

WA500-7 Tier 4 Interim Engine Steel Mill Arrangement



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

WALK-AROUND

The Komatsu-integrated design found in this loader offers class leading value, reliability and versatility. Hydraulics, power train, frame and all other major components are engineered by Komatsu. You get a machine whose components are designed to work together for higher production and reliability. The integrated design also provides the strong frame and component foundation to allow a 2nd or even 3rd life after rebuilding. Now add the Komatsu designed Steel Mill Arrangement with guarding and heat protection specifically matched to the WA500-7 and you have a loader that handles hot slag and stays working longer for increased productivity.



WA500-7

Tier 4 Interim Engine Steel Mill Arrangement

NET HORSEPOWER
353 HP @ 1900 rpm
263 kW @ 1900 rpm

OPERATING WEIGHT 84,955 lb 38535 kg

BUCKET CAPACITY 5.25 yd³ 4.0 m³



A powerful Komatsu SAA6D140E-6

engine provides a net output of 263 kW **353 HP** with 7% improved fuel consumption. This engine is EPA Tier 4 Interim and EU stage 3B emissions certified.

Komatsu Variable Geometry

Turbocharger (KVGT) uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

Komatsu Diesel Particulate Filter (KDPF)

captures 90% of particulate matter and provides automatic regeneration that does not interfere with daily operation.

Increased cooling capacity

- Auto-reversing fan is standard
- Wider core coolers

HIGH PRODUCTION WITH LOW FUEL CONSUMPTION

Large capacity torque converter with lock-up:

- Reduces fuel consumption
- Faster top speed
- Quick acceleration
- Lock-up in 2nd, 3rd and 4th gear

An all new cab provides the operator with improved comfort and visibility.

New high resolution monitor panel

- Enhanced and intuitive on-board diagnostics
- Integrated with KOMTRAX Level 4
- Integrated with
- Komatsu Tier 4 technology

Rearview monitoring system (standard)

New high capacity air suspension seat

- Seat mounted EPC controls with F-N-R switch
- Seat heater is standard

Energy saving guidance

costs.

- Six operator guiding messages
- Enhanced eco-gauge

Komatsu Auto Idle Shutdown helps reduce idle time and reduce operating

Komatsu SmartLoader Logic helps reduce fuel consumption with no decrease in production.



Remote boom and bucket positioners can set kick-outs from inside the cab.

Variable displacement piston pumps with CLSS help reduce fuel consumption.

K@MTRAX[®]

Komtrax equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.

STEEL MILL ARRANGEMENT FEATURES

HEAT PROTECTION

The WA500-7 Steel Mill Arrangement is built on the foundation of a proven design. This package adds features to protect critical machine components and fluids from the heat typically found when handling hot slag.

FIRESLEEVE is used to protect the hydraulic hoses and wire harnesses susceptible to damage in this severe application. FIRESLEEVE, a high temperature silicone rubber coated fiberglass sleeve, withstands 260°C **500°F** continuous exposure; molten splash at 1205°C **2200°F** for periods up to 15 minutes and short exposures up to 1650°C **3000°F**.

High amperage cables connecting the two batteries, the batteries to starter and the alternator to batteries are wrapped with FIRESLEEVE. HD clamps replace standard clamps as necessary.

FIRESLEEVE covers the external boom and bucket hoses and all exposed wire harnesses in the front frame and the front portion of the rear frame. HD clamps replace standard clamps as necessary. Stainless steel braided sleeves protect the FIRESLEEVE wrapped

hoses and harness from damage.

Stainless steel braided sleeves cover the FIRESLEEVE wrapped hoses and main wiring harness passing through

the articulation area.



The plastic on exposed components has been removed or replaced with metal. The standard plastic backed mirrors are replaced with metal backed mirrors.



HID bulbs with glass lenses replace the standard plastic lens front work lights.

The front rubber mounted lower steps are replaced with steel hinged steps that are designed to move fore and aft with the machine to minimize damage from external impact.





The rear rubber mounted steps are replaced with heavy duty 19mm **3/4**" thick steel steps.



