BUCKET CAPACITY 3.1-4.6 m³ **4.1-6.0 yd³**

KOMATSU® WA430-5



WHEEL LOADER



Photo may include optional equipment.

WA430-5 Wheel Loader

MATIX-YHONID

Excellent Operator Environment

- Automatic transmission with selectable modes
- Low-noise designed cab (option)
- Electrically controlled transmission lever
- Fingertip control levers
- Pillar-less large ROPS/FOPS cab (option)

KOMATSU

- Easy entry/exit, rear-hinged doors
- Telescopic/tilt steering column
- See pages 8 and 9.

Increased Reliability

- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Maintenance-free, fully hydraulic, wet disc service and parking brakes

GALED

- All hydraulic hoses use flat face O-ring seals
- See page 6.

- connections

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.

Harmony with Environment

- Low spectator noise
- Low fuel consumption

Easy Maintenance

- "EMMS" (Equipment Management Monitoring System)
- Reversible radiator fan
- Swing-out aftercooler and oil coolers See page 7.

2

• Prolonged engine oil change interval • Ground check for windshield washer tank and coolant tank

WA430-5 WHEEL LOADER

NET HORSEPOWER 162 kW 217 HP @ 2000 rpm

OPERATING WEIGHT 18275–18585 kg 40,290-40,970 lb

BUCKET CAPACITY 3.1 - 4.6 m³ 4.1 - 6.0 yd³

• Cathion electrodeposition process is used to apply primer paint • Powder coating process is used to apply on main structure • Sealed DT connectors for electrical



Photo may include optional equipment.

• Easy access, gull-wing type engine side doors

KJJKGNKES KJJKGNKES

High Productivity and Low Fuel Consumption

Powerful Engine

The high pressure fuel injection in the SAA6D125E-3 engine provides optimum combustion of fuel at both low and high speed/power applications. This engine also provides fast throttle response to match the machine's powerful rim pull and fast hydraulic response.

162 kW, 217 HP

Low Fuel Consumption

The fuel consumption is reduced greatly because of the low-noise, high-torque engine and the large-capacity torque converter with maximum efficiency in the low-speed range.

Reduction of Fuel Consumption: 15% (compared with Dash 3 technology).

Dual-Mode Select System

This wheel loader offers two selectable operating modes— Normal and Power. The operator can adjust the machine's performance by flipping a switch.

- Normal Mode: This mode provides maximum fuel efficiency for most of general loading.
- Power Mode: This mode provides maximum power output for hard digging operation or hill climb.



Transmission Mode Select System

This operator controlled system allows the operator to select manual shifting or three levels of automatic shifting (low, medium, and high).



• Manual: Transmission is fixed to gear speed selected with gear shift lever.

• Auto. L: This mode provides smooth gear change and low fuel consumption since gear

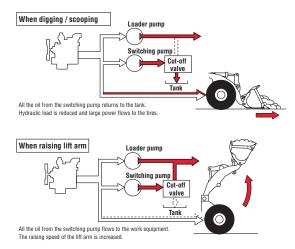
shifting is performed at relatively low engine speeds, suitable for general excavating and loading.

- Auto. M: Gear is shifted at medium engine speeds between those of L and H modes.
- Auto. H: This mode provides large rim pull and short cycle time since gear shifting is performed at relatively high engine speeds, suitable for load and carry operation on uphill.

New Dual-Speed Hydraulic System

Komatsu's dual-speed hydraulic system increases operational efficiency by matching the hydraulic demands to work conditions.

Oil from the switch pump is completely returned to the tank when digging and breaking out, therefore, hydraulic flow to the loader is reduced and pressure is increased. This reduces horsepower demand from the engine and makes the operation more efficient. Kick-down switch signal also controls the oil flow. This new technology is greater productivity at the lowest operating cost.





Maximum Dumping Clearance and Reach



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.

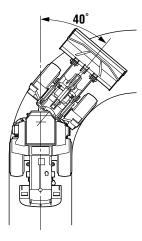
Dumping Clearance: 3125 mm **10'3" Dumping Reach:** 1110 mm **3'8"** (3.7 m³ **4.8 yd**³ bucket with B.O.C.)



