

KOMATSU®

WA430-5

BUCKET CAPACITY
3.1–3.7 m³
4.1–4.8 yd³

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Photo may include optional equipment.

WA430-5 Wheel Loader

WALK-AROUND

High Productivity & Low Fuel Consumption

- Powerful engine
- Ultra-low fuel consumption
- Dual-mode engine power select system
- Transmission mode select system
- Dual speed hydraulic system
- Superior dumping clearance and reach
- Long wheelbase and 40 degree articulation

See page 4.

Excellent Operator Environment

- Automatic transmission with selectable modes
- Electrically controlled transmission lever
- Fingertip control levers
- Pillar-less large ROPS/FOPS cab
- Easy entry/exit, rear-hinged doors
- Telescopic/tilt steering column

See pages 8 and 9.



Harmony with Environment

- EPA Tier 2 and EU Stage 2 emissions certified
- Low fuel consumption

Increased Reliability

- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Maintenance-free, fully hydraulic, wet disc service and parking brakes
- All hydraulic hoses use flat face O-ring seals
- Cathion electrodeposition process is used to apply primer paint
- Powder coating process is used to apply on main structure
- Sealed DT connectors for electrical connections

See page 6.

NET HORSEPOWER
162 kW 217 HP @ 2000 rpm

OPERATING WEIGHT
18340– 18555 kg
40,430– 40,900 lb

BUCKET CAPACITY
3.1 – 3.7 m³
4.1 – 4.8 yd³



Photo may include optional equipment.

Easy Maintenance

- “EMMS” (Equipment Management Monitoring System)
- Reversible radiator fan (optional)
- Swing-out aftercooler and oil coolers
- Prolonged engine oil change interval
- Ground check for windshield washer tank and coolant tank
- Easy access, gull-wing type engine side doors

See page 7.



Maximum Dumping Clearance and Reach



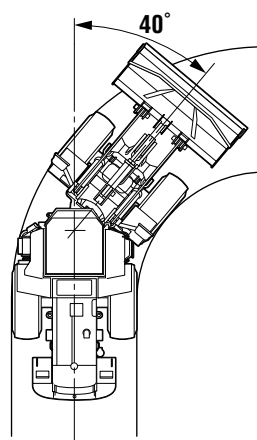
Dumping Clearance: 3125 mm 10'3"
Dumping Reach: 1110 mm 3'8"
 (3.7 m³ 4.8 yd³ bucket with B.O.C.)

The long lift arms provide high dumping clearances and maximum dumping reach. The operator can even level loads on the body of a dump truck easily and efficiently.

Long Wheelbase/Articulation Angle of 40°

The widest tread in class and the long wheelbase provide improved machine stability in both longitudinal and lateral directions. Since the articulation angle is 40°, the operator can work efficiently even in the tightest job sites.

Tread	2200 mm	7'3"
Wheelbase	3350 mm	11'0"
Minimum turning radius (center of outside tire)	5700 mm	18'8"

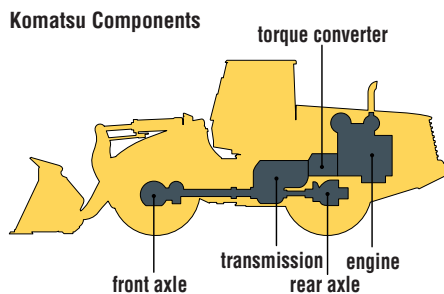


INCREASED RELIABILITY

Komatsu Components

Komatsu manufactures the engine, torque converter, transmission, hydraulic units, electric parts, and even each bolt on this wheel loader.

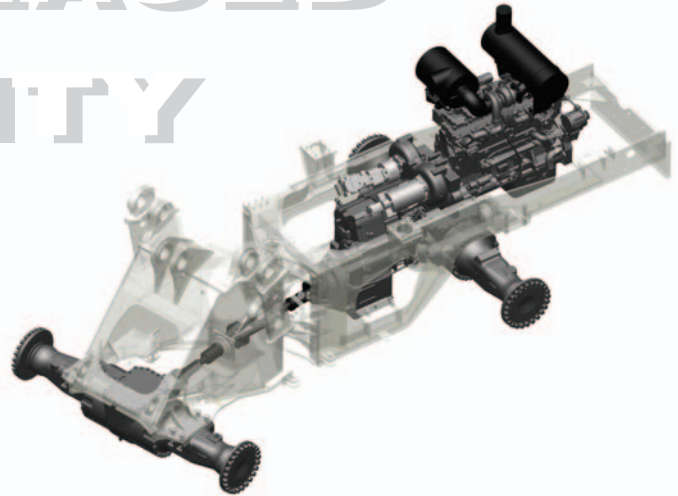
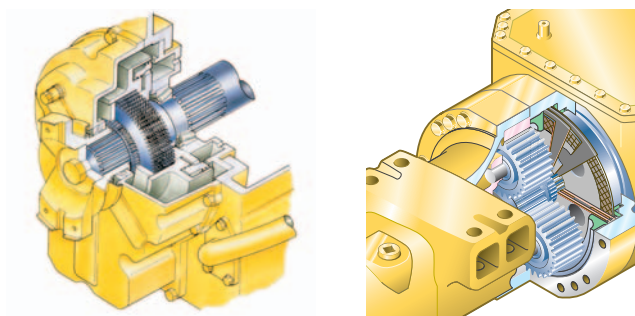
Komatsu loaders are manufactured with an integrated production system under a strict quality control system.



