NET HORSEPOWER
502 kW **672 HP** @ 2000 rpm

OPERATING WEIGHT
71020 – 73000 kg
156,570 – 161,150 lb

BUCKET CAPACITY
8.0 - 9.4 m³ **10.5 – 12.3 yd³**

KOMATSU®

WA700-3

With Advanced Joystick Steering System (AJSS)

WA 700

WHEEL LOADER

Photos may include optional equipment.

GALEO

WALK-AROUND

Komatsu-integrated design for the best value, reliability, and versatility. Hydraulics, power train, frame, and all other major components are engineered and built by Komatsu. You get a machine whose components are designed to work together for higher production, greater reliability, and more versatility.

New easier access to engine for servicing. Large swing-out hood doors lock with cab key. Radiator grill is also hinged with radiator clean-out doors on both sides

Underhood mounted muffler provides operator with great rearward vision

Automatic transmission and kick-down switch are production enhancing, standard features

Rear lights mounted high out of harm's way

Check battery easily.
Low mount battery boxes for easy checking and servicing

The Komatsu SAA6D170-E-3, engine provides an output of 502 kW ***672 HP @ 2000 rpm*** for superior performance and productivity, and is Tier 2 EPA, EU and Japan emissions certified

Sight gauge for hydraulic tank
allows ground level check without opening the compartment

Rear-mounted fuel tank
allows for ground level fueling. Fuel tank prepared to accept Wiggins fast fuel fittings

Ground level grease bank lubrication reduces maintenance

WA700-3

NET HORSEPOWER
502 kW **672 HP** @ 2000 rpm

OPERATING WEIGHT
71020 - 73000 kg
156,570 - 161,150 lb

BUCKET CAPACITY
8.0 - 9.4 m^3
10.5 - 12.3 yd^3

Designed for better value through improved reliability and enhanced versatility. That's why the WA700-3 means value, and anything less is just another Wheel Loader.

New cab for increased operator productivity.
New operator's cab provides improved visibility with a pillarless flat glass windshield and power windows. A KAB air suspension seat with retractable seat belt keeps the operator comfortable

Special rubber-mounted cab for productivity. Special silicone-filled rubber cab mounts reduce vibration and noise that can fatigue the operator and reduce his efficiency

Service monitor with diagnostics including an air cleaner sensor keeps the operator informed. True three level monitoring provides the operator with prestart level checks, cautions, and warnings

Photos may include optional equipment.

New dual mode hydraulics
match system output to operating conditions and application

New Hensley 550 Bladesaver System™
offers full protection for the bucket lip and good digging performance while leaving a smooth quarry floor

Spade nose bucket capacity increased to 8.7 m^3 **11.4 yd^3**

Fully-hydraulic brake system
means less maintenance and more reliability

New Advanced Joystick Steering System (AJSS)
offers single lever control of steering, transmission range, direction and horn

GALEO

Komatsu's highly productive, innovative technology, environmentally friendly machines built for the 21st century.

OPERATOR'S COMPARTMENT

Ask the people who run one—they will tell you the operator's cab sets the Komatsu Wheel Loader apart from the others. That's a productivity feature you can't ignore. No matter how a machine specs out, or how much is promised for productivity, unless the operator can work a full shift without becoming fatigued, you will never get the full measure of promised productivity.

The cab improvements on the WA700-3 go beyond providing a large cab with a comfortable seat. Improvements include many production-enhancing standard features.The WA700-3 has the largest cab ever offered on a Komatsu wheel loader by 15%

New three-piece flat glass windshield provides the operator an unobstructed view of the working area and attachment. Power windows offer ventilation at the touch of a finger.

Cloth covered high-back bucket seat features air suspension with its own self-contained air compressor.

Two-door walk-through cab. Good for ventilation as well as easy entry and exit from either side of the cab.

Silicone-filled rubber mounts dampen noise and vibration, reduces fatigue caused by noise. Helps keep the operator productive longer.

Low-effort brake pedals actuate fully hydraulic brakes. Parking brake provides effective braking with the touch of a finger.

Steer with ease. Komatsu's Advanced Joystick Steering (AJSS) offers precise low-effort steering performance in demanding V-cycle applications. AJSS has proven popular with operators throughout the world on Komatsu's flagship wheel loader, the WA1200-3.

Kick-down switch is conveniently located on the boom lever. A simple motion of the thumb actuates this valuable productivity feature.