Remote bucket pin grease hoses have been added for easy maintenance and are protected with stainless steel braided sleeve over FIRESLEEVE.

The bellcrank grease line is protected with FIRESLEEVE and stainless steel braided sleeve.





The plastic fuel filter water separator bowl is replaced with a metal bowl and all rubber fuel lines are protected from heat with FIRESLEEVE wrap.



Hydraulic fluid can be replaced with optional EcoSafe FR46 or FR68 fire resistant fluid. A hydraulic

EcoSafe FR

tank drain quick coupler and quick sample port are included as standard equipment with the Steel Mill Arrangement

DURABILITY

The slag loader is exposed to some of the worst corrosive and abrasive environments in the industry. The Komatsu Steel Mill Arrangement increases the life and durability of the machine components commonly found to wear faster or get damaged in hot slag handling applications.

The guarding package protects the:

- (1) front frame bottom opening
- (2) boom cylinder hoses
- (3) power train bottom opening
- (4) fuel tank
- (5) front and rear axle brake lines

The guards are up to 9.5mm **3/8**" thick steel and are protected with bolt head guards as needed. The front frame, power train and fuel tank guards have bolt on covers to allow cleanout and access to maintenance points.

On the sides of the loader, both the transmission filter box and the brake component box are protected and reinforced with 6.5mm **1/4"** guards on the sides and bottom. Bolt on covers allow easy access to maintenance and inspection locations.



The 3mm **1/8**" cab under guard protects the hoses directly underneath the cab from molten splashes and external damage.

The dual screen light guards protect the front work lights from impacts.





At a steel mill there is typically a large amount of dust in the air. The Steel Mill Arrangement includes an optional dual stage Optimax system that will protect and extend the life of the air intake system and filters. In addition to this, the battery boxes are also sealed to prevent dust accumulation.



How air is cleaned in the Optimax Series 9000 precleaner

- 1) Air enters through the Optimax debris screen
- 2) Curved blades direct air and dirt up against the side wall
- 3) Angled fins move the debris towards the ejection slot
- 4) Precleaned air exits stage 1 and enters stage 2
- 5) Remaining debris swirls around outer wall of stage 2
- 6) Debris is isolated in the exit tray of stage 2
- 7) Isolated debris is removed through the exhaust system
- 8) Clean air flows to the engine filter

The axle breathers feature upgraded filter media designed for this application and are raised off the axle.





STEEL MILL ARRANGEMENT FEATURES

OPERATOR PROTECTION

Operator protection is always the number one concern at Komatsu. Various features added to the WA500-7 Steel Mill Arrangement provide an ergonomic and comfortable operator's compartment.

The optional dual pane sacrificial glass protects the front of the cab from heat and impact. The inner glass is 22mm **7/8**" thick SAFE-SHIELD, and the outer glass is 5.5mm **7/32**" thick HEAT-SHIELD. The roof of the cab comes prewired for installation of a beacon light.

At the rear of the loader there is an engine shut down switch and a parking brake override switch accessible from ground level. Both switches are designed to be used in urgent situations for towing the machine.

Should damage occur to the transmission shift system, an additional secondary override circuit is included in the cab. This circuit allows travel in first gear forward or reverse to move the machine from a compromising location.

A bracket is provided in the cab to easily mount a manual activation switch and control box for a fire suppression system.

Also, the left and right platforms have added mounting plates for liquid/ dry chemical tanks.





The optional RESPA cab



How air is cleaned in the RESPA-CF filter/pressurizer



- 1) Air enters the RESPA unit
- 2) Fan creates a vortex to direct dirt up against outside wall
- 3) Air passes through louvers to enhance centrifugal forces
- 4) Particulate is spun to outside wall and rear of device
- 5) Particulate is ejected through 2 ports at rear of device
- 6) Precleaned air passes through the filter to the outlet







HIGH PRODUCTIVITY & LOW FUEL CONSUMPTION

High Performance Komatsu SAA6D140E-6 Engine

The Komatsu SAA6D140E-6 engine is EPA Tier 4 Interim and EU Stage 3B emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more than 90% and nitrogen oxides (NOx) by more than 45% when compared to Tier 3 levels.

