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

WA 800





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

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



Photo may include optional equipment.

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 yd**³ Standard boom 12.3 m³ **16.1 yd**³ Standard boom 10.0 m³ **13.1 yd**³ High-lift boom 14.0 m³ **18.3 yd**³ 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

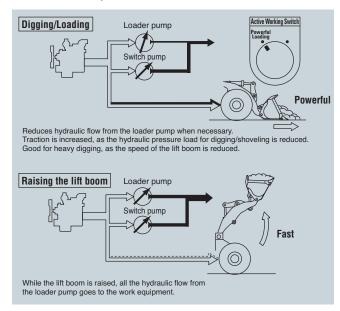


Dual modes switch

Loading.

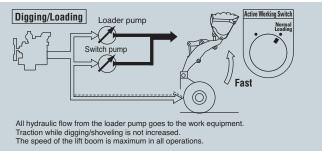
Powerful Loading Mode:

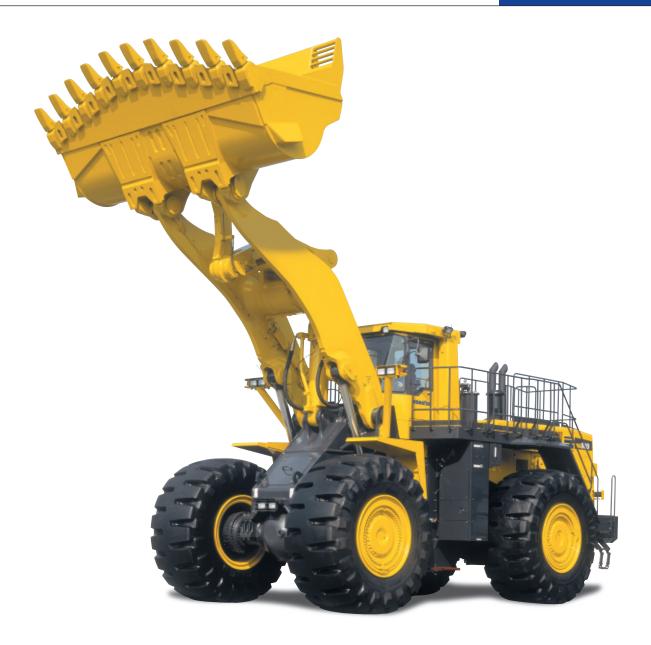
Hydraulic flow to the work equipment is increased and reduced as required.



• Normal Loading Mode:

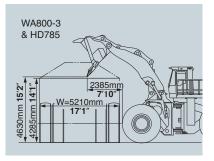
All hydraulic flow from the loader pump is transferred directly to the work equipment.





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)

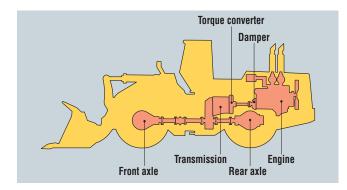
61090 kg 134,680 lb Straight

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

Durability of the engine is achieved by raising the engine oil pressure before starting the engine. When the operator turns the key, the pre-lubrication pump sends oil from the engine oil pan to the engine oil filter and raises the pressure of that oil to the set pressure. Then, the starting motor rotates 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

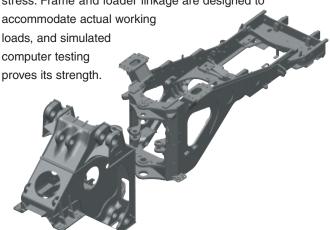
two independent hydraulic circuits. This provides hydraulic

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.



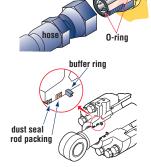
High-rigidity Frames and Loader Linkage

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



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.



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 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

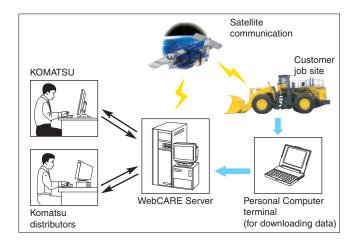
For the purpose of boarding and exiting the machine, rear access stairs with handrail are provided. The step width clearance and the step angle have been designed for easy entry and exit. A step light is provided for night boarding.