Easy shifting and directional changes. The multi-function steering lever also contains the transmission direction and range controls. Solid state electronics and conveniently located direction and gear shift controls make this possible. Standard automatic transmission allows automatic shifts in ranges two through four, keeping production high and manual shifting at a minimum.

At-a-glance instrument monitor. Travel data is mounted in front of the operator and is tilted for easy view, allowing the operator to easily check gauges and warning lights.

Cab Comforts

Value options for productivity and those little added touches that make work a little easier.

Keep cool, keep productive with a ***five-mode air conditioner.*** Thirteen strategically located vents direct cool air to the operator, maintaining productivity on even the hottest days.

There's nothing more refreshing than a cold drink on a hot day. The WA700-3 offers a large lunch box holder. The hot/cold box will keep a beverage cool on a hot day. That's something to look forward to at lunch or break-time.

Make the time go faster with an auto-tuning ***AM/FM cassette radio*** with a digital clock.

Five-mode air conditioner

Cool box

AM/FM cassette radio

KOMATSU DESIGNED POWER TRAIN

Engine

The **Komatsu SAA6D170-E-3** delivers the power and efficiency to get the job done quickly and cost effectively while meeting emission requirements.

The **SAA6D170-E-3** is an electronically controlled, water-cooled, four-stroke cycle, six-cylinder in-line, turbocharged and air-to-air aftercooled direct injection engine that produces high performance and excellent fuel economy.

Komatsu electronically controlled fuel system features continuously variable timing and higher injection pressure to control emissions and white smoke, improve cold-start performance, and allow higher torque rise.

SAA6D170-E-3 improvements include:

- Air-to-air-aftercooling
- Addition of a fuel cooler
- Larger radiator core
- Dual fuel filter option now standard

Large swing-out doors allow easy access to the engine and radiator for routine maintenance and cleaning.

Spin-on filters and easily accessible lubrication points mean reduced maintenance time and less chance of missing these important maintenance items. Extended 500 hour oil and filter change intervals reduce service time while minimizing waste oil disposal costs.

With a piston displacement of 23.15 ltr 1412 in³, the Komatsu SAA6D170-E-3 has a net flywheel horsepower of 502 kW 672 HP @ 2000 rpm.

Komatsu integrated design means components are matched to provide most efficient use of power whether you're working the face of a material bank or traveling with a loaded bucket.

Four-Speed Transmission

Provides maximum forward speed in fourth gear of up to 30.0 km/h **18.6 mph** and in reverse of 32.3 km/h **20.1 mph**. The transmission is a full power shift, planetary transmission.

Other features include:

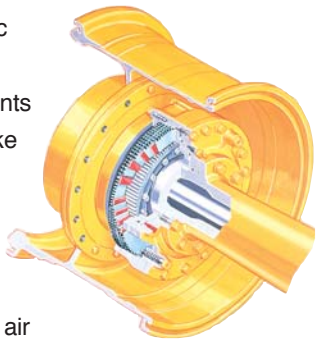
- Solid state electronic shifting control that reduces wear, increases reliability, and provides easy directional shifts.
- Fingertip-shifting from forward to reverse or from one gear to another.
- Four forward and four reverse gears to better match the cycle conditions. You get higher efficiency and better fuel economy.
- Standard automatic offers autoshift in ranges two through four to keep productivity high.

Consider this valuable feature for added productivity. Kick-down switch automatically downshifts with the touch of a finger from second to first when beginning the digging cycle. Automatically upshifts from first to second when reverse direction is selected. The result is increased rim pull for better bucket penetration and reduced cycle times for higher productivity.

Komatsu designed axles and final drives for rugged reliability and low maintenance. Axle shafts are full-floating, the front axle is fixed. The rear axle is a center-pin support design that provides a total oscillation of up to 22 degrees.

The differential reduction gear is a heavy-duty spiral bevel gear for strength and reliable performance. Rugged, outboard planetary final drives carry the total gear reduction of the drive train to the wheel which is mounted to the axle hub.

Wet, multi-disc brakes and fully hydraulic braking system mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed. Contaminants are kept out, reducing wear and resulting maintenance. Brakes require no adjustments for wear, meaning even lower maintenance. The parking brake is also an adjustment-free, dry disc mounted to the front driveline for high reliability and long life. Added reliability is designed into the braking system by the use of two independent hydraulic circuits, providing hydraulic back-up should one of the circuits fail. Full hydraulic brakes mean no air system to bleed, or the condensation of water in the system that can lead to contamination and corrosion.