Through the in-house development and production of

engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications. The operator will notice high torque at low speeds, excellent operation and low fuel consumption to provide maximum productivity.



Komatsu Diesel Particulate Filter (KDPF)

Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. Both passive and active regeneration are automatically initiated by the engine controller depending on the soot level of the KDPF. A special oxidation catalyst with a fuel injection system is used to oxidize and remove particulate matter while the machine is running so the regeneration process will not interfere with daily operation.

The operator can also initiate regeneration manually or disable regeneration depending on the work environment.



Closed Crankcase Ventilation (CCV)

Crankcase emissions (blow-by gas) are passed through a CCV filter. The CCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil mist free, is fed back to the air intake.



Heavy Duty High Pressure Common Rail (HPCR) Fuel Injection System

The heavy duty HPCR system is electronically controlled to deliver a precise

quantity of pressurized fuel into the combustion chamber using multiple injection events to achieve complete fuel burn and reduce exhaust gas emissions. Fuel injector reliability has been improved by using ultra-hard wear resistant materials.



Komatsu Variable Geometry Turbocharger (KVGT)

Using Komatsu proprietary technology, a newly designed variable geometry turbocharger with a hydraulic actuator is used to manage and deliver optimum air flow to the combustion chamber under all speed and

load conditions. The robust hydraulic actuator provides power and precision, resulting in cleaner exhaust gas, quick acceleration and improved fuel economy while maintaining performance.



Redesigned Combustion Chamber

The combustion chamber located at the top of the

engine piston has a new shape designed to improve combustion and further reduce NOx, PM, fuel consumption, and noise levels.



Cooled Exhaust Gas Recirculation (EGR)

Cooled EGR, a technology that has been well proven in Komatsu Tier 3 engines, reduces NOx emissions to

meet Tier 4 levels. The hydraulically actuated EGR system has increased capacity and uses larger and more robust components to ensure reliability for demanding work conditions.



HIGH PRODUCTIVITY & LOW FUEL CONSUMPTION

Advanced Electronic Control System

The engine control system has been upgraded to effectively manage the air flow rate, EGR gas flow rate, fuel injection parameters, and aftertreatment functions. The new control system also provides enhanced diagnostic capabilities.

Komatsu SmartLoader Logic

The WA500-7 provides Komatsu SmartLoader Logic, a new engine control system. This technology acquires data from various sensors in the vehicle and controls the engine to yield enough torgue for each work phase. Engine torque requirements for a wheel loader vary depending on working conditions. For example, the loader requires higher torque for digging in V-shape loading, but less torgue when traveling with an empty bucket. This technology limits the engine torgue during less demanding work, therefore saving fuel. Komatsu SmartLoader Logic functions automatically and doesn't interfere with operation, saving fuel without decreasing production.

Large-Capacity Torque Converter

The WA500-7 power train has a large capacity torque converter for optimum efficiency. The WA500-7 has greater productivity in V-shape loading applications because the increased tractive effort does not require full throttle. The improved hill climbing ability allows the WA500-7 to up-shift gears faster because of improved acceleration. The WA500-7 can achieve higher gear ranges and maintain higher travel speed when working in load-and-carry applications. In most applications, production is increased and fuel consumption is reduced, resulting in improved fuel efficiency.

Enhanced Lock-Up

The large-capacity torque converter with lock-up is standard on the WA500-7. The lock-up function activates in 2nd, 3rd and 4th gears to give the loader a maximum travel speed of 37.3 km/h **23.2 mph**. The large capacity torque converter with enhanced lock-up is effective for both load and carry applications, and V-shape loading which uses lower gears. The enhanced lock-up reduces the clutch engagement shock by controlling engine torque with Komatsu SmartLoader Logic improving operator comfort. The enhanced lock-up combined with Komatsu SmartLoader Logic results in lower fuel consumption and higher travel speeds in load and carry and even some cycle loading applications.