KOMTRAX Plus

KOMTRAX Plus is a management system for large equipment used in mining, which enables detailed monitoring of fleet via satellite communications. Komatsu and distributors can analyze "vehicle health" and other operating conditions and provide the information to the job site using the internet from a remote location on a near-real time basis.



Fuel Tank Cap with Mud Cover and Large Tool Box





Tool hov

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

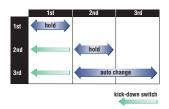
Easy Operation

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:

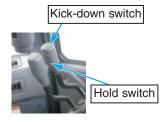
This valuable feature increases productivity. With the touch of a finger, the kick-down switch automatically downshifts from second to first when



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.



Variable Transmission Cut-off System

The operator can set the transmission cut-off 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 cut-off pressure to match working conditions.

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





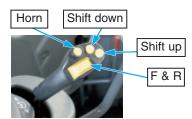
2: T/M cut-off ON/OFF switch

3: T/M cut-off 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.



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



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 silicon oil) to reduce vibration and noise. All hydraulic equipment is mounted on high-resistance rubber to further reduce vibration and noise.



Comfortable Operator's Seat



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 condensation conditions.

SPECIFICATIONS



ENGINE

Model Komatsu SAA12V140E-3
Type Water-cooled, 4-cycle
AspirationTurbocharged, air-to-air aftercooled
Number of cylinders
Bore x stroke
Piston displacement
Governor all-speed, electronic
Flywheel horsepower
SAE J1995 Gross 636 kW 853 HP
ISO 9249/SAE J1349 Net 603 kW 808 HP
Rated rpm
Fan drive method for radiator cooling Mechanical
Fuel system Direct injection
Lubrication system:
Method Gear pump, force-lubrication
Filter Full-flow and bypass combined
Air cleaner Dry type with automatic dust ejector
and pre-cleaner, cyclopac with vacuator

EPA Tier 2 emissions certified.



TRANSMISSION

Torque converter:
Type 3-element, single-stage, single-phase
Transmission:
Type Full-powershift, planetary type
Travel speed: km/h mph
Measured with 45/65-45, 46PR (L-5)

	1st	2nd	3rd
Forward	7.0 4.3	12.3 7.6	28.0 17.4
Reverse	7.1 4.4	12.4 7.7	28.3 17.6



AXLES AND FINAL DRIVES

Drive system	
Rear	
	22° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Straight bevel gear
Final reduction gear Planetary	gear, single reduction, oil bath



Service brakes	Hydraulically actuated,
v	vet disc brakes actuate on four wheels
Parking brake	Dry disc brake
Emergency brake	Parking brake is commonly used



STEERING SYSTEM

Type	Articulated type, full-hydraulic power steering
Steering angle	40° each direction
Minimum turning radius	at
the center of outside tire	e



HYDRAULIC SYSTEM

Steering system:
Hydraulic pump Piston pump
Capacity 307 ltr/min 81 U.S. gal/min at rated rpm
Relief valve setting 31.4 MPa 320 kgf/cm ² 4,550 psi
Hydraulic cylinders:
Type
Number of cylinders
Bore x stroke
Loader control:
Hydraulic pump Piston pump
Capacity 405 ltr/min 107 U.S. gal/min at rated rpm
Relief valve setting 31.4 MPa 320 kgf/cm ² 4,550 psi
Hydraulic cylinders:
Type Double-acting, piston type
Number of cylinders—bore x stroke:
Boom cylinder 2 - 260 mm x 1368 mm 10.2" x 53.9"
Bucket cylinder
Control valve Spool type
Control positions:
Boom
BucketTilt-back, hold, and dump
Hydraulic cycle time (rated load in bucket)
Raise11.2 sec
Dump
Lower (Empty)



ROPS / FOPS LEVEL 2 AND CAE

The cab is mounted on viscous damping mounts and is well insulated.

