Standard bucket capacity (ISO 7546)	0,4 m ³
Bucket breakout force (ISO 14397)	1.716 daN (1.750 kg)
Max lifting capacity (ISO 8313)	2.138 daN (2.180 kg)
Operating capacity with pallet forks	490 kg
Max. loading height with forks	2.720 mm
Max. reach with forks	1.920 mm

ENVIRONMENT

Vibration levels (EN 12096:1997)*	
Hand/arm	≤ 2,5 m/s ² (uncertainty K = 1,2 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,2 m/s ²)

* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.