Advanced Joystick Steering System (AJSS)

Komatsu's exclusive AJSS reduces operator fatigue and increases total productivity while achieving exceptional control in tight loading conditions. The seat-mounted controller allows a full range of adjustments for the most comfortable fit. The joystick provides a convenient, comfortable, efficient steering system for every operating condition. With AJSS the operator enjoys exceptional legroom and easy access in and out of the dual entry cab.

EASY MAINTENANCE

Servicing With a Smile

It would be better if most of us approached routine maintenance and service as something that made us smile. That's why Komatsu designed the WA700-3 Wheel Loader to make servicing as easy as possible. We know by doing this, routine maintenance and servicing are less likely to be skipped, which can mean a reduction in costly downtime later on. Here are some of the many service features found on the WA700-3.

- Large service doors provide easy access to the engine compartment.
- Ground Level Greasing—all grease points are easily reached from ground level, and grease banks are provided in strategic areas to reduce maintenance time.
- New radial seal dry-type air cleaner with safety element offers improved sealing and fast change-outs.
- Sight gauges allow for easy hydraulic level checks without risking system contamination.
- Full hydraulic brakes eliminate air system maintenance.
- Batteries are located in the counterweight for ground level access.
- Sealed Loader Linkage Pins—designed to keep grease contained longer, prevent the entrance of dust, thereby lengthening greasing intervals.
- Swing-out rear grill facilitates radiator cleaning.
- Repositioned hydraulic breather mounting allows easy access for quick service while protecting breathers from contamination.

The WA700-3 can be configured to load 35–65 ton haulers with room to spare.

SPECIFICATIONS

ENGINE

Model . . . . . Komatsu SAA6D170E-3
Type . . . . . Water-cooled, 4-cycle
Aspiration . . . . . Turbocharged, air-to-air aftercooled
Number of cylinders 6
Bore x stroke . . . . . 170 mm x 170 mm **6.7" X 6.7"**
Piston displacement . . . . . 23.15 ltr **1,412 in³**
Governor . . . . . Electrical, all-speed control
Horsepower rating @ 2000 rpm
Gross horsepower . . . . . 510 kW **684 HP**
Net flywheel horsepower . . . . . 502 kW **672 HP**

Fuel system . . . . . High pressure direct injection
Lubrication system:
Method . . . . . Gear pump, force lubrication
Filter . . . . . Full-flow
Air cleaner . . . . . Radial seal dry-type with safety element, automatic dust evacuator, and dust indicator on monitor

TRANSMISSION

Torque converter . . . . . Three-element, single-stage, single-phase
Transmission . . . . . Full power shift, automatic planetary gear

Travel Speed*	Forward		Reverse	
1st	6.4 km/h	**4.0 mph**	7.1 km/h	**4.4 mph**
2nd	18.7 km/h	**6.9 mph**	12.2 km/h	**7.6 mph**
3rd	18.7 km/h	**11.6 mph**	20.5 km/h	**12.7 mph**
4th	30.0 km/h	**18.6 mph**	32.3 km/h	**20.1 mph**

*Measured with 40/65-39, 36PR (L5) tires

AXLES AND 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 . . . . . Planetary gear, single reduction, oil bath

BRAKES

Service Brakes . . . . . Hydraulically articulated, wet-disc brakes actuate on four wheels

Parking Brake . . . . . Dry-disc, hydraulically-released, spring-applied on front axle input shelf

BUCKET CONTROLS

Control positions:
Boom . . . . . Raise, hold, lower, and float
Bucket . . . . . Rollback, hold, and dump

HYDRAULIC SYSTEM

Capacity (discharge flow) @ engine rated rpm:
Loader pump . . . . . 405 ltr/min **107 U.S. gal/min**
Steering pump . . . . . 203 ltr/min **53.6 U.S. gal/min**
Switch pump . . . . . 203 ltr/min **53.6 U.S. gal/min**

Relief valve setting:
Loader . . . . . 320 kg/cm² **4,550 psi**
Steering . . . . . 320 kg/cm² **4,550 psi**

Control valve:
A two-spool open center

Hydraulic cylinders	Number of cylinders	Bore		Stroke	
Boom	2	225 mm	**8.9"**	1196 mm	**47.1"**
Bucket	1	280 mm	**11.0"**	729 mm	**28.7"**
Steering	2	130 mm	**5.1"**	532 mm	**20.9"**

