

KOMATSU®

WA800-3 With Tier 2 Engine

NET HORSEPOWER
603 kW 808 HP @ 2000 rpm

OPERATING WEIGHT
101900 - 104500 kg
224,650 - 230,380 lb

BUCKET CAPACITY
10.0 - 14.0 m³ 13.1 - 18.3 yd³

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Photos may include optional equipment

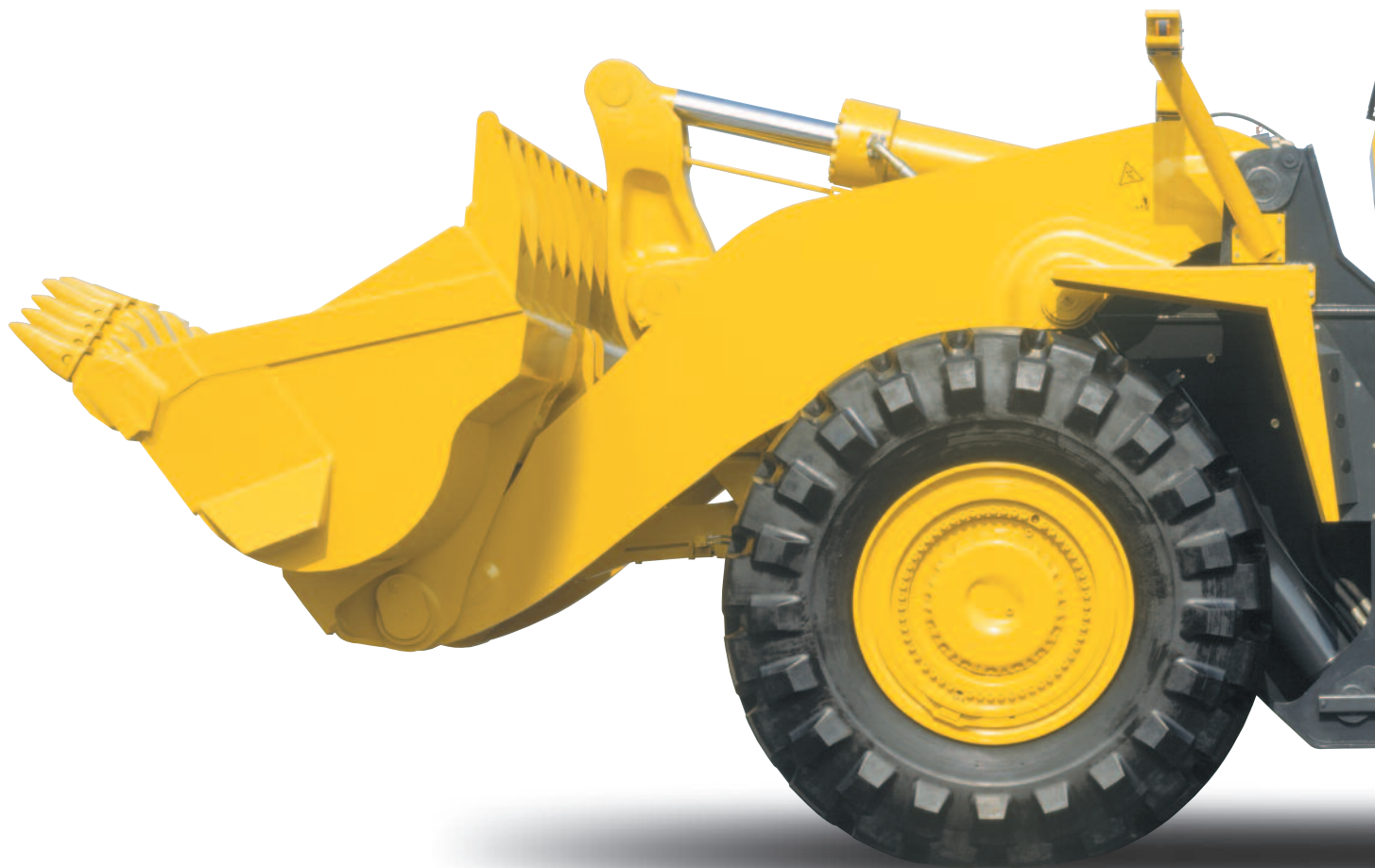
WALK-AROUND

High Productivity & Low Fuel Consumption

- High performance SAA12V140E-3 engine
- Low fuel consumption
- Dual-mode active working power select system
- Large dumping clearance