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"



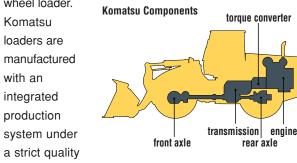
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Komatsu Components

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

wheel loader.

control system.

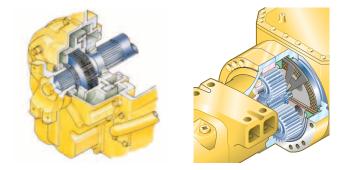


Wet multi-disc brakes and fully hydraulic braking

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.

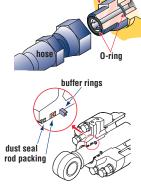


High-rigidity Frames

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

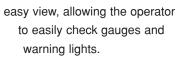
Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, water resistance and dust resistance.

Easy Maintenaice

EMMS (Equipment Management Monitoring System)

Monitor is mounted in front of the operator for





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 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

OPERALOR EUVBONMENT

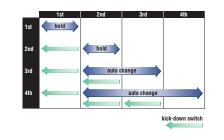
Easy Operation

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.

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.

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. The PPC control lever column can be tilted forward or rearward and the wrist rest can be adjusted up



or down to provide the operator with a variety of comfortable operating positions.

Comfortable Operation

Low-noise Design

Operator noise: 72 dB(A) Dynamic noise (outside): 111 dB(A)



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. Also, spectator noise is lowest in this class.



Pillar-less Large Cab (Optional)

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.

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.

SPECIFICATIONS

ENGINE

	Komatsu SAA6D125E-3
Туре	Water-cooled, 4-cycle
Aspiration	Turbocharged
Number of cylinders	
Bore x stroke	125 mm x 150 mm 4.92" x 5.91"
Piston displacement	
Performance:	
Flywheel horsepower	162 kW 217 HP (SAE J1349)
	162 kW 220 PS (DIN 6270)
Rated rpm	
	Direct injection
Governor	Mechanical, all-speed control
Lubrication system:	•
Lubrication method	Gear pump, force-lubrication
Filter	Full-flow type
	Dry type with double elements and dust evacuator, plus dust indicator



Torque converter:

Туре	3-element, single-stage, single-phase
Transmission:	
	Full-powershift, countershaft type

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Travel speed: km/h mph		
Measured with 23.5-25 tires		

	1st 2nd 3rd		4th	
Forward	6.6 4.1	11.5 7.1	20.4 12.7	33.2 20.6
Reverse	7.1 4.4	12.3 7.6	21.6 13.4	34.9 21.7

Measured with 26.5-25 tires

	1st	1st 2nd		4th
Forward	7.0 4.3	12.5 7.8	21.9 13.6	34.8 21.6
Reverse	7.7 4.8	13.3 8.3	23.2 14.4	36.6 22.7

AXLES AND FINAL DRIVES

Drive system	Four-wheel drive
Front	Fixed, semi-floating
Rear	Center-pin support, semi-floating,
	20° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Conventional type
Final reduction gear	Planetary gear, single reduction



Service brakes	Hydraulically actuated,
wet disc brak	es actuate on four wheels
Parking brake	Wet disc brake
Emergency brakeParking	g brake is commonly used

STEERING SYSTEM

TypeArticulated type, full-hydraulic power steering
Steering angle
Minimum turning radius at
the center of outside tire

HYDRAULIC SYSTEM

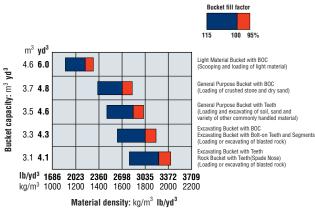
Steering system:

d rpm 0 psi	Hydraulic pump
2	TypeDouble-acting, piston ty Number of cylinders
	Loader control:
l/min	Hydraulic pump
0 psi	Relief valve setting
	Hydraulic cylinders: TypeDouble-acting, piston ty Number of cylinders—bore x stroke: Boom cylinder
	Bucket cylinder
	Control valve
	Control positions: BoomRaise, hold, lower, and flo BucketTilt-back, hold, and dur
	Hydraulic cycle time (rated load in bucket)
4 sec	Raise .6.3 s Dump .1.4 s Lower (Empty) .3.4 s