Komatsu Auto Idle Shutdown

In order to reduce idle time, Komatsu offers Komatsu Auto Idle Shutdown. This function will shut the engine off and apply the parking brake and hydraulic lock after a preset idle time limit. This time limit can be set by the operator or service technician and may range from 3 minutes to 60 minutes.

Low Fuel Consumption

Komatsu added many new features on the WA500-7 to reduce fuel consumption. These features enable further fuel efficiency by optimally controlling engine power and matching the Komatsu designed and produced high efficiency power train components and hydraulic system.



* Compared with the WA500-6, fuel consumption varies depending on working conditions.

Dual-Mode Engine Power Select System

This wheel loader offers two selectable operating modes—E and P.

- E Mode: This mode provides maximum fuel efficiency for general loading.
- P Mode: This mode provides maximum power output for hard digging operations or hill climb applications.



Dual mode engine power selection switch

Eco-Guidance

The Eco-guidance provides information on the monitor to help save fuel. The monitor displays messages in real-time during operation and on the exit screen when

turning the key to shut off the engine. This function can be controlled through the monitor. The operator can view Eco-guide and fuel consumption through the monitor as well as through KOMTRAX.



Variable Displacement Piston Pump & CLSS

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The variable displacement piston pump combined with the Closed-center Load Sensing System (CLSS) delivers as much hydraulic flow as the job requires, preventing wasted hydraulic flow. Minimized loss contributes to better fuel economy.

OPERATOR ENVIRONMENT

New Designed Cabin

The new cabin offers better ergonomics, more storage space and more features to improve operator comfort.



Operator Seat with EPC (Electronic Pilot Control) Levers

The work equipment control system has an EPC lever console integrated into the higher capacity seat and moves with the seat. The angle of the armrest is fully adjustable for optimum operator comfort. An F-N-R switch is now incorporated in the console. A heated seat is now standard.

Tiltable / Telescopic Steering Wheel

The WA500-7 comes standard with a tiltable and telescopic steering wheel that can be pushed up and out of the way for easy entry and exit of the cab.



Low Noise Design

Operator's ear noise level : 73 dB(A) Dynamic noise level (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 designed to provide a quiet, low-vibration,

dustproof, and comfortable operating environment.



Increased Cab Storage Area

The WA500-7 cab features a storage box on the left hand side of the cab to allow the operator to store items out of the way. A hot or cold box on the right hand side of the cab allows the operator to keep a beverage or lunch warm or cold, depending on the season.



OPERATOR ENVIRONMENT

Ergonomic Comfort

The dashboard and cab have been redesigned to improve operator comfort. The monitor can be controlled by the multi-switch panel. Also, the front glass of the cab has been lowered to improve visibility.



Rear View Monitoring System (standard)

The operator can view the rear of the machine with a full color monitor that is located on the right side of the cab. This monitor can be always on or only on when the loader goes into reverse. Visual guidelines can also be added for more convenience.

Seat Belt Caution Indicator

A warning indicator appears on the monitor when the seat belt is not engaged.





Auxiliary Input (MP3 Jack) 12 V Outlets

An Aux input to allow use of an MP3 player or other device is now standard as well as two 12 volt outlets. These are all located on the front of the right hand console.

AUX input jack



Engine Shutdown Secondary Switch

The engine stop switch is incorporated to allow shutdown of the machine when accessing the key switch is not possible.







Easy Entry and Egress

The WA500-7 provides an inclined ladder with wide steps and hand holds.

Remote Bucket & Boom Positioner

The operator can set the bucket angle and remote boom positioner from the cab. Both upper and lower boom positions are adjustable in the cab with the push of a button.



Remote positioner switch Boom / Bucket

Automatic Kick-down

The WA500-7 has the ability to automatically shift down to F1. This can be activated through the monitor.

Kick-down switch





Electronically Controlled Suspension System (ECSS)

The Electronically Controlled Suspension System (ECSS) or ride control system uses an accumulator which absorbs some of the shock in the boom arm, giving the operator a much smoother ride. This reduces operator fatigue and reduces material spillage during load and carry operations. ECSS is speed sensitive, meaning that the boom won't move during stationary digging. ECSS is standard on the WA500-7.