Excellent Operator Environment

- Automatic transmission with Electronically Controlled Modulation Value (ECMV)
- Advanced Joystick Steering System (AJSS)
- Roomy, quiet cab with power windows
- Low vibration & noise
- Pillar-less large cab with ROPS/FOPS Level 2 canopy
- Comfortable operator's seat



Harmony with the Environment

- EPA Tier 2 emissions certified
- Low fuel consumption

Reliability

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

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Easy Maintenance

- Simple checks
- KOMTRAX Plus
- Rear access stairs
- Auto greasing system

PRODUCTIVITY AND FUEL ECONOMY FEATURES

High Performance SAA12V140E-3 Engine

Electronic Heavy Duty Common Rail fuel injection system provides optimum combustion of fuel. This system also provides fast throttle response to match the machine's powerful tractive effort and fast hydraulic response.

Net: 603 kW 808 HP

Low Emission Engine

This engine is EPA Tier 2 emission certified without sacrificing power or machine productivity.

Low Fuel Consumption

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

Durable Buckets

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

Bucket capacities

- 11.0 m³ **14.4 yd³** Standard boom
- 12.3 m³ **16.1 yd³** Standard boom
- 10.0 m³ **13.1 yd³** High-lift boom
- 14.0 m³ **18.3 yd³** Short boom



Dual-Mode Active Working System

The machine is equipped with a two mode active working system. This system provides the most efficient hydraulic flow for your operation. The active working switch has two modes: Powerful Loading or Normal Loading.

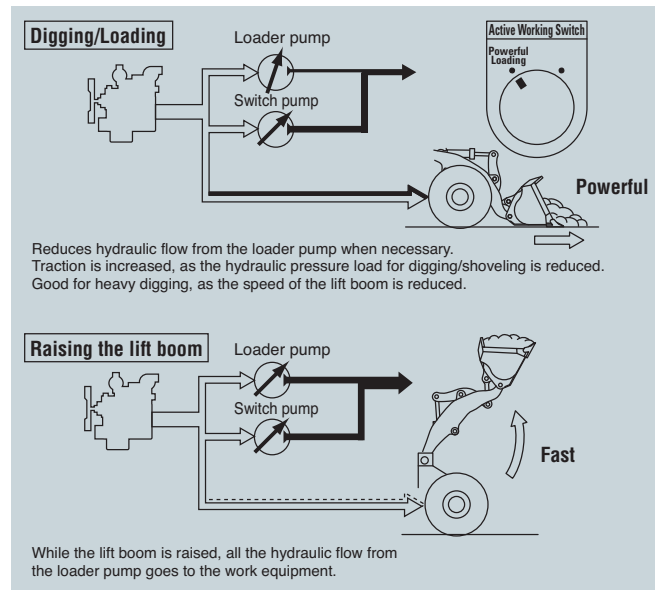


Dual modes switch

Powerful Loading or Normal Loading.

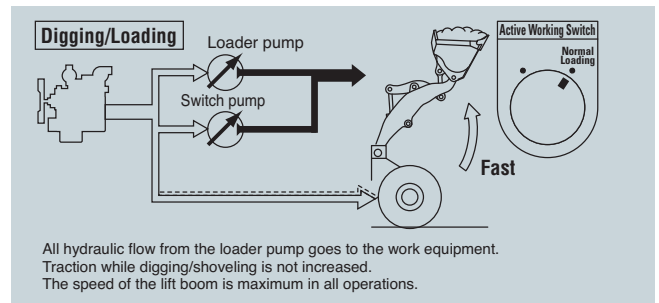
• Powerful Loading Mode:

Hydraulic flow to the work equipment is increased and reduced as required.



