BUCKET CAPACITY 8.7 -9.4 m³ 11.4-12.3 yd3

KOMATSU[®] **WA700**-3



Photo may include optional equipment.

The Answer for Higher Reliability and



Proven Power

The field-proven Komatsu six-cylinder, direct-injection turbo-charged SAA6D-170E-3 engine has all the capability needed for today's tough operations. This engine is EPA Tier 2 and EU Stage 2 emissions certified.

Horsepower 502kw 672HP @2,000RPM

Reliable Power Train

The engine, torque converter and transmission, as well as the hydraulic equipment and electrical parts, undergo strict quality control checks, ensuring enhanced reliability and durability.

Durable Bucket

Komatsu buckets are manufactured using high-tensile steel with replaceable welded wear plates for extended bucket life. Sufficient strength has been incorporated into the bucket bottom corners, side edges and spill guard ends for increased durability.

Bucket capacity Excavating bucket **8.7** m³(11.4cu.yd) General-purpose bucket **9.4** m³(12.3cu.yd)

Large Dumping Clearance

The WA700-3 is designed with ample dumping clearance for dump truck loading.

High Breakout Force

Komatsu wheel loaders use high-tensile steel for Z-bar loader linkage to give maximum rigidity, ensuring durability for high breakout force. Sealed loader linkage pins extend greasing intervals.

Excellent Stability

The WA700-3 has a wide tread 3,000mm (9'10") and the longest wheelbase in its class 4,800mm (15'9"), for maximum machine stability.

Focus on Operator Comfort and



AJSS (Advanced Joystick Steering System)(Optional)

The most suitable steering system for wheel loader operation should be both smooth and effortless to operate. With this in mind, using its hydraulic and electronic control technology, Komatsu has created AJSS. This system allows the machine operator to articulate the machine proportionally with the angle of the control joystick. He can actually develop a "feel" for the steering articulation and thus increase his operation efficiency.



Transmission forward/reverse and shift control switches are mounted on the joysticks.

Faster Pile-Penetration & Scooping

A kick-down switch down-shifts the transmission from forward 2nd to 1st gear for increased rim pull, hence improved bucket filling. When the direction control lever is set to reverse, it automatically up-shifts from 1st to 2nd gear, reducing cycle time.



Model shown may include optional equipment.

Ergonomically-Designed Controls

All controls are ergonomically designed to minimize operator fatigue. The steering wheel and instrument panel are similar to those of a car. The bucket and boom controls have PPC valves and short-travel levers to reduce operator effort. With the electrically-controlled transmission, direction and gearshift control levers can be finger-operated while holding the steering wheel with the same hand, allowing instant, positive direction and gearshift changes.

Comfortable Operator's Seat

The operator's seat has a reclining, air suspension desigh with headrest to support the operator comfortably during long periods of operation. Also, air suspension makes adjusting the seat height easy.

Easy Maintenance

Smooth Electronic Automatic Transmission (Optional)

With the electronic automatic transmission, you can always enjoy the optimum speed for the machine conditions. Clutch engagement during gear shifting is smooth, so that time lag and shock are small and ride comfort is ensured. When ascending or descending a slope or while operating, the automatic transmission can easily be set to manual shift by using the switch.



Tiltable Steering Column & One-Glance Monitors

The steering column can be easily tiltadjusted to the most comfortable position with a lever. Together with the twospoke steering wheel design, this guarantees better vision of the monitors.



Stair Light (Optional)

The stair light, which illuminates the rear access stairs for about a minute, is operated by a switch inside the cab, regardless of ignition key position.

Roomy, Quiet Cab With Power Windows

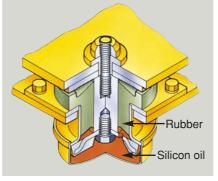
The cab is large, with a spacious interior and power windows. Also, a wide viewing angle is guaranteed because the cab is pillarless. By adopting a high-capacity air conditioner, Komatsu ensures operator comfort, no matter the exterior conditions. Another features designed with operators in mind is a lunchbox storage space.



Low Vibration & Noise

The cab rests on Komatsu viscous damping mounts (rubber and silicon oil) to reduce vibration and noise. All hydraulic equipment is mounted on high-resistance rubber to further reduce vibration and noise.

Viscous damping mounts



Auto-Greasing System (Optional)

The periodic lubrication points, except for the drive shaft, are greased automatically according to a preset amount and interval. Quick-change grease canisters make replacement easy and clean.

Simple Checks, Easy Maintenance

The main monitor and the maintenance monitor (EDIMOS II) are neatly arranged on the instrument panel to give a quick, clear reading of machine functions at all times. The main monitor also has a diagnostic function.



High-Quality Paint

Most exterior plates are treated with a cationic electro-deposition undercoat and melamine baked final coating for rust resistance and longer service life.

Maintenance-Free Braking System

Service brakes employ two hydraulically-actuated independent circuits for increased safety. The brakes are adjustment-free, fully-sealed, wet multiple-disc units, preventing intrusion of dirt and dust. Since the brake system does not use air, it provides many features such as absence of condensation, dependable braking even in cold conditions, no need for drainage, and rust-free piping. What's more, charging time after engine starting is drastically shortened and pedal depressing effort is reduced.