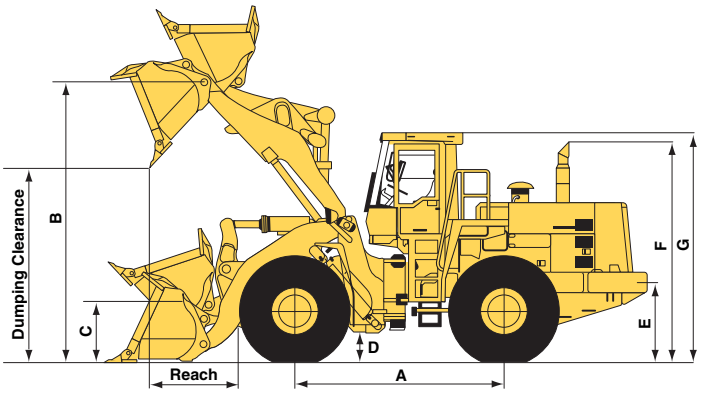
SERVICE REFILL CAPACITIES

Cooling system . . . . . 219 ltr **57.9 U.S. gal**
Fuel tank . . . . . 1100 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**

STEERING SYSTEM

Type . . . . . Articulated, full-hydraulic power steering independent of engine rpm
Steering angle . . . . . 40° each direction
Turning radius outside corner of bucket with teeth or BOCE . . . . . 8280 mm **31'7"**

DIMENSIONS



	Tread		3030 mm	**9'11"**
	Width over tires		4080 mm	**13'5"**
A	Wheelbase		4800 mm	**15'9"**
B	Hinge pin height	Standard Boom	6030 mm	**19'9"**
	at Max. height:	High Lift Boom	6590 mm	**21'7"**
C	Hinge pin height	Standard Boom	760 mm	**2'6"**
	at carry position:	High Lift Boom	950 mm	**3'1"**
D	Ground clearance		580 mm	**1'11"**
E	Hitch height		1570 mm	**5'2"**
F	Overall height, top of stack		4865 mm	**16'0"**
G	Overall height ROPS cab		4830 mm	**15'10"**

All specs are with teeth and 41.25/75-39, 34PR (L5) tires, steel cab, ROPS canopy, lubricant, full fuel, optional counterweight, and operator.

		Straight Edge Rock With Teeth		Spade Nose Rock With Teeth		Spade Nose Rock With Teeth (HL)	
Bucket capacity	SAE rated	8.7 m^3	**11.4 yd^3**	8.7 m^3	**11.4 yd^3**	8.0 m^3	**10.5 yd^3**
	Struck	7.6 m^3	**9.9 yd^3**	7.6 m^3	**9.9 yd^3**	7.0 m^3	**9.2 yd^3**
Bucket width		4570 mm	**15'0"**	4570 mm	**15'0"**	4570 mm	**15'0"**
Bucket weight		6770 kg	**14,925 lb**	7150 kg	**15,760 lb**	6830 kg	**15,080 lb**
Static tipping loads	Straight	46830 kg	**103,240 lb**	46480 kg	**102,600 lb**	42330 kg	**93,440 lb**
	Full turn (40°)	41100 kg	**90,610 lb**	40770 kg	**90,000 lb**	36770 kg	**81,170 lb**
Dump clearance, maximum height and 45° dump angle		4320 mm	**14'2"**	4080 mm	**13'5"**	4685 mm	**15'4"**
Reach at **7'** 2130 mm and 45° dump angle		2995 mm	**9'10"**	3210 mm	**10'7"**	3530 mm	**11'7"**
Reach at maximum height and 45° dump angle		1890 mm	**6'2"**	2135 mm	**7'0"**	2120 mm	**6'11"**
Operating height	Fully raised	8210 mm	**26'11"**	8210 mm	**26'11"**	8665 mm	**28'5"**
Overall length	Bucket ground	12140 mm	**39'10"**	12480 mm	**40'11"**	13295 mm	**43'7"**
Turning radius*		9620 mm	**31'7"**	9615 mm	**31'6"**	9840 mm	**32'3"**
Digging depth	0°	130 mm	**5"**	130 mm	**5"**	145 mm	**6'0"**
	10°	470 mm	**1'7"**	520 mm	**1'8"**	530 mm	**1'9"**
Breakout force (bucket cylinder)		64700 kg	**142,640 lb**	52700 kg	**116,180 lb**	55800 kg	**123,180 lb**
Operating weight		71020 kg	**156,570 lb**	71400 kg	**157,410 lb**	73000 kg	**161,150 lb**