• Normal Loading Mode:

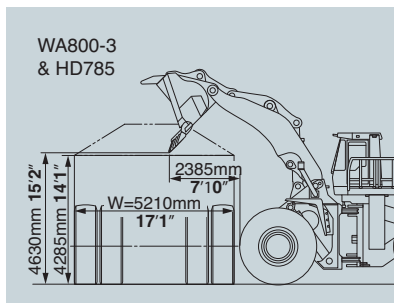
All hydraulic flow from the loader pump is transferred directly to the work equipment.





Large Dumping Clearance

The WA800-3 was designed with ample dumping clearance for dump truck matching.



High Breakout Force

Komatsu wheel loaders have high-tensile steel Z-bar loader linkages for maximum rigidity and maximum breakout force. Sealed loader linkage pins extend greasing intervals.

69000 kg 152,120 lb Breakout force
11.0 m³ 14.4 yd³ Excavating spade nose bucket with teeth

Excellent Stability

The WA800-3 has the widest tread in its class 3,350 mm 11'0" and a long 5,450 mm 17'11" wheelbase, for maximum machine stability.

Static tipping load

(with 45/65-45, 46PR (L-5) tires / bucket 11.0 m³ 14.4 yd³)

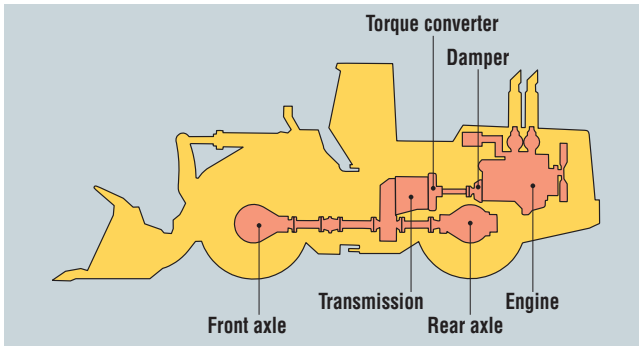
61090 kg 134,680 lb Straight

53740 kg 118,480 lb 40° full turn

RELIABILITY FEATURES

Components

Komatsu manufactures the engine, torque converter, transmission, hydraulic units, and electric parts. Komatsu loaders are manufactured with an integrated production system under strict quality control.

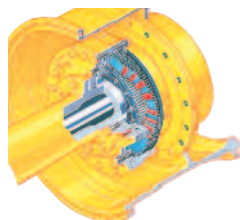


Engine Pre-lube System

Engine durability is achieved by raising the oil pressure before starting. When the key is turned, the pre-lubrication pump sends oil from the pan to the filter. When the set oil pressure is reached, then the starter motor engages to start the engine.

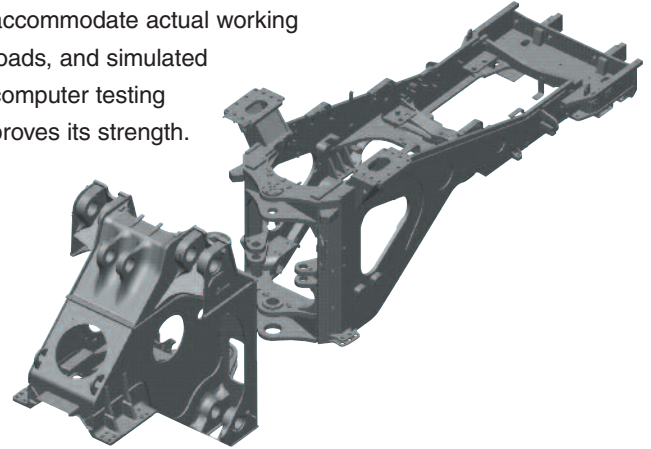
Adjustment-Free Braking System

Wet multi-disc service brakes and fully hydraulic braking system mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed, helping keep contaminants out, reducing wear and maintenance. Brakes are adjustment-free, meaning even lower maintenance. Reliability is designed into the braking system by the use of two independent hydraulic circuits. This 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.



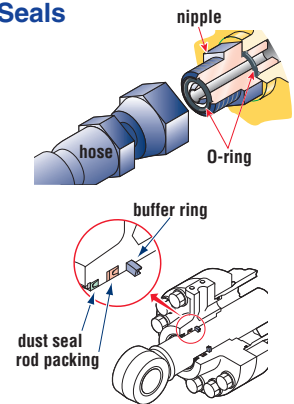
High-rigidity Frames and Loader Linkage

The front and rear frames and the loader linkage have more torsional rigidity to secure resistance against increased stress. Frame and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves its strength.