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 new parking brake is also an adjustment-free, wet multi-disc for high reliability and long life.

Added reliability is designed into the braking system by the use of two independent hydraulic circuits. Provides hydraulic backup should one of the circuits fail.

Fully hydraulic brakes mean no air system to bleed, or the condensation of water in the system that can lead to contamination, corrosion, and freezing.

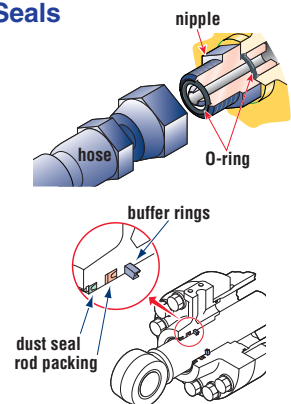


High-rigidity Frames

The front and rear frames have high rigidity to bear twisting and bending loads applied repeatedly to the loader body. Both upper and lower center pivot bearings are tapered roller bearings having high durability. The structure is similar to those of large-sized loaders and the reinforced loader linkage also ensures high rigidity.

Flat Face-to-Face O-Ring Seals

Flat face-to-face O-ring seals are used to securely seal all hydraulic hose connections and to prevent oil leakage. In addition, buffer rings are installed to the head side of the all-hydraulic cylinders to lower the load on the rod seals and maximize the reliability.



Cathion Electrodeposition Primer Paint/ Powder Coating Final Paint

Cathion electrodeposition paint is applied as a primer paint and powder coating is applied as topcoat to the exterior metal sheet parts. This process results in a beautiful rust-free machine, even in the most severe environments. Some external parts are made of plastic providing long life and high impact resistance.

Sealed DT Connectors

Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, water resistance and dust resistance.

EASY MAINTENANCE

EMMS (Equipment Management Monitoring System)

Monitor is mounted in front of the operator for easy view, allowing the operator to easily check gauges and warning lights.



A specially designed two-spoke steering wheel allows the operator to easily see the instrument panel.

Maintenance Control and Troubleshooting Functions

- **Action code display function.** If the loader has any troubles, the monitor displays action details on the character display at the center bottom of the monitor.
- **Monitor function.** Controller monitors engine oil level, pressure, coolant temperature, air cleaner clogging, etc. If controller finds abnormalities, all of these are displayed on LCD.
- **Replacement time notice function.** Monitor informs replacement time of oil and filters on LCD when it reaches replacement intervals.
- **Trouble data memory function.** Monitor stores abnormalities for effective troubleshooting.

Reversible Cooling Fan (optional) and Swing-out Cooler Elements



If the machine is operating in adverse conditions, the operator can reverse the hydraulic cooling fan from inside the cab by turning on a switch on the control panel. The coolers can also swing out for easy cleaning.



Gull-wing Type Engine Side Doors Open Wide

The operator can open and close each gull-wing type engine side door easily with the assistance of a gas spring to perform daily service checks from the ground.

Lengthened Maintenance Interval

Lengthened engine oil replacement interval:
250 H → 500 H

Lengthened drive shaft greasing interval:
1,000 H → 4,000 H

OPERATOR ENVIRONMENT

Easy Operation

Automatic Transmission with ECMV

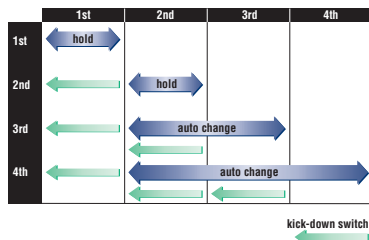
Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV (Electronically Controlled Modulation Valve) system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.

- **Kick-down**

switch: Consider this valuable feature for added productivity. With the touch of a finger, the kick-down switch

automatically downshifts from second to first when beginning the digging cycle. It automatically upshifts from first to second when the direction control lever is placed in reverse. This results in increased rim pull for better bucket penetration and reduced cycle times for higher productivity.

- **Hold switch:** Auto shift is selected and if the operator turns on this switch when the lever is at the 3rd or 4th gear speed position, the transmission is fixed to that gear speed.