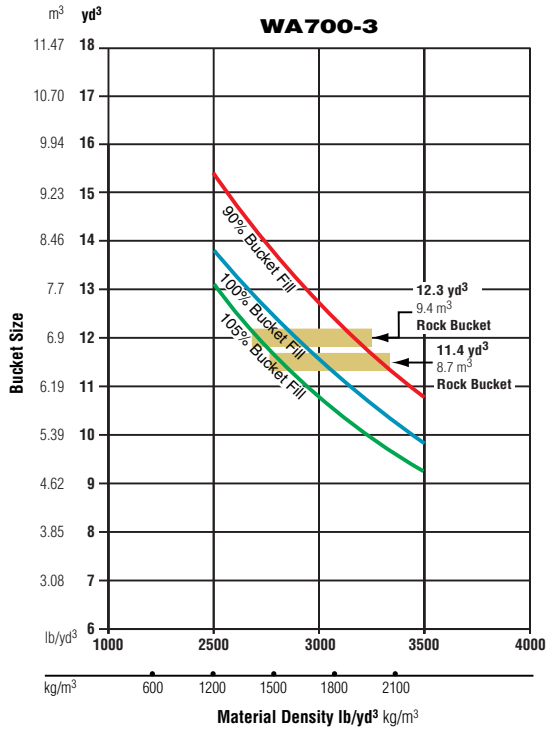
*Turning radius measured with bucket at carry position, outside corner of bucket with teeth.

- Specifications and ratings conform to all applicable standards recommended bythe Society of Automotive Engineers. SAE standard J732 JUN 92 and J742 FEB 85.
- Static tipping load and operating weight shown include 41.25/75-39, 34PR (L5) tires, enclosed cab, ROPS canopy, lubricant, full fuel tank, optional counterweight, and operator.
- Machine's stability and operating weight are affected by counterweight, tire size, and other weight changes to operating weights and static tipping load.

Weight Changes

	Change in Operating Weight			Change in Static Tipping Load					
				Straight			Full Turn (40°)		
Tires/Bucket	**S/E With Teeth**	**S/N With Teeth**	**S/N With Teeth (HL)**	**S/E With Teeth**	**S/N With Teeth**	**S/N With Teeth (HL)**	**S/E With Teeth**	**S/N With Teeth**	**S/N With Teeth (HL)**
45/65 R39 (L5)	71500 kg **157,630 lb**	71880 kg **158,470 lb**	73480 kg **161,995 lb**	47160 kg **103,970 lb**	46810 kg **103,198 lb**	42660 kg **94,049 lb**	41400 kg **91,271 lb**	41070 kg **90,543 lb**	37070 kg **81,725 lb**

BUCKET SELECTION GUIDE



This guide, representing bucket sizes not necessarily manufactured by Komatsu, will help you select the proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. Bucket fill factors represent the approximate amount of material as a percent of rated bucket capacity. Fill factors are primarily affected by material, ground conditions, breakout force, bucket profile, and the cutting edge of the bucket used.

Material (loose weight)	kg/m³	**lb/yd³**
Clay and gravel, dry	1420	**2,400**
Clay and gravel, wet	1540	**2,600**
Coal, anthracite, broken	1100	**1,850**
Coal, bituminous, broken*	830	**1,400**
Earth, dry, packed	1510	**2,550**
Earth, loam	1250	**2,100**
Earth, wet, excavated	1600	**2,700**
Granite, broken or large crushed	1660	**2,800**
Gravel, dry	1510	**2,550**
Gravel, dry 13 to 50 mm **1/2" to 2"**	1690	**2,850**
Gravel, pit run (graveled sand)	1930	**3,250**
Gravel, wet 13 to 50 mm **1/2" to 2"**	2020	**3,400**
Limestone, broken or crushed	1540	**2,600**
Phosphate rock	1280	**2,160**
Sand and gravel, dry	1720	**2,900**
Sand and gravel, wet	2020	**3,400**
Sand, dry	1420	**2,400**
Sand, wet	1840	**3,100**
Stone, crushed	1600	**2,700**
Topsoil	950	**1,600**

* Use 9.4 m³ **12.3 yd³** bucket furnished by outside vendor. Contact Komatsu Sales Engineering.