1 9 SERVICE REFILL CAPACITIES

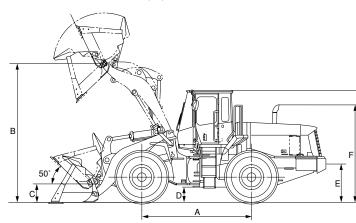
Cooling system) ltr	1 3.2 U.S. gal
Fuel tank	3 Itr	90.6 U.S. gal
Engine	5 ltr	11.9 U.S. gal
Hydraulic system	5 Itr	49.1 U.S. gal
Axle (each front and rear)	3 Itr	10.0 U.S. gal
Torque converter and transmission	2 ltr	16.4 U.S. gal





DIMENSIONS

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



ŕ	General Purpose Buckets Excavating Buckets			Excavating Buckets			eral Purpose Buckets Excavating Buckets		Light Material Bucket	Rock Bucket
	Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth	Bolt-on Cutting Edges	Teeth			
Bucket capacity: heaped	3.7 m³	3.5 m³	3.3 m³	3.3 m³	3.1 m³	4.6 m³	3.1 m³			
	4.8 yd ³	4.6 yd ³	4.3 yd ³	4.3 yd ³	4.1 yd ³	6.0 yd ³	4.1 yd ³			
struck	3.2 m³	3.0 m³	2.8 m³	2.8 m³	2.6 m³	4.0 m³	2.7 m³			
	4.2 yd ³	3.9 yd ³	3.7 yd ³	3.7 yd ³	3.4 yd ³	5.2 yd ³	3.5 yd ³			
Bucket width	3050 mm	3065 mm	3050 mm	3065 mm	3065 mm	3050 mm	3050 mm			
	10'0''	10'1"	10'0''	10'1"	10'1"	10'0''	10'0"			
Bucket weight	1745 kg	1670 kg	1835 kg	1885 kg	1760 kg	1980 kg	1830 kg			
	3,847 lb	3,682 lb	4,045 lb	4,156 lb	3,880 lb	4,365 lb	4,034 lb			
Dumping clearance, max. height	3125 mm	3000 mm	3175 mm	3055 mm	3055 mm	2955 mm	2890 mm			
and 45° dump angle*	10'3"	9'10''	10'5''	10'0''	10'0''	9'8''	9'6'			
Reach at max. height and 45° dump angle*	1110 mm	1210 mm	1055 mm	1155 mm	1155 mm	1280 mm	1335 mm			
	3'8"	4'0''	3'6''	3'9''	3'9"	4'2''	4'5"			
Reach at 2130 mm (7') clearance and 45° dump angle	2615 mm	2660 mm	2585 mm	2630 mm	2630 mm	2710 mm	2730 mm			
	8'7''	8'9''	8'6''	8'8''	8'8''	8'11''	8'11''			
Reach with arm horizontal and bucket level	3425 mm	3585 mm	3350 mm	3505 mm	3505 mm	3665 mm	3750 mm			
	11'3"	11'9 "	11'0 "	11'6 "	11'6"	12'0''	12'4"			
Operating height (fully raised)	5825 mm	5825 mm	5745 mm	5745 mm	5745 mm	6085 mm	5745 mm			
	19'1"	19'1"	18'10''	18'10''	18'10''	20'0''	18'10''			
Overall length	8375 mm	8530 mm	8295 mm	8455 mm	8455 mm	8610 mm	8700 mm			
	27'6"	28'0''	27'3"	27'9"	27'9"	28'3"	28'7"			
Loader clearance circle (bucket at carry, outside corner of bucket)	13440 mm	13530 mm	13370 mm	13485 mm	13485 mm	13550 mm	13485 mm			
	44'1"	44'5''	43'10''	44'3''	44'3''	44'5''	44'3''			
Digging depth: 0°	120 mm	135 mm	120 mm	135 mm	135 mm	120 mm	125 mm			
	4.7 "	5.3"	4.7 "	5.3"	5.3"	4.7 "	4.9 "			
10°	345 mm	390 mm	335 mm	375 mm	375 mm	385 mm	410 mm			
	1'2"	1'3"	1'1"	1'3"	1'3"	1'3 "	1'4"			
Static tipping load: straight	13800 kg	13875 kg	13710 kg	13660 kg	13785 kg	13565 kg	13715 kg			
	30,423 lb	30,589 lb	30,225 lb	30,115 lb	30,390 lb	29,905 lb	30,236 lb			
40° full turn	12000 kg	12075 kg	11910 kg	11860 kg	11985 kg	11765 kg	11915 kg			
	26,445 lb	26,621 lb	26,257 lb	26,147 lb	26,422 lb	25,937 lb	26,268 lb			
Breakout force	180 kN	195 kN	193 kN	195 kN	209 kN	151 kN	173 kN			
	18400 kgf	19900 kgf	19700 kgf	19900 kgf	21300 kgf	15400 kgf	17600 kgf			
	40,565 lb	43,870 lb	43,430 lb	43,870 lb	46,960 lb	33,950 lb	38,800 lb			
Operating weight	18350 kg	18275 kg	18440 kg	18490 kg	18365 kg	18585 kg	18435 kg			
	40,455 lb	40,290 lb	40,655 lb	40,765 lb	40,485 lb	40,970 lb	40,640 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, 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.