Flat Face-to-Face O-Ring Seals

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



Cation Electrodeposition Primer Paint/ Powder Coating Final Paint

Cation electrodeposition paint is applied as a primer paint and powder coating is applied as topcoat to the exterior sheet metal parts. This process results in a durable paint finish, 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.



MAINTENANCE FEATURES



Photo may include optional equipment.

Simple Checks, Easy Maintenance

The main monitor and the maintenance monitor (EDIMOS II) are neatly arranged for a quick, clear reading of machine functions. The main monitor also has a diagnostic function.

Main monitor



Maintenance monitor



Large Side Door

Right side door is easy to open and provides accessibility for maintenance.



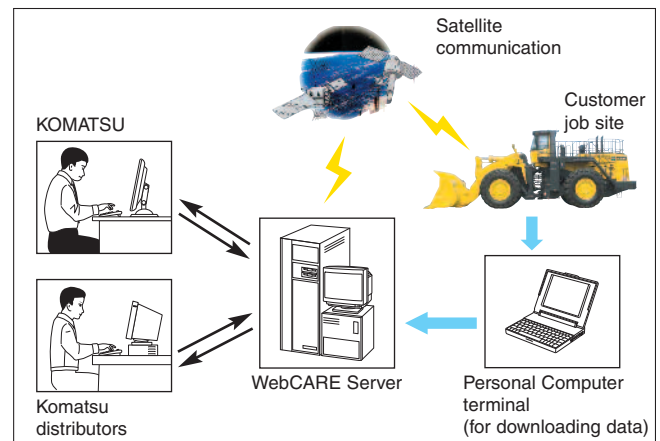
Rear Access Stairs

For the purpose of boarding and exiting the machine, rear access stairs with handrail are provided. The step width clearance and the step angle have been designed for easy entry and exit. A step light is provided for night boarding.



KOMTRAX Plus

KOMTRAX Plus is a management system for large mining equipment, which enables detailed monitoring of the fleet via satellite communications. Komatsu and distributors can analyze "vehicle health", other operating conditions and provide this information to the job site, using the Internet from a remote location, on a near-real time basis. As a result, customers receive timely vehicle maintenance, reduced maintenance expenses, downtime costs and avoid mechanical trouble.



Fuel Tank Cap with Mud Cover and Large Tool Box



Fuel tank cap



Tool box

Auto-Greasing System

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.

OPERATOR ENVIRONMENT

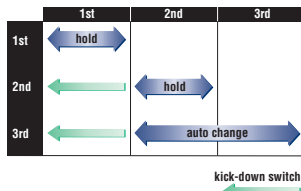
Easy Operation

Automatic Transmission with Electronically Controlled Modulation Valve (ECMV)

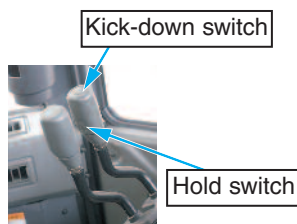
Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.

- **Kick-down switch:**

This valuable feature increases 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.

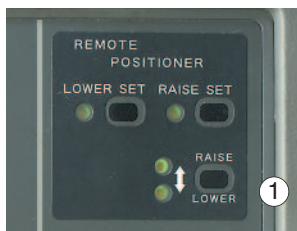


- **Hold switch:** If auto shift is selected and the operator activates this switch when the lever is at the 3rd gear speed position, the transmission is fixed to the current gear speed.



Remote Boom Positioner

The highest and lowest position of the bucket can be set from the cab to match any truck body. Once the positioner is set, the bucket is smoothly stopped at desired position with no shock.



1: Remote boom positioner switch

Variable Transmission Cutoff System

The operator can set the transmission cutoff pressure desired for the left brake pedal using the switch located on the right-side control panel. The operator can improve the working performance by setting the cutoff pressure to match working conditions.

- High cutoff pressure for digging operations.
- Low cutoff pressure for haul truck loading.