STANDARD EQUIPMENT

ENGINE AND RELATED ITEMS:

- Air cleaner, 2-stage dry radial seal type with auto dust evacuator
- Air intake extension
- Electric cut-off
- Engine, KOMATSU SAA6D170-E-3 turbocharged and air-to-air aftercooled, direct injection, Tier 2 emission certified, diesel
  Gross HP: 510 kW **684 HP** @ 2000 rpm
  Net HP: 502 kW **672 HP** @ 2000 rpm
- Exhaust pipe with sound suppression, glasswool
- Fan, blower
- Radiator, staggered core type

ELECTRICAL SYSTEM:

- Alternator, 75 ampere, 24V
- Back-up alarm
- Back-up light
- Batteries, 200 Ah, 2 x 12V
- Battery auto-disconnect switch
- Horn, electric
- Instrument monitor panel with speedometer
- Starting motor, 2 x 7.5 kW, 24V direct electric
- Lights:
  - stop and tail
  - turn signal (2 front, 2 rear) with hazard switch
  - working (4 front fender mount, 2 front cab mount, 2 rear grill mount)

POWER TRAIN AND CONTROLS:

- Axles full floating with conventional differentials
- Brakes, parking, dry disc
- Brakes, service, wet, multiple-disc, axle by axle
- Transmission, planetary F4–R4
- Transmission control, electric with kick-down switch
- Automatic transmission shift control

OPERATOR ENVIRONMENT:

- ROPS/FOPS canopy
- Cab, steel (RH and LH entrance)
  - Air conditioner, heater, defroster, and pressurizer
  - Cigarette lighter/ashtray
  - Dome light
  - Floormat
  - Wiper/washer front and rear, front intermittent
  - Lunch box holder
  - Power windows
  - Rearview mirrors, inside cab mount/outside mount (LH and RH)
  - Rear underview mirror
  - Seat, air suspension, reclining, with armrests (fabric)
  - Seat belt, 78 mm **3"** retractable
  - Steering, Advanced Joystick Steering System (AJSS) single lever controlled steering system
  - Sun visor

MAIN MONITOR—ELECTRONIC DISPLAY:

- Central warning lamp for check items
- Central warning lamp for caution items
- Head lamp high beam pilot
- Speedometer, MPH
- Service meter
- Transmission shift indicator
- Turn signal pilot

MAINTENANCE MONITOR—ELECTRONIC DISPLAY:

- Air cleaner check
- Battery charge
- Brake oil pressure
- Engine oil level
- Engine oil pressure
- Engine water level
- Engine water temperature
- Fuel gauge
- Parking brake warning light
- Torque converter temperature

HYDRAULICS AND CONTROLS:

- Active power-up dual hydraulic speed system
- 2-valves for boom and bucket controls with Pressure Proportional Control (PPC)
- Lift cylinders and bucket cylinder

VANDALISM PROTECTION:

- Battery box lock
- Caplock and cover for fuel tank
- Radiator, filler lock, and cover

OTHER STANDARD EQUIPMENT:

- Air horn
- Boom kick-out, automatic
- Bucket leveler, automatic
- Counterweight, standard and additional, 3365 kg **7,418 lb**
- Front fenders (LH and RH)
- Fuel filter arrangement for poor fuel
- PM service kit
- Rear steps (LH) with partial fenders
- Tow hitch

NOTE: Tires and rims are not included as standard equipment.
Rims must be ordered as a required attachment.

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT:

- Auxiliary steering, ground driven with indicator
- AM/FM stereo radio cassette

TIRES ONLY (TUBELESS) SET OF FOUR:

- 41.25/70-39, 36PR (L5) Bias tires
- 45/65, R39, (L4) Raidal tires
- 45/65, R39, (L5) Radial tires

RIMS ONLY, LESS TIRES:

- Rims only for 41.25/70-39 tires
- Rims only for 45/65-39 tires

BUCKETS:

- Straight edge rock, 8.7 m^3, bare **11.4 yd^3**
- Spade nose rock, 8.7 m^3 **11.4 yd^3** with Hensley 550 Bladesaver edge system™

AUXILIARY EQUIPMENT:

- Transmission guard
- Wiggins fast fuel system

AESS637-02 DK08(1M)CCI 08/05 (EV-1)

KOMATSU®

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KOMATSU ADVANTAGE EXTENDED COVERAGE

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