EASY MAINTENANCE



Full Side-Opening Gull-Wing Engine Doors

The large gull-wing type engine doors are operated with low effort assisted by gas springs. The doors open in two steps. The first position is for daily maintenance and the second

position is for periodic maintenance. Large steps are provided on each side of the frame to help access.



Photos may include optional equipment

Swing Out Fan

The large capacity cooling unit features a wider spacing of the cooling fins to reduce clogging. The hydraulic driven cooling fan can be opened for cleaning.



Photos may include optional equipment

Auto Reversing Fan

The engine cooling fan is driven hydraulically. It can be set to reverse automatically during operation. Fan reverse mode and timing can be controlled through the monitor.

achine Setting / Information	
🛞 Manual Fan Reverse Mode	Default
Automatic Fan Reverse Mode	Mode A
🚰 Bucket Flat Level Select	A
21 Auto Kick Down Setting	ON
F-H Trip Meter	6.1 kr

Maintenance Function

The monitor informs the operator when the replacement interval for oil and filters will be reached.

Maintenance	Interval	Remain
Air Cleaner Cleaning / Change		-
🕂 Fuel Pre Filter	500 h	500 h
🙆 Engine Oil	500 h	500 h
🙍 Engine Oil Filter	500 h	500 h
🔍 Transmission Oil Filter	1000 h	1000 h

Battery Disconnect

The battery disconnect switch is located on the side of the right side battery box This can be used to disconnect power when performing service work on the machine.



Engine Compartment

The WA500-7 engine compartment was laid out for easy serviceability. Great attention was paid to the location of the maintenance items, such as the filters, dipsticks and oil fill locations. The same goes for the KDPF and CCV filter, as even the top of the hood was redesigned to ease removal of the KDPF for cleaning or replacement.



LED Taillights

LED tail lamps / brake lamps and reverse lamps provide long bulb life and use less power than the ones on the WA500-6.



Cab Air Intake Filter

The cab air intake filter is located on the front of the cab, on the left hand side of the machine behind a lockable door, for easy access and security.

KDPF Regeneration

Soot trapped by and accumulated in the KDPF is removed by burning it periodically and automatically.



KDPF regeneration indicator

Manual Stationary Regeneration

Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel.

A soot level indicator is displayed to show how much soot is trapped in the KDPF.





INFORMATION & COMMUNICATION TECHNOLOGY

Machine Monitor

The machine monitor displays various machine information and allows for various settings of the machine.

Large Multi-Lingual LCD Monitor

A large user-friendly color monitor provides excellent screen visibility through the use of a TFT liquid crystal display that can easily be read at various angles and lighting conditions. A keypad provides simple and easy navigation to machine operation information.

Switch panel

The switch panel is used to select various LCD unit screens and the air conditioner control screen.

By using the switch panel, you can display various user menus on the LCD unit screen and perform the settings of the machine.

J	
E	CO Guidance
î	Operation Records
	ECO Guidance Records
	Average Fuel Consumption Logs
	😰 Configurations
÷	

ECO Guidance

- Operation Records
- ECO guidance Records
- Average Fuel Consumption Logs
- Configurations

2 Machine setting / information

- Automatic Fan Reverse Mode
- Bucket Level Selections
- Auto Kick Down Settings





Machine monitor



Air conditioner switches /

500 h

500 h 500 h

500 h

Numeral key pad

Switch panel

1

Setting for regeneration stop

Check and reset of various

(27) N

maintenance intervals

15.2

Operation of manual stationary

6 KDPF regeneration

regeneration

Maintenance

8 Engine coolant temperature gauge

- 9 Hydraulic oil temperature gauge
- 10 Torque converter oil temperature gauge
- 🚺 Fuel gauge
- 12 Message pilot lamp
- 13 Pilot lamps

2 Function switches

6 Monitor setting

- 25 Languages
- · Rear view monitor setting
- Meter select
- Screen adjustments

1	1	English
	2	日本語/Japanese
	3	França is/French
	4	Español / Span i sh
	5	Português/Portuguese
	6	Italiano/Italian

500-7 Steel Mill Arrangement

KOMTRAX EQUIPMENT WORKING ENVIRONMENT MONITORING



KOMTRAX is Komatsu's remote equipment monitoring and management system. KOMTRAX gathers critical machine and operation information and provides it in a user-friendly format so that you can make well-informed decisions. KOMTRAX gives you more control of your equipment and better control of your business!

