

# KOMATSU

## WA70M-8



Wheel loader

**Engine power**  
46.2 kW / 62.0 HP @ 2200 rpm

**Operating weight**  
4980 - 5300 kg

**Bucket capacity**  
0.75 - 1.25 m<sup>3</sup>

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# Increased engine power and environmental performance

## Powerful and environmentally friendly

- EU Stage V engine
- Increased engine power and higher engine torque at low engine speeds
- High payloads and tipping loads
- Superior breakout force
- Highly efficient hydrostatic drive line
- Low operating costs

## First-class comfort

- Quiet and ergonomic working environment
- Large multifunctional monitor
- Improved, ergonomic control elements
- Air conditioning (optional)
- Electronic Controlled Suspension System (ECSS) (optional)

## Total versatility

- Easy Fork (EF) kinematic for parallel movement during fork application
- Excellent all-round visibility
- Variable creep speed (optional)
- LSD axles

## Easy maintenance

- Tilting cab
- Wide opening engine hood
- Wide core radiator with (optional) reversible fan
- Quick-access service side cover

## Komtrax

- Komatsu Wireless Monitoring System
- 4G mobile communications
- Integrated communication antenna
- Increased operational data and fuel savings



# Powerful and environmentally friendly



### Full power for the highest performance

Optimised for tough construction applications, the Komatsu 4D98E-6SHA engine delivers high torque even at low rpm. With high rimpull and enough reserves even in the most difficult ground conditions the WA70M-8 still features a low fuel consumption. A fully automatic, hydrostatic transmission sends power to all four wheels while the large 98 l fuel tank guarantees long and uninterrupted working hours.

### Komatsu EU Stage V

The Komatsu EU Stage V engine is productive, dependable and efficient. With ultra-low emissions, it provides a lower environmental impact and a superior performance to help reduce operating costs. The operator can work in complete peace of mind.

### High productivity

If you're looking for a small machine with huge performances, then this compact wheel loader is made for you. With its amazing lifting and dumping height and superior breakout power, it works like a bigger machine. When equipped with one of Komatsu's redesigned, larger and easier to fill buckets, or with pallet forks, high payloads guarantee maximum productivity.

## Total versatility

### Diverse and flexible

Komatsu's compact wheel loaders are an optimal choice for a wide range of applications. On construction sites, in the recycling industry or for agricultural jobs, with the hydraulic quick-coupler and a wide range of attachments, these machines are extremely versatile. When working with Komatsu pallet forks, the operator can rely on EF kinematic to transport loads parallel to the ground without readjusting the fork tines.

### Compact dimensions

Low passages or confined construction sites? Those are the jobsites Komatsu compact wheel loaders are made for. The 40° angle of the articulated steering system reduces the turning radius to 3.64 m. The low height – less than 2.5 m – gives you the flexibility to go under even very low passages.

### Highest safety

For maximum operational safety, the machine's low centre of gravity enhances stability, and its compact dimensions ensure exceptional all-round visibility. Standard safety features such as the ROPS/FOPS cab, back-up alarm, reversing light and large mirrors add up to make the WA70M-8 a truly safe machine.



Low total height (2.48 m) for easy transport



Electronically controlled suspension system load stabilizer (ECSS) (option)



Electrically actuated quick-coupler for fast and easy change of attachments

## First-class comfort



### Excellent all-round visibility

Thanks to wide glass surfaces and lower door windows, the machine offers excellent visibility in all directions, for total control of the surrounding area.

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





### Highest operator comfort

Along with its compact size, the WA70M-8 offers unequaled comfort. The spacious cab was developed with exceptional care given to details and special attention for the ergonomic controls. Efficient air conditioning (option) and ventilation guarantee ideal thermal comfort. The wide cab door allows fast and safe entering and exiting. The work environment is quiet and comfortable thanks to optimal noise insulation.