Variable Transmission Cut-off

The operator can adjust the transmission cut-off connected to the left brake pedal with the switch near the operator's seat to set the brake/cut-off point for easier operation and higher operating performance in variable operating conditions.

- High cut-off pressure for digging operations.
- Low cut-off pressure for truck-loading operations.

Telescopic/Tilt Steering Column

The operator can tilt and telescope the steering column to provide a comfortable working position.



Fingertip Work Equipment Control Lever

New PPC control levers are used for the work equipment. The operator can easily operate the work equipment with fingertip control, reducing operator fatigue and increasing controllability.



Electronically Controlled Transmission Lever



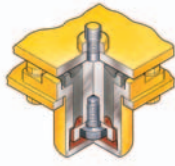
Easy shifting and directional changes with Komatsu two-lever electronic shifting. Change direction or shift gears with a touch of the fingers without removing the shifting hand from the steering

wheel. Solid state electronics and conveniently located direction and gear shift controls make this possible. Automatic shifts in ranges two through four keep production high and manual shifting at a minimum.

Comfortable Operation

Low-noise Design

The large cab is mounted with Komatsu's unique ROPS/FOPS viscous mounts. The low-noise engine, hydraulically driven fan, and hydraulic pumps are mounted with rubber cushions, and the cab sealing is improved to provide a quiet, low-vibration, dustproof with pressurizing, and comfortable operating environment.



Pillar-less Large Cab

A wide pillar-less flat glass provides excellent front visibility.



The wiper arm covers a large area to provide great visibility even on rainy days.

The cab area is the largest in its class providing maximum space for the operator.

Rear-hinged Full Open Cab Door

The cab door hinges are installed to the rear side of the cab providing a large opening angle for the operator to enter and exit. The steps are designed like a staircase, so that the operator can get on and off the cab easily.



Emergency Brake

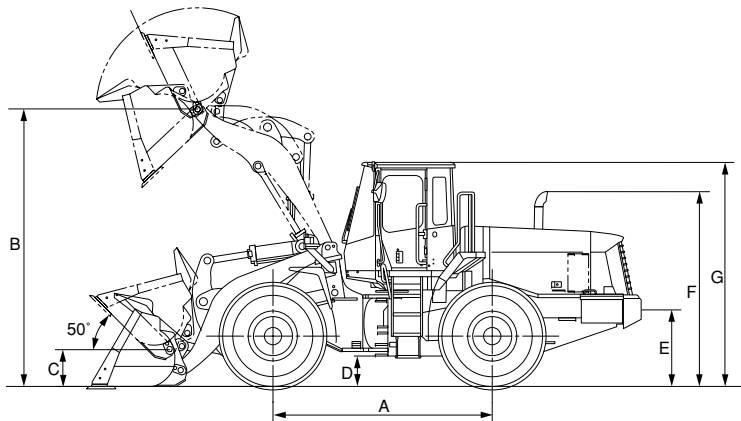
If the brake oil pressure drops, the warning lamp flashes and the warning buzzer sounds intermittently. If the brake pressure drops lower, the parking brake is applied providing a double safety system.





DIMENSIONS

Measured with 23.5-25-16PR (L3) tires



Tread	2200 mm	7'3"
Width over tires	2820 mm	9'3"
A Wheelbase	3350 mm	11'0"
B Hinge pin height, max. height	4250 mm	13'11"
C Hinge pin height, carry position	520 mm	1'8"
D Ground clearance	460 mm	1'6"
E Hitch height	1150 mm	3'9"
F Overall height, top of the stack	2965 mm	9'9"
G Overall height, ROPS cab	3380 mm	11'1"