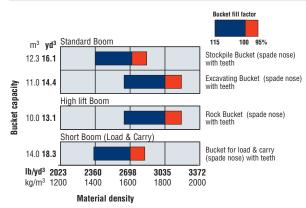


SERVICE REFILL CAPACITIES

Cooling system	89.0 U.S. gal
Fuel tank	410.8 U.S. gal
Engine	34.3 U.S. gal
Hydraulic system	191.5 U.S. gal
Axle (each front and rear) 360 ltr	95.1 U.S. gal
Torque converter and transmission 140 ltr	37.0 U.S. gal

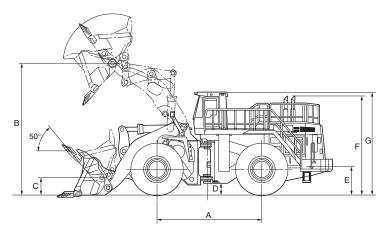


BUCKET SELECTION GUIDE





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



		Standard Boom	High lift Boom	Short Boom
	Tread	3350 mm 11'0 "		0"
	Width over tires	4585 mm 15'1"		
Α	Wheelbase	5450 mm 17'11"		11"
В	Hinge pin height, max.	6785 mm 22'3"	7265 mm 23'10"	6140 mm 20'2"
С	Hinge pin height, carry position	850 mm 2'9 "		
D	Ground clearance	550 mm 1'10"		
Ε	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	Spade nose	Spade nose	Spade nose
	Teeth	Teeth	Teeth	Teeth
Bucket capacity: heaped	11.0 m³	12.3 m³	10.0 m³	14.0 m ³
	14.4 yd³	16.1 yd³	13.1 yd³	18.3 yd³
struck	9.3 m³ 12.2 yd³	10.4 m³ 13.6 yd³	8.5 m ³	11.5 m³ 15.0 yd³
Bucket width	4810 mm	4810 mm	4810 mm	5090 mm
	15'9"	15'9 "	15'9"	16'8"
Bucket weight	11430 kg	12150 kg	10750 kg	12080 kg
	25,200 lb	26,790 lb	23,700 lb	26,630 lb
Dumping clearance, max. height and 45° dump angle*	4630 mm	4252 mm	5210 mm	3820 mm
	15'2"	13'11"	17'1"	12'6"
Reach at max. height and 45° dump angle*	2385 mm	2495 mm	2315 mm	2690 mm
	7'10"	8'2"	7'7"	8'10"
Reach at 2130 mm (7') clearance and 45° dump angle *	3455 mm	3550 mm	3915 mm	3350 mm
	11'4"	11'8 "	12'10"	11'0"
Reach with arm horizontal and bucket level*	4360 mm	4510 mm	5010 mm	4550 mm
	14'4"	14'10 "	16'5 "	14'11"
Operating height (fully raised)	9300 mm	9430 mm	9625 mm	8740 mm
	30'6"	30'11"	31'7 "	28'8"
Overall length (bucket on ground)*	13960 mm	14110 mm	14695 mm	13685 mm
	45'10"	46'4"	48'3"	44'11"
Loader clearance circle (bucket at carry, outside corner of bucket)	21800 mm	21930 mm	22200 mm	22040 mm
	71'6 "	71'11"	72'10"	72'4"
Digging depth: 0°	165 mm	165 mm	200 mm	200 mm
	6.5 "	6.5 "	7.9 "	7.9 "
10°	605 mm	630 mm	620 mm	670 mm
	2'0"	2'1"	2'0"	2'2"
Static tipping load: straight	61090 kg	60320 kg	58710 kg	68860 kg
	134,680 lb	132,980 lb	129,430 lb	151,810 lb
40° full turn	53740 kg	52970 kg	51640 kg	60660 kg
	118,480 lb	116,780 lb	113,850 lb	133,730 lb
Breakout force	676.7 kN	629.3 kN	703.5 kN	657.3 kN
	69000 kgf	64170 kgf	71790 kgf	67000 kgf
	152,120 lb	141,470 lb	158,270 lb	147,710 lb
Operating weight	101900 kg	102620 kg	103420 kg	104500 kg
	224,650 lb	226,240 lb	228,000 lb	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.



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

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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
- · Emergency brake
- Engine, Komatsu SAA12V140E-3 diesel
- · Fast fill fuel system
- Fire extinguisher
- Floormat
- Front working lights (4)
- Hard water area arrangement (corrosion resister)
- Head lights (2)
- Heater and defroster
- · Lift cylinders and bucket cylinder
- · Power train guard
- · Radiator mask, 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 steering
- Service brakes, wet disc type
- Side working lights (2)
- Starting motor, 7.5 kW/24 V x 2
- · Sun visor
- Vandalism protection
- KOMTRAX Plus
- Water separator



- 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 positionerHigh 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

AESS747-01

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Printed in USA

D10(500)C

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