### New multi-function monitor with more information

The user-friendly multi-function colour monitor with Equipment Management and Monitoring System (EMMS) supports safe and smooth work. Eco-gauge and an Eco guidance with active recommendations help maximising fuel savings. The monitor is conveniently customisable with a choice of 24 languages.



Large multi-function monitor



Improved, ergonomic control elements

## Easy maintenance

### A reliable partner

Komatsu compact wheel loaders are known around the world for their robustness and durability. All maintenance and service is performed easily and quickly thanks to their unique tilting cab.

The engine hood can be opened widely for a quick daily inspection, the electric equipment is well protected behind a maintenance cover inside the cab, and the easy-to-clean radiator is

conveniently accessible. A compartment for battery, main switch and relays improves maintenance access to the electrical system.



Fast, easy and comfortable access to daily inspection points

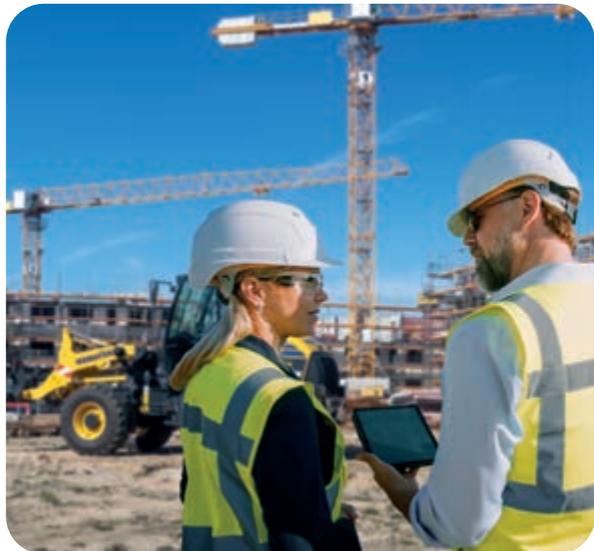


Wide core radiator with (optional) reversible fan



Side cover for quick maintenance access

## Information and communication technology



### Knowledge

You get quick answers to basic and critical questions about your machines – what they're doing, when they did it, where they're located, how they can be used more efficiently and when they need to be serviced. Performance data is relayed by wireless communication technology (satellite, GPRS or 4G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

### Convenience

Komtrax enables convenient fleet management on the web, wherever you are. Data is analysed and packaged specifically for effortless and intuitive viewing in maps, lists, graphs and charts. You can foresee eventual maintenance issues and required spare parts, and troubleshoot a problem before Komatsu technicians arrive on site.



### The way to higher productivity

Komtrax uses the latest wireless monitoring technology. Compatible on PC, smartphone or tablet, it delivers insightful and cost saving information about your fleet and equipment, and offers a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows proactive and preventive maintenance and helps to efficiently run a business.

### Power

The detailed information that Komtrax puts at your fingertips 24 hours a day, 7 days a week gives the power to make better daily and long-term strategic decisions – at no extra cost. Problems can be anticipated, maintenance schedules customised, downtime minimised and machines kept where they belong: working on the jobsite.



# Specifications

## Engine

Model	Komatsu 4D98E-6SHA
Type	Common rail direct injection, water-cooled, emissionised diesel
Engine power	
at rated engine speed	2200 rpm
ISO 14396	46.2 kW / 62.0 HP
Max. torque/engine speed	235 Nm / 1430 rpm
No. of cylinders	4
Bore × stroke	98 × 110 mm
Displacement	3.3 l
Air-filter type	Dry air filter with pre-filter and safety cartridge
Fuel	Diesel fuel, conforming to EN590 Class 2/Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

## 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 - 7.6 km/h
2. speed range	0 - 20.0 km/h
Creep	0 - 10.0 km/h

## Chassis and tyres

Type	Low build rear axle oscillation for optimum stability and for best performance in earthmoving applications
System	4-wheel drive
Axles	Planetary rigid axles with automatic limited slip differentials in both axles
Oscillation	Rear axle oscillation for optimum stability, oscillation angle 10°
Tyres	365/70 R18