	General Purpose Buckets		Excavating Buckets		
	Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth
Bucket capacity: heaped	3.7 m³ 4.8 yd³	3.5 m³ 4.6 yd³	3.3 m³ 4.3 yd³	3.3 m³ 4.3 yd³	3.1 m³ 4.1 yd³
struck	3.2 m³ 4.2 yd³	3.0 m³ 3.9 yd³	2.8 m³ 3.7 yd³	2.8 m³ 3.7 yd³	2.6 m³ 3.4 yd³
Bucket width	3050 mm 10'0"	3065 mm 10'1"	3050 mm 10'0"	3065 mm 10'1"	3065 mm 10'1"
Bucket weight	1745 kg 3,847 lb	1670 kg 3,682 lb	1835 kg 4,045 lb	1885 kg 4,156 lb	1760 kg 3,880 lb
Dumping clearance, max. height and 45° dump angle*	3125 mm 10'3"	3000 mm 9'10"	3175 mm 10'5"	3055 mm 10'0"	3055 mm 10'0"
Reach at max. height and 45° dump angle*	1110 mm 3'8"	1210 mm 4'0"	1055 mm 3'6"	1155 mm 3'9"	1155 mm 3'9"
Reach at 2130 mm (7') clearance and 45° dump angle	2615 mm 8'7"	2660 mm 8'9"	2585 mm 8'6"	2630 mm 8'8"	2630 mm 8'8"
Reach with arm horizontal and bucket level	3425 mm 11'3"	3585 mm 11'9"	3350 mm 11'0"	3505 mm 11'6"	3505 mm 11'6"
Operating height (fully raised)	5825 mm 19'1"	5825 mm 19'1"	5745 mm 18'10"	5745 mm 18'10"	5745 mm 18'10"
Overall length	8375 mm 27'6"	8530 mm 28'0"	8295 mm 27'3"	8455 mm 27'9"	8455 mm 27'9"
Loader clearance circle (bucket at carry, outside corner of bucket)	13440 mm 44'1"	13530 mm 44'5"	13370 mm 43'10"	13485 mm 44'3"	13485 mm 44'3"
Digging depth: 0°	120 mm 4.7"	135 mm 5.3"	120 mm 4.7"	135 mm 5.3"	135 mm 5.3"
10°	345 mm 1'2"	390 mm 1'3"	335 mm 1'1"	375 mm 1'3"	375 mm 1'3"
Static tipping load: straight	13955 kg 30,765 lb	14030 kg 30,930 lb	13865 kg 30,565 lb	13815 kg 30,455 lb	13940 kg 30,730 lb
40° full turn	12135 kg 26,750 lb	12210 kg 26,920 lb	12045 kg 26,555 lb	11995 kg 26,445 lb	12120 kg 26,720 lb
Breakout force	180 kN 18400 kgf 40,565 lb	195 kN 19900 kgf 43,870 lb	193 kN 19700 kgf 43,430 lb	195 kN 19900 kgf 43,870 lb	209 kN 21300 kgf 46,960 lb
Operating weight	18415 kg 40,600 lb	18340 kg 40,430 lb	18505 kg 40,795 lb	18555 kg 40,905 lb	18430 kg 40,630 lb

* At the end of tooth or B.O.C.

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

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, air conditioner and operator. Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Apply the following weight changes to operating weight and static tipping load.



WEIGHT CHANGES

Tires or attachments	Operating weight		Tipping load straight		Tipping load full turn		Width over tires		Ground clearance		Change in vertical dimensions	
	kg	lb	kg	lb	kg	lb	mm	ft in	mm	ft in	mm	ft in
23.5-25-16PR(L-3)	0	0	0	0	0	0	2820	9'3"	460	1'6"	0	0
26.5-25-16PR(L-3)	+420	+925	+330	+730	+290	+640	2940	9'8"	525	1'9"	+65	+3"
Remove ROPS cab with A/C	-730	-1,610	-690	-1,520	-600	-1,325	0	0	0	0	0	0
Install ROPS canopy	+430	+950	+395	+870	+345	+760	0	0	0	0	-30	-1"
Install additional counterweight	+325	+715	+880	+1,940	+735	+1,620						



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- Air conditioner
- Alternator, 50 A
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, **150 Ah**/2 x 12 V
- Boom kick-out
- Bucket positioner
- Counterweight
- Directional signal
- Engine, Komatsu SAA6D125E-3 diesel
- Engine shut-off system, electric
- Floor mat
- Front fender
- Lift cylinders and bucket cylinder
- Loader linkage with standard lift arm
- Main monitor panel with EMMS (Equipment Management Monitoring System)
- PPC fingertip control, two levers
- Radiator mask, lattice type
- Rearview mirror
- Rear window washer and wiper
- ROPS/FOPS cab
- Seat belt
- Seat, suspension type with reclining
- Service brakes, wet disc type
- Starting motor, **7.5 kW**/24 V
- Steering wheel, tiltable
- Sun visor
- Swing-out aftercooler and oil cooler
- Tires (23.5-25-16PR, L3 tubeless) and rims
- Transmission, 4 forward and 4 reverse
- Water separator



OPTIONAL EQUIPMENT

- 3-spool valve
- Additional counterweight
- Additional fuel filter
- AM/FM radio
- Brake cooling system
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt-on type)
- Deluxe suspension seat
- ECSS (Electronically Controlled Suspension System)
- Emergency steering (SAE)
- Engine pre-cleaner with extension
- High lift arm
- Hydraulic-driven fan with reverse rotation
- KOMTRAX
- Limited slip differential (F&R)
- Log grapple
- Ordinary spare parts
- Power train guard
- Remote grease (lift arm pivot pin)
- ROPS/FOPS canopy
- Tool kit
- Vandalism protection kit
- Vinyl suspension seat

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