SPECIFICATIONS

No.of cylinders	Water-cooled, 4-cycle Turbocharged and aftercooled 6 170mm x 170mm 6.69" x 6.69"
Flywheel horsepower	502 kW 672 HP (SAE J1349) 502 kW 682 PS (DIN 6270)
Rated RPM	2,000 RPM
Fuel system	Direct injection
Governor	
Lubrication system:	
Lubrication method	
Air cleaner	Dry type with double elements and dust evacuator, plus dust indicator

EPA Tier 2 and EU Stage 2 emissions certified.

55 TRANSMISSION

Torque converter:

Туре		3-elem single	ent, single-sta phase	ige,
Transmissior	1:			
Туре		Full-po gear ty	wershift, plan pe	etary
Travel speed	: km/h MPH	0,	•	
Measured	with 40/65-3	39PR tires		
	1st	2nd	3rd	4th
Forward	6.4 4.0	11.1 6.9	18.7 11.6	30.0 18.6
Reverse	7.1 4.4	12.3 7.6	20.5 12.7	32.3 20.1

AXLES & FINAL DRIVES

Drive system	Four-wheel drive
Front	Fixed, full-floating
Rear	Center-pin-support, full-
	floating 22° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Straight bevel gear
Final reduction gear	
	reduction, oil bath

BRAKES

Service brakes	4-wheel, systematic brake for front/rear wheel, hydraulically actuated, wet multiple-disc
Parking brake	Dry-disc type, hydraulic released, spring applied on front drive shaft
Emergency brake	Uses parking brake

STEERING SYSTEM

Туре	Articulated type, full-
	hydraulic power steering
Steering angle	40° each direction
Minimum turning radius at the	
center of outside tire	8,095 mm 26'7"



HYDRAULIC SYSTEM

Steering system: Hydraulic pump Capacity Relief valve setting Hydraulic cylinders:	203 ltr./min. 53.6 U.S. gal/min. at rated RPM
Type No. of cylinders	
Bore x stroke	
Loader control:	
Hydraulic pump Capacity	Piston pump 405 ltr./min. 107.0 U.S. gal/min. at rated RPM
Relief valve setting Switch pump	320 kg/cm ² 4,550 PSI
Capacity	
Hydraulic cylinders: Type	0
No. of cylinders-bore x stro	
Lift cylinder	
Bucket cylinder	1-280 mm x 729 mm 11.0" x 28.7"
Control valve Control positions:	2-spool type
Boom	mp 2.5 sec.

ROPS & CAB

Structure complies with ISO 3471 and SAE J1040c ROPS (Roll-Over Protective Structure) standards, as well as ISO 3449 FOPS (Falling Object Protective Structure) standards. The cab is mounted on viscous damper and well insulated.

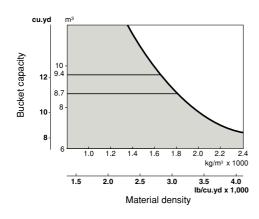
SERVICE REFILL CAPACITIES

Cooling system	. 209 Itr. 55.2 U.S.gal
Fuel tank	. 1,100 ltr. 290.6 U.S.gal
Engine	52 ltr. 13.7 U.S.gal
Hydraulic system	. 470 ltr. 124.2 U.S.gal
Axle (each front and rear)	245 ltr. 64.7 U.S.gal
Torque converter and transmission	. 105 ltr. 27.7 U.S.gal

TIRES 20

Select ideal tires depending on job requirements. 40/65-39-36 PR (L-5) 41.25/70-39-34 PR (L-5) 45/65-R39 (L-5)

BUCKET SELECTION



	Capacity Heaped m ³ cu.yd	Struck	Bucket width* mm ft.in	Bucket weight kg lb	Breakout force kg lb
Excavating bucket (straight edge) with tipteeth	8.7	7.6	4,330	6,770	64,700
	11.4	9.9	14'2"	14,925	142,640
Excavating bucket (spade nose) with tipteeth	8.7	7.6	4,330	7,150	52,700
	11.4	9.9	14'2"	15,760	116,180
General-purpose bucket (straight edge) with tipteeth	9.4	8.2	4,330	7,150	62,400
	12.3	10.7	14'2"	15,760	137,570
			*Exc	luding tire	protectors

Operating weight kg lb Static tipping load kg lb Straight 40° full turn Tires/Buckets I Ш Ш Ш Ш Ш Ш Т T **46,400** 102,290 **40,730** 89,790 70,620 71,000 71,000 46,050 46,700 40,400 41,080 40/65-39-36PR(L-5) 155,690 156,530 156,530 101,520 102,955 89,070 90,565 71.220 71.600 71.600 46.830 46.480 47,130 41.100 40.750 41.450 41.25/70-39-34PR(L-5) 157,850 103,900 90,610 157,010 157,850 103,240 102,470 89,840 91,380 **47,460** 104,630 **41,400** 91,270 71,700 72,080 72,080 47,160 46,810 41,070 41,750 45/65-R39(L-5) 158,070 158,910 158,910 103,970 103,200 90,540 92,040

• All dimensions, weights and perfomance values based on SAE J732c and J742b standards.

• Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, front half fenders, tip type teeth and operator. Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments.

Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

I Fxc eda

II Exc

III Ger

WEIGHT CHANGES	Change in operating weight	Change in t Straight	ipping load Full turn
Remove ROPS canopy	– 1,050 kg – 2,315 lb -	- 965 kg -2,130 lb	- 850 kg −1,870 lb
Remove steel cab	- 430 kg - 950 lb -	- 315 kg – 690 lb	- 275 kg - 610 lb

- 890 kg - 1,960 lb

Remove teeth and adapter

STANDARD EQUIPMENT

- 672HP/2,000RPM KOMATSU SAA6D170E-3 diesel engine
- C200 battery
- 50A alternator
- Wet type disc brake
- Boom kickout
- Electronic display/monitoring system
- Electrically controlled transmission
- Tiltable steering wheel
- Engine key stop
- ROPS bracket
- Speedometer
- Service meter
- Ladders (right & left) •
- Head lamps
- Rear working lights
- Turn indicators (front & rear)
- Horn
- Fan guard
- Counterweight (2,500kg) 4x40/65-39-36PR(L-5) tubeless tire
- Inside rearview mirror
- Emergency brake
- Front fender
- Rear half fender
- Floor mat
- Rear view mirror
- Bucket positioner

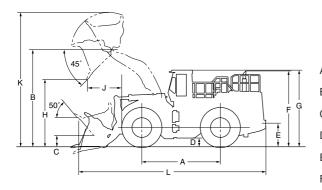
OPTIONAL EQUIPMENT

+1,150 kg +2,535 lb

+1,005 kg +2,220 lb

- Bucket teeth (tip type)
- Bucket corner teeth
- ROPS canopy
- Air conditioner
- Emergency steering
- Vandalism protection kit
- Fire extinguisher
- Tool kit
- Ordinary spare parts
- Heater and defroster
- Seat belt
- Sun visor
- Back-up lamp
- Car radio
- Steel cab
- (included front wiper, windshield washer, power window)
- Stair light
- AJSS (Advanced Joystick Steering System)

DIMENSIONS



		40/65-39-36(L	-5) tires	45/65-R39(L-	5) tires
	Tread	3,000	9'10"	3,060	10'
	Width over tires	4,040	13'3"	4,160	13'8"
A	Wheelbase	4,800	15'9"	4,800	15'9"
В	Hinge pin height,max. height	5,990	19'8"	6,035	19'10"
С	Hinge pin height, carry position	720	2'4"	765	2'6"
D	Ground clearance	540	1'9"	585	1'11"
Е	Hitch height	1,530	5'	1,575	5'2"
F	Overall height, top of the stack	4,825	15'10"	4,870	16'
G	Overall height, ROPS canopy	4,790	15'9"	4,835	15'10"

Measured with 40/65-39-36PR(L-5) tires

Bu	ickets	I	II	III
H. Dumping clearance, max. height and 45° dump angle *		4,280 14'1"	4,040 13'3"	4,195 13'9"
J. Reach at max. height and 45° dump angle *		1,890 6'2"	2,135 7'	1,975 6'6"
Reach at 2130 mm (7') cut edge clearance and 45° dump and	gle	2,770 9'1"	2,985 9'10"	2,850 9'4"
Reach with arm horizontal and bucket level		3,500 11'6"	3,840 12'7"	3,620 11'10"
K. Operating height (fully raised)		8,170 26'10"	8,170 26'10"	8,320 27'3"
L. Overall length (with tipteeth)		12,160 39'11"	12,500 41'	12,280 40'3"
Loader clearance circle (bucket at carry, outside corner of bucket with t	tipteeth)	19,260 63'2"	19,230 63'1"	19,320 63'5"
		170 7"	170 7"	170 7"
Digging depth (with tipteeth)	10°	510 1'8"	570 1'10"	535 1'9"

(

*At the end of tooth

Measured with 40/65-R39(L-5) tires

Bu	ckets	I	II	Ш
H. Dumping clearance, max. height and 45° dump angle $$ *		4,325 14'2"	4,085 13'5"	4,240 13'11"
J. Reach at max. height and 45° dump angle *		1,890 6'2"	2,135 7'	1,975 6'6"
Reach at 2130 mm (7') cut edge clearance and 45° dump and	gle	2,770 9'1"	2,985 9'10"	2,850 9'4"
Reach with arm horizontal and bucket level		3,500 11'6"	3,840 12'7"	3,620 11'10"
K. Operating height (fully raised)		8,215 26'11"	8,215 26'11"	8,365 27'5"
L. Overall length (with tipteeth)		12,135 39'10"	12,475 40'11"	12,255 40'2"
Loader clearance circle (bucket at carry, outside corner of bucket with t	ipteeth)	19,260 63'2"	19,230 63'1"	19,230 63'5"
		125 4.9"	125 4.9"	125 4.9"
Digging depth (with tipteeth)	10°	465 1'6"	525 1'9"	490 1'7"

*At the end of tooth

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.

KOMATSU

(Unit:mm ft.in)