## Brakes

Operating brakes	Combined inch brake pedal actuates maintenance free wet-disc type brakes in the front axle. Self-braking via the hydrostatic drive
Parking brake	Dry disc

## Hydraulic system

System	Open hydraulic system
Working pressure (max.)	230 bar
Maximum pump flow	60 l/min
No. of boom/bucket cylinders	1/1
Type	Double-action
Bore diameter × stroke	
Boom cylinder	95 × 670 mm
Bucket cylinder	85 × 522 mm
Hydraulic control lever	Multifunction lever
Hydraulic cycle with rated load bucket filling	
Raise time	5.3 s
Lowering time (empty)	3.0 s
Dumping time	1.1 s

## Steering system

System	Articulated frame steering
Type	Hydraulic
Steering angle to either side	40°
Steering pump	Gear pump
Working pressure	175 bar
No. of steering cylinders	1
Type	Double-action
Bore diameter × stroke	70 × 363 mm
Smallest turn (outer edge of tyre 365/70 R18)	3635 mm

## Cabin

Cabin in conformity with ISO 3471 with ROPS (roll over protective structure) in conformity with SAE J1040c and FOPS (falling object protective structure) in conformity with ISO 3449. The pressurised cabin is mounted upon rubber bearings and is noise dampened. Tiltable for best servicing access.

## Service refill capacities

Cooling system	13.8 l
Fuel tank	98 l
Engine oil	9.6 l
Hydraulic system	45 l
Front axle	7.5 l
Rear axle	4.2 l
Transfer	0.7 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	$\leq 2.5 \text{ m/s}^2$ (uncertainty K = 0.42 $\text{m/s}^2$ )
Body	$\leq 0.5 \text{ m/s}^2$ (uncertainty K = 1.19 $\text{m/s}^2$ )
Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1.2 kg, CO <sub>2</sub> equivalent 1.72 t.	