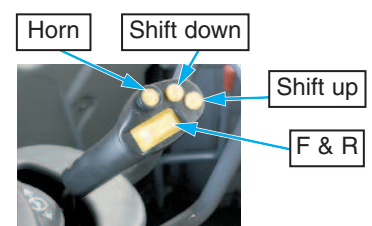


2: T/M cutoff ON/OFF switch
3: T/M cutoff set switch

Advanced Joystick Steering System (AJSS)

AJSS is a feedback steering system which has been incorporated to allow steering and forward and reverse selection to be controlled by wrist and finger control.

With the feedback function, the machine steering angle is exactly the same angle as the lever tilt angle.



Comfortable Operation

Roomy, Quiet Cab With Power Windows

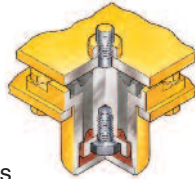
The cab is large, with a comfortably spacious interior and power windows. By adopting a high-capacity air conditioner, Komatsu ensures operator comfort, no matter the exterior conditions. Other features designed with operators in mind include a lunchbox storage space.



Lunchbox storage space

Low Vibration & Noise

The cab rests on Komatsu viscous damping mounts (rubber and silicone oil) to reduce vibration and noise. All hydraulic equipment is mounted on high-resistance rubber to further reduce vibration and noise. Noise at the operator's ear is 75dB(A).



Comfortable Operator's Seat

The operator's seat has a reclining/air suspension design with headrest to support the operator comfortably during long operation. Also, it is easy to adjust seat height with air suspension.



Pillar-less Large Cab with ROPS / FOPS Level 2 Canopy

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.

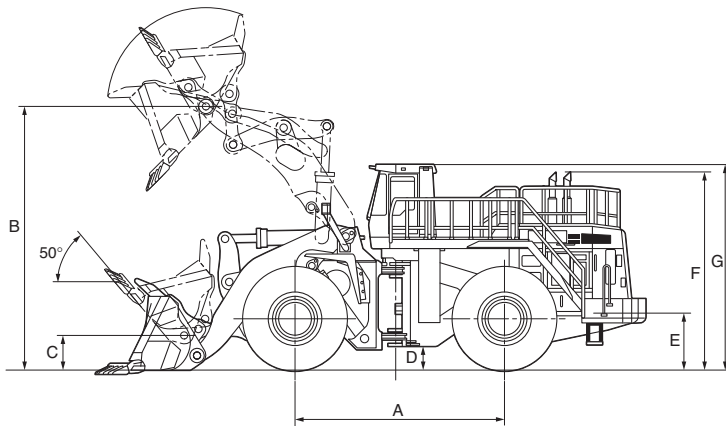


Rear heated glass provides clear view even in freezing or humid conditions.



DIMENSIONS

Measured with 45/65-45, 46PR (L-5) tires



	Standard Boom	High lift Boom	Short Boom
Tread	3350 mm 11'0"		
Width over tires	4585 mm 15'1"		
A Wheelbase	5450 mm 17'11"		
B Hinge pin height, max.	6785 mm 22'3"	7265 mm 23'10"	6140 mm 20'2"
C Hinge pin height, carry position	850 mm 2'9"		
D Ground clearance	550 mm 1'10"		
E Hitch height	1390 mm 4'7"		
F Overall height, top of the stack	5130 mm 16'10"		
G Overall height, ROPS cab	5275 mm 17'4"		

