

# Komatsu WA70-7 Wheel Loader

## Specifications

### ENGINE

Model .....	Komatsu 4D95LWE-5
Engine power	
at rated engine speed .....	2.350 rpm
ISO 14396 .....	36,9 kW/49,5 HP
Max. torque/engine speed .....	172 Nm/1.600 rpm
No. of cylinders .....	4
Bore × stroke .....	95 × 115 mm
Displacement .....	3,3 ltr
Injection system .....	Direct injection
Electrical system .....	12 V
Battery .....	92 Ah
Alternator .....	90 A
Air filter type .....	Dry air filter with pre-filter and safety cartridge

### TRANSMISSION

Drive system .....	Hydrostatic transmission, switchable in all directions under full power
Hydrostatic pump .....	1 variable piston pump
Hydrostatic motor .....	1 variable piston motor
Speed ranges (forwards/backwards) .....	2/2
Travel speeds (forwards/backwards)	
1. speed range .....	0 - 5 km/h
2. speed range .....	0 - 20 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 .....	12.5-18 (standard)

### SERVICE REFILL CAPACITIES

Cooling system .....	9,1 ltr
Fuel tank .....	132 ltr
Engine oil .....	7,5 ltr
Hydraulic system .....	50 ltr
Front axle .....	8,4 ltr
Rear axle .....	8,4 ltr
Transfer box .....	1,3 ltr

### BRAKES

Operating brakes .....	Combined inch/brake pedal actuates brakes on all four wheels via hydrostatic drive and dry disc at front axle
Parking brake .....	Dry disc

### HYDRAULIC SYSTEM

System .....	Open hydraulic system
Working pressure .....	230 bar
Circulating capacity of the hydraulic pump .....	53 ltr/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
Kinematic .....	Z-Kinematic with highest breakout force. Parallel movement when using dedicated fork tines.
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 .....	Hydrostatic
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 the tyre 12.5-18) .....	3.680 mm

### CABIN

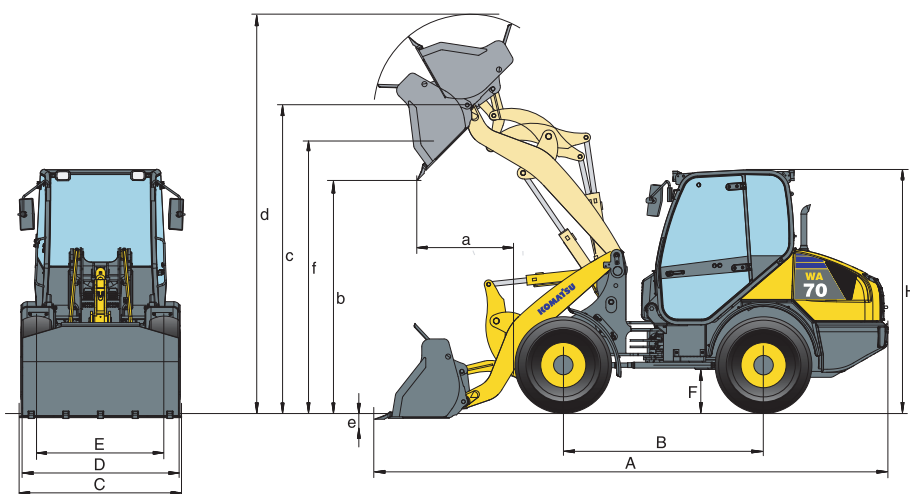
Cabin in conformity with ISO 3471 with ROPS (roll over protective structure) in conformity with SAE J1040c and FOPS (falling object protective structure) in conformity with ISO 3449. The pressurised cabin is mounted upon hydrobearings and is noise dampened. Tilttable for best servicing access.

### ENVIRONMENT

Engine emissions .....	Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations
Noise levels .....	Noise levels (external/internal) fully comply 2000/14/EC Stage II and 98/37/EC
Vibration levels (EN 12096:1997)*	
Hand/arm .....	≤ 2,5 m/s <sup>2</sup> (uncertainty K = 0,62 m/s <sup>2</sup> )
Body .....	≤ 0,5 m/s <sup>2</sup> (uncertainty K = 0,46 m/s <sup>2</sup> )

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

# Dimensions & Performance Figures



## MEASUREMENTS AND WORKING SPECIFICATIONS

		Universal		Light materials		4-in-1	
		w. teeth	w/o teeth	w/o teeth	w/o teeth	w. teeth	w. teeth
<b>Bucket capacity (heaped, ISO 7546)</b>	<b>m<sup>3</sup></b>	<b>0,85</b>	<b>0,85</b>	<b>1,0</b>	<b>1,25</b>	<b>0,75</b>	<b>0,8</b>
Sales code		C61	C11	C13	C14	C16	C26
Material density	t/m <sup>3</sup>	1,8	1,8	1,6	1,3	1,8	1,65
Bucket weight without teeth	kg	295	273	301	337	592	615
Static tipping load, straight	kg	4.200	4.300	4.170	4.080	3.900	3.900
Static tipping load, 40° articulated	kg	3.650	3.750	3.620	3.540	3.350	3.350
Breakout force hydraulic	kN	41	41	35	31	36	36
Lifting capability hydr. at ground level	kN	41	41	42	43	43	43
Operating weight	kg	5.060	5.035	5.065	5.100	5.355	5.380
Turning radius at corner of tyres	mm	3.680	3.680	3.680	3.680	3.680	3.680
Turning radius at bucket edge	mm	4.175	4.175	4.245	4.280	4.250	4.286
a Reach at 45°	mm	935	915	960	1.030	980	980
b Dump height at 45°	mm	2.415	2.435	2.335	2.260	2.355	2.355
c Hinge pin height	mm	3.150	3.150	3.150	3.150	3.150	3.150
d Height top edge of bucket	mm	4.070	4.070	4.025	4.190	3.950	3.950
e Digging depth	mm	100	100	140	140	110	110
f Max. loading height at 45°	mm	2.875	2.875	2.835	2.835	2.870	2.870
A Overall length, bucket grounded	mm	5.445	5.310	5.375	5.475	5.470	5.470
B Wheelbase	mm	2.050	2.050	2.050	2.050	2.050	2.050
C Bucket width	mm	1.800	1.800	1.870	1.870	1.800	1.900
D Width over tyres	mm	1.625	1.625	1.625	1.625	1.625	1.625
E Track width	mm	1.306	1.306	1.306	1.306	1.306	1.306
F Ground clearance	mm	305	305	305	305	305	305
H Overall height	mm	2.465	2.465	2.465	2.465	2.465	2.465

All measurements with tyres 12.5-18

## PERFORMANCE FIGURES WITH FORK TINES

		C24	C23
Sales code		FEM IIA	FEM IIB
Fork tine type			
<b>Fork tine length</b>	<b>mm</b>	<b>1.200</b>	<b>1.200</b>
g Max. reach at ground level	mm	820	885
h Max. reach	mm	1.305	1.305
j Max. reach at max. stacking height	mm	640	640
k Max. height fork-carrier	mm	3.595	3.547
l Hinge pin height	mm	3.150	3.150
m Max. stacking height	mm	3.015	2.890
n Height of forks at maximum reach	mm	1.472	1.350
Max. tipping load, straight	kg	3.080	3.070
Max. tipping load, articulated	kg	2.650	2.670
Max. payload as per EN 474-3, 80%	kg	2.120	2.135
Max. payload as per EN 474-3, 60%	kg	1.590	1.600
Weight in working order with fork tines	kg	4.980	4.985