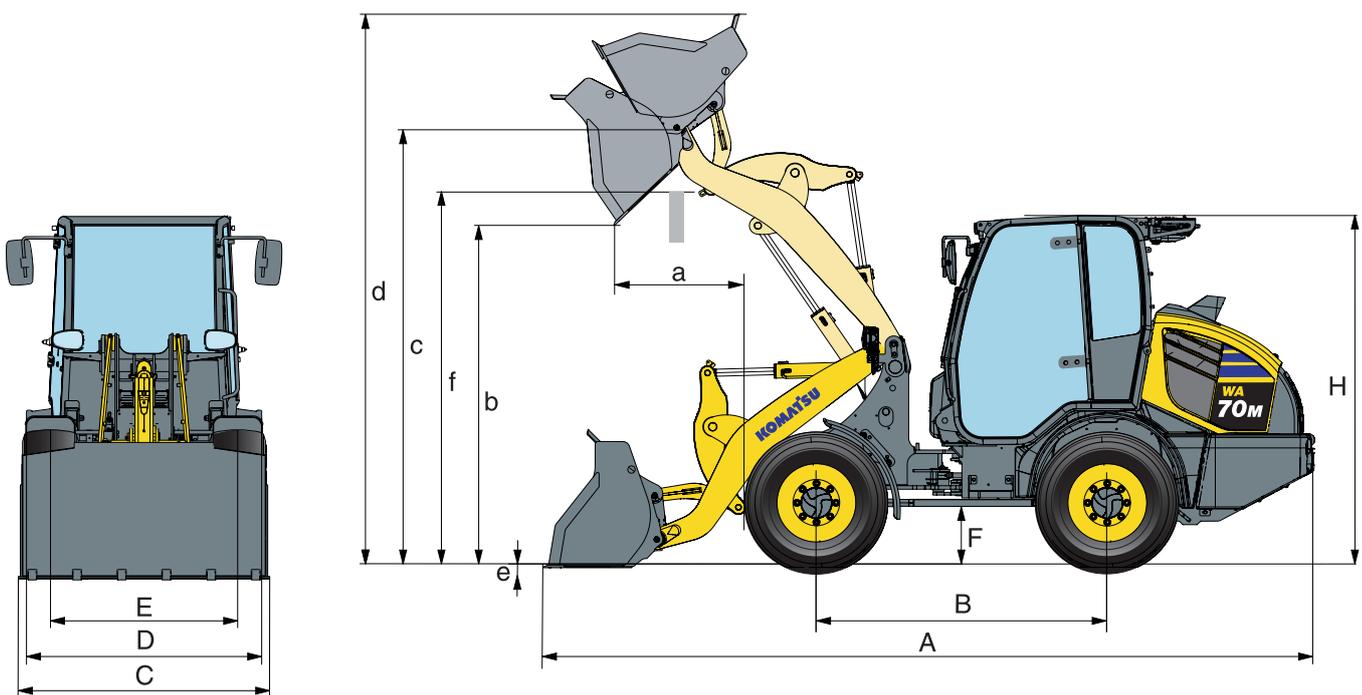


## Dimensions and performance figures

### Measurements and working specifications

Bucket type		Universal		Light materials		4-in-1	
		w. teeth	w/o teeth	w/o teeth	w/o teeth	w. teeth	w. teeth
Bucket capacity (heaped, ISO 7546)	m <sup>3</sup>	<b>0.85</b>	<b>0.85</b>	<b>1.0</b>	<b>1.25</b>	<b>0.75</b>	<b>0.80</b>
Material density	t/m <sup>3</sup>	1.8	1.8	1.6	1.3	1.8	1.65
Bucket weight	kg	300	275	300	335	570	590
Static tipping load, straight	kg	4220	4340	4115	4040	4055	4035
Static tipping load, 40° articulated	kg	3610	3715	3515	3445	3430	3410
Break-out force hydraulic	kN	40.4	40.4	35.6	31.4	30.9	30.9
Lifting capability hydr. at ground level	kN	41.7	41.7	36.7	32.6	32.4	32.4
Operating weight	kg	5000	4980	5010	5045	5280	5300
Turning radius at corner of tyres	mm	3635	3635	3635	3635	3635	3635
Turning radius at bucket edge	mm	4100	4100	4175	4210	4170	4210
a Reach at 45°	mm	1020	925	970	1035	1075	1075
b Dump height at 45°	mm	2335	2435	2340	2260	2280	2280
c Hinge pin height	mm	3135	3135	3135	3135	3135	3135
d Height top edge of bucket	mm	3940	3940	3935	4115	3910	3910
e Digging depth	mm	105	105	140	140	110	110
f Max. loading height at 45°	mm	2930	2930	2895	2895	2920	2920
A Overall length, bucket grounded	mm	5570	5430	5540	5660	5655	5655
B Wheelbase	mm	2050	2050	2050	2050	2050	2050
C Bucket width	mm	1800	1800	1870	1870	1800	1900
D Width over tyres	mm	1685	1685	1685	1685	1685	1685
E Track width	mm	1340	1340	1340	1340	1340	1340
F Ground clearance	mm	440	440	440	440	440	440
H Overall height	mm	2485	2485	2485	2485	2485	2485

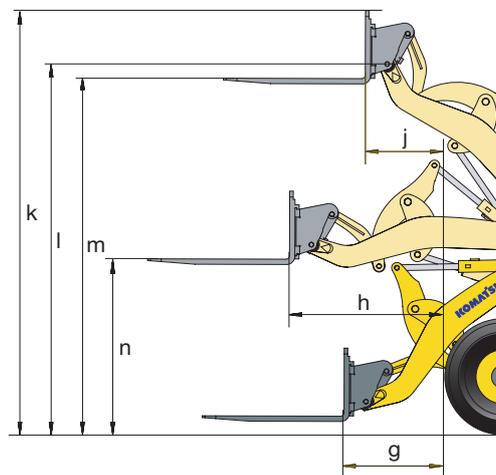
All measurements with tyres 365/70 R18 and air conditioning