	Tread	2200 mm	7'3"
	Width over tires	2820 mm	9'3"
Α	Wheelbase	3350 mm	11'0"
В	Hinge pin height, max. height	4250 mm	13'11"
С	Hinge pin height, carry position	520 mm	1'8"
D	Ground clearance	460 mm	1'6"
Ε	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"

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	ftin
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	-660	-1,455	-635	-1,400	-605	-1,335						
Install front/rear compartment	+120	+265	+115	+255	+110	+245						
Install additional counterweight	+325	+715	+880	+1,940	+735	+1,620						



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket
- controls
- Alternator, 35 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
- 3-spool valve
- Additional counterweight
- Additional fuel filter
- Air conditioner
- Air conditioner side louver
- Alternator, 50 A
- AM/FM radio
- AM/FM stereo radio cassette
- Auto air conditioner
- Automatic greasing
- Battery disconnect switch
- Brake cooling system
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt-on type)

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- Directional signal
- Engine, Komatsu SAA6D125E-3 diesel
- Engine shut-off system, electric
- Hard water area arrangement
- (corrosion resister)
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
 Loader linkage with standard lift arm
- Main monitor panel with EMMS (Equipment Management Monitoring System)

• Deluxe suspension seat

Suspension System)

leveler and positioner

• Heater and defroster

• Load meter, new type

• Limited slip differential (F&R)

• Lock-up clutch torque converter

Floormat

Front fender

High lift arm

• Log grapple

Joystick steering

• Emergency steering (SAE)

• ECSS (Electronically Controlled

• Engine pre-cleaner with extension

• EPC fingertip control levers with automatic

- PPC fingertip control, two levers
- Radiator mask, lattice type
- Seat, suspension type with reclining
- Service brakes, wet disc type
- Starting motor, 7.5 kW/24 V
- Steering wheel, tiltable
- Swing-out aftercooler and oil cooler
- Tires (23.5-25-16PR, L3 tubeless)
- and rims
- \bullet Transmission, 4 forward and 4 reverse
- Ordina
 - Ordinary spare parts
 Power train guard
 - Rear defroster (electric)
 - Rear fender
 - Rearview mirror
 - Rearview mirror
 - Rear window washer and wiper
 - Remote grease (lift arm pivot pin)
 - ROPS/FOPS cab
 - ROPS/FOPS canopySeat belt
 - Single lever, loader control
 - Single lever, loader cont
 Sun visor
 - Sun visc
 Tool kit
 - Vandalism protection kit
 - Water separator
 - Printed in Japan 200811 IP.As(05)

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