	Standard boom		High lift boom	Short boom
	Excavating Bucket	Stockpile Bucket	Rock Bucket	Load & Carry
	Spade nose Teeth	Spade nose Teeth	Spade nose Teeth	Spade nose Teeth
Bucket capacity: heaped	11.0 m ³ 14.4 yd³	12.3 m ³ 16.1 yd³	10.0 m ³ 13.1 yd³	14.0 m ³ 18.3 yd³
struck	9.3 m ³ 12.2 yd³	10.4 m ³ 13.6 yd³	8.5 m ³	11.5 m ³ 15.0 yd³
Bucket width	4810 mm 15'9"	4810 mm 15'9"	4810 mm 15'9"	5090 mm 16'8"
Bucket weight	11430 kg 25,200 lb	12150 kg 26,790 lb	10750 kg 23,700 lb	12080 kg 26,630 lb
Dumping clearance, max. height and 45° dump angle*	4630 mm 15'2"	4252 mm 13'11"	5210 mm 17'1"	3820 mm 12'6"
Reach at max. height and 45° dump angle*	2385 mm 7'10"	2495 mm 8'2"	2315 mm 7'7"	2690 mm 8'10"
Reach at 2130 mm (7') clearance and 45° dump angle*	3455 mm 11'4"	3550 mm 11'8"	3915 mm 12'10"	3350 mm 11'0"
Reach with arm horizontal and bucket level*	4360 mm 14'4"	4510 mm 14'10"	5010 mm 16'5"	4550 mm 14'11"
Operating height (fully raised)	9300 mm 30'6"	9430 mm 30'11"	9625 mm 31'7"	8740 mm 28'8"
Overall length (bucket on ground)*	13960 mm 45'10"	14110 mm 46'4"	14695 mm 48'3"	13685 mm 44'11"
Loader clearance circle (bucket at carry, outside corner of bucket)	21800 mm 71'6"	21930 mm 71'11"	22200 mm 72'10"	22040 mm 72'4"
Digging depth: 0°	165 mm 6.5"	165 mm 6.5"	200 mm 7.9"	200 mm 7.9"
10°	605 mm 2'0"	630 mm 2'1"	620 mm 2'0"	670 mm 2'2"
Static tipping load: straight	61090 kg 134,680 lb	60320 kg 132,980 lb	58710 kg 129,430 lb	68860 kg 151,810 lb
40° full turn	53740 kg 118,480 lb	52970 kg 116,780 lb	51640 kg 113,850 lb	60660 kg 133,730 lb
Breakout force	676.7 kN 69000 kgf 152,120 lb	629.3 kN 64170 kgf 141,470 lb	703.5 kN 71790 kgf 158,270 lb	657.3 kN 67000 kgf 147,710 lb
Operating weight	101900 kg 224,650 lb	102620 kg 226,240 lb	103420 kg 228,000 lb	104500 kg 230,380 lb

* At the end of tooth

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 canopy, cab, air conditioner, bucket 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.



WEIGHT CHANGES

	Operating weight	Tipping load	
		Straight	Full turn
Install additional counterweight	+1600 kg +3,530 lb	+3850 kg +8,490 lb	+3400 kg +7,500 lb



STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- AM/FM stereo radio cassette
- Advanced Joystick Steering System (AJSS)
- Alternator, 90 A/24 V
- Air conditioner
- Ashtray and cigarette lighter
- Automatic greasing
- Automatic transmission F3 / R3
- Back-up alarm
- Back-up lamp
- Batteries, 160 Ah/12 V x 4
- Boom kick-out
- Cab including front and rear wipers, windshield washers, and power windows
- Counterweight
- Directional signal
- Engine, Komatsu SAA12V140E-3 diesel
- Engine Pre-Lube System
- Fast fill fuel system
- Fire extinguisher
- Floor mat
- Front working lights (4)
- Hard water area arrangement (corrosion resister)
- Head lights (2)
- Heater and defroster
- KOMTRAX Plus
- Lift cylinders and bucket cylinder
- Power train guard
- Radiator grill, lattice type
- Rear access stairs
- Rear defroster (electric)
- Rearview mirrors
- Rear working lights (2)
- Room mirror
- ROPS/FOPS Level 2 canopy
- Seat belt, 76 mm 3" wide retractable
- Seat, air suspension, reclining, with arm rests
- Secondary brake
- Secondary steering
- Service brakes, wet disc type
- Side working lights (2)
- Starting motor, 7.5 kW/24 V x 2
- Sun visor
- Vandalism protection
- Water separator



OPTIONAL EQUIPMENT

- Bucket 11.0 m³ **14.4 yd³** standard boom
- Bucket 10.0 m³ **13.1 yd³** high lift boom
- High lift bucket cylinder
- High lift bucket positioner
- High lift cylinders
- High lift boom
- Standard boom
- Standard bucket cylinder
- Standard bucket positioner
- Standard lift cylinders
- Tires 45/65-45, 50PR (L4)-BS* *contact factory

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