**Performance figures with fork tines**

Fork tine type	FEM IIA	
<b>Fork tine length</b>	<b>mm</b>	<b>1200</b>
g Max. reach at ground level	mm	780
h Max. reach	mm	1310
j Max. reach at max. stacking height	mm	670
k Max. height fork-carrier	mm	3590
l Hinge pin height	mm	3135
m Max. stacking height	mm	3010
n Height of forks at maximum reach	mm	1470
Max. tipping load, straight	kg	3140
Max. tipping load, articulated	kg	2600
Max. payload as per EN 474-3, 80%	kg	2080
Max. payload as per EN 474-3, 60%	kg	1560
Weight in working order with fork tines	kg	4925

All measurements with tyres 365/70 R18 and air conditioning



## Standard and optional equipment

### Engine

Komatsu 4D98E-6SHA common rail direct injection diesel engine	●
EU Stage V compliant	●
Diesel Particulate Filter (DPF)	●
Alternator 90 A / 12 V	●
Starter motor 2.2 kW / 12 V	●
Battery 92 Ah / 12 V	●

### Transmission and brakes

Combined inch/brake pedal	●
Creeping function	○

### Chassis and tyres

Heavy-duty axles	●
LSD-differential front and rear	●
Various tyre types and sizes on request	○

### Hydraulic system

3-spool main control valve	●
Multi-function lever	●
Hydraulic quick-coupler	●
Loader control with return-to-dig	○
Auto-inch valve	○
Biodegradable oil for hydraulic system	○

### Lighting system

Halogen headlights	●
Reversing lights	●
Additional lights front and rear	○
LED headlights	○
Optical back-up alarm (strobe light)	○

### Cabin

Spacious double door driver's cab to DIN/ISO with heating	●
Tilting cab	●
ROPS/FOPS frame according to SAE	●
All-round tinted glazing	●
Heated rear window	●
Rear window wiper	●
Sun visor	●
Adjustable steering column	●
Suspended seat	●
Seat belt (EU standard)	●
Wrist rest with integrated small storage box	●
Large storage box at left hand side	●
Multi-function colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
12 Volt power supply	●
Front window wiper with intermittent feature	●
Adjustable high comfort air suspension seat	○
Air conditioning	○
Electric pre-heating of engine & cab	○
DAB+ Radio with Bluetooth®, USB, AUX and hands-free kit	○
Sun reflection decal for cab/canopy roof	○

### Safety equipment

Emergency steering system	●
Back-up alarm	●
Horn	●
Emergency engine stop switch	●
Seat belt caution indicator	●
Battery main switch	●
Beacon light	○
Immobiliser	○
Immobiliser with master key	○
Anti-drop valve	○
Fire extinguisher	○

## Service and maintenance

Komtrax – Komatsu wireless monitoring system (4G)	●
Tool-set	●
Wide-core radiator	●
Radiator fan with reversing function	○
Automatic central lubrication	○

## Attachments

Bucket with or without teeth	○
4-in-1 bucket with teeth or bold on cutting edge	○
Light material buckets	○
Fork carrier and tines	○
Cutting edge guard	○

## Other equipment

Z-bar boom (parallel movement when using dedicated fork tines)	●
Counterweight	●
Towing device	●
Electronically controlled suspension system load stabilizer (ECSS)	○
Special custom colour	○
Bucket level indicator	○

Further equipment on request

- standard equipment
- optional equipment



A wide range of buckets and attachments is available. Your Komatsu distributor is ready to assist you with the selection of suitable options.

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

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