KOMTRAX comes standard on all new Komatsu machines with complimentary manufacturer communications services throughout the entire ownership period. It is a powerful tool and makes Komatsu machines an even better purchase!

Fleet Optimization

KOMTRAX tells you how your machines and operators are performing. KOMTRAX provides:

- Fuel consumption data and trends, by unit or fleet
- Machine fuel level
- Machine utilization
- Actual working hours/Machine idle hours
- Attachment usage hours
- Machine travel hours
- Machine load analysis
- Operating mode ratios

Location and Asset Management

KOMTRAX tells you where your machines are and can help prevent unauthorized use. KOMTRAX provides:

- GPS location/Operation maps
- Out-of-area and movement alert with location and time
- Engine, nighttime, and calendar lock

Maintenance Management

KOMTRAX monitors the health of your machines and provides critical information so that you, and your distributor, can take proactive maintenance measures and reduce downtime. KOMTRAX provides:

- Service Meter Reading (SMR)
- Cautions/Abnormality codes
- Maintenance replacement notifications

Easy and Flexible Access to Information

With KOMTRAX, information about your machines is available through a convenient, internet-based portal. KOMTRAX provides:

- A user-friendly KOMTRAX website that provides customized access to your machine information
- E-mail and text alerts
- Web dial-up service
- Monthly fleet summary reports

For more information, including terms and conditions of the manufacturer complimentary KOMTRAX communication service, ask your distributor, pick up a KOMTRAX brochure, or go to www.komatsuamerica. com/komtrax.



For construction and compact equipment.



For production and mining class machines.

KOMATSU PARTS & SERVICE SUPPORT

Komatsu is an industry leader in building reliable and technologically advanced machines. It is only fitting that we would provide superior Product Support. Komatsu and its distributors are focused on providing their customers unparalleled Product Support throughout the entire lifecycle of the machine. It's called Komatsu CARE.

Komatsu CARE – Complimentary Scheduled Maintenance

Komatsu remains focused on lowering the customer's ownership costs by engineering machines with increased fuel efficiency and productivity. In addition, one Komatsu CARE program aimed at further reducing your owning and operating costs is Complimentary Scheduled Maintenance. Komatsu machine owners can now rely on their Komatsu Distributor to perform the preventative maintenance on their Komatsu Tier 4 machines.

- Complimentary scheduled maintenance for the earlier of 3 years or 2,000 hours is standard on all Komatsu Tier 4 construction machines and is available at all distributors in the U.S. and Canada.
- Two complimentary Komatsu Diesel Particulate Filter exchanges within the first five years.
- Service is performed by factory certified technicians using only Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high equipment uptime and reliability
- Increases resale value and provides detailed maintenance records

Komatsu CARE – Extended Coverage

Komatsu equipment is built to withstand harsh operating environments, but our Extended Coverage can provide further peace of mind by protecting customers from unplanned expenses and impacts in cash flow. Purchasing Komatsu CARE's Extended Coverage locksin the cost of covered parts and labor for the extended warranty period and helps to turn these variable expenses into a fixed cost.

- No Stop Loss or Loss Limits imposed, regardless of the coverage type or repair expense
- Any combination of months and hours out to five years and 10,000 engine hours – KOWA kits included
- Coverage premium can be rolled into the machine financing at time of sale or purchased any time before the expiration of the machine's standard warranty
- Coverage is fully transferable and honored by all Komatsu distributors throughout the U.S. and Canada

Komatsu CARE – Total CARE

Total CARE combines the benefits of the Komatsu CARE Scheduled Maintenance and Extended Coverage programs on your Tier 4 machine. This ensures the use of Komatsu genuine parts and fluids during regular maintenance intervals as well as highly skