

KOMATSU

WA80M-8

EU Stage V Engine

WHEEL LOADER

PRELIMINARY



WA80

ENGINE POWER

53,7 kW / 72,0 HP @ 2.100 rpm

OPERATING WEIGHT

5.690 - 5.995 kg

BUCKET CAPACITY

0,8 - 1,25 m³

Walk-Around

ENHANCED FUEL EFFICIENCY AND ENVIRONMENTAL PERFORMANCE

Powerful and Environmentally Friendly

- NEW** • EU Stage V engine
- NEW** • Greater engine power
- NEW** • Faster travel speed (40 km/h option)
- NEW** • Wide core radiator with (optional) reversible fan
- Highly efficient hydrostatic drive line

First-Class Comfort

- NEW** • Large multifunctional monitor
- NEW** • Improved, ergonomic control elements
- PPC multi-function lever
- Air conditioner (optional)
- Electronic Controlled Suspension System (ECSS) (optional)



WA80M-8

Productive and safe

- NEW** • Improved rear visibility, complies with ISO 5006
- NEW** • High payloads and tipping loads
- Superior breakout force
- Low centre of gravity

Total versatility

- Easy Fork (EF) kinematic for parallel movement during fork application
- Hydraulic quick-coupler
- LSD axles
- 100% differential lock (optional)

KOMTRAX

- Komatsu Wireless Monitoring System
- 3G mobile communications
- Integrated communication antenna
- Increased operational data and fuel savings



The Komatsu EU Stage V engine is productive, dependable and efficient and offers increased engine power. It requires no Adblue® to meet emission standards.



Payloads and tipping loads are increased compared to the current model



Newly designed, large multi-function monitor and improved, ergonomic control elements.



Standard heated rear window and a newly designed, low-profile exhaust pipe ensure improved rear visibility (to ISO 5006).

ENGINE

| | |
|--------------------------|---|
| Model | Komatsu S4D98E-6VHA |
| Type | Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel |
| Engine power | |
| at rated engine speed | 2.100 rpm |
| ISO 14396 | 53,7 kW / 72,0 HP |
| Max. torque/engine speed | 295 Nm/1.365 rpm |
| No. of cylinders | 4 |
| Bore × stroke | 98 × 110 mm |
| Displacement | 3,3 l |

ENVIRONMENT

| | |
|----------------------------------|---|
| Engine emissions | Fully complies with EU Stage V exhaust emission regulations |
| Noise levels | |
| LwA external | 101 dB(A) (2000/14/EC Stage II) |
| LpA operator ear | 74 dB(A) (ISO 6396 dynamic test) |
| Vibration levels (EN 12096:1997) | |
| Hand/arm | ≤ 2,5 m/s ² (uncertainty K = 0,42 m/s ²) |
| Body | ≤ 0,5 m/s ² (uncertainty K = 1,19 m/s ²) |

HYDRAULIC SYSTEM

| | |
|------------------------------|-----------------------|
| System | Open hydraulic system |
| Working pressure (max.) | 270 bar |
| Maximum pump flow | 60 l/min |
| Option | 120 l/min |
| No. of boom/bucket cylinders | 2/1 |
| Type | Double-action |
| Hydraulic control lever | Multifunction lever |

TRANSMISSION

| | |
|---|--------------------------|
| Drive system | Hydrostatic transmission |
| Hydrostatic pump | 1 variable piston pump |
| Hydrostatic motor | 1 variable piston motor |
| Speed ranges (forwards/backwards) | 2/2 |
| Max. travel speeds (forwards/backwards) 20 km/h version | |
| 1. speed range | 0 - 5,0 km/h |
| 2. speed range | 0 - 20,0 km/h |
| Creep | 0 - 10,0 km/h |
| Max. travel speeds (forwards/backwards) 40 km/h version | |
| 1. speed range | 0 - 15 km/h |
| 2. speed range | 0 - 40 km/h |
| Creep | 0 - 10 km/h |

MEASUREMENTS AND WORKING SPECIFICATIONS

| | | Universal | | Light materials | 4-in-1 |
|---|----------------------|------------|------------|-----------------|------------|
| | | w. teeth | w/o teeth | w/o teeth | w. teeth |
| Bucket capacity (heaped, ISO 7546) | m³ | 1,0 | 1,0 | 1,25 | 0,8 |
| Sales code | | C61 | C11 | C14 | C16 |
| Material density | t/m ³ | 1,8 | 1,8 | 1,25 | 1,8 |
| Bucket weight | kg | 330 | 305 | 335 | 590 |
| Static tipping load, straight | kg | 4.710 | 4.740 | 4.675 | 4.395 |
| Static tipping load, 40° articulated | kg | 3.965 | 3.990 | 3.930 | 3.630 |
| Break-out force hydraulic | kN | 49,7 | 49,7 | 37,0 | 44,7 |
| Lifting capability hydr. at ground level | kN | 51,0 | 51,0 | 38,4 | 45,2 |
| Operating weight | kg | 5.715 | 5.690 | 5.720 | 5.995 |
| Turning radius at corner of tyres | mm | 3.875 | 3.875 | 3.875 | 3.875 |
| Turning radius at bucket edge | mm | 4.290 | 4.290 | 4.440 | 4.315 |
| Reach at 45° | mm | 995 | 920 | 1.050 | 1.030 |
| Dump height at 45° | mm | 2.430 | 2.490 | 2.335 | 2.405 |
| Hinge pin height | mm | 3.200 | 3.200 | 3.200 | 3.200 |
| Height top edge of bucket | mm | 4.100 | 4.100 | 4.170 | 4.010 |
| Digging depth | mm | 100 | 100 | 135 | 100 |
| Max. loading height at 45° | mm | 3.000 | 3.000 | 2.965 | 2.945 |
| Overall length, bucket grounded | mm | 5.640 | 5.540 | 5.740 | 5.720 |
| Wheelbase | mm | 2.260 | 2.260 | 2.260 | 2.260 |
| Bucket width | mm | 1.915 | 1.915 | 1.870 | 1.900 |
| Width over tyres | mm | 1.880 | 1.880 | 1.880 | 1.880 |
| Track width | mm | 1.470 | 1.470 | 1.470 | 1.470 |
| Ground clearance | mm | 440 | 440 | 440 | 440 |
| Overall height | mm | 2.750 | 2.750 | 2.750 | 2.750 |

All measurements with tyres 405/70 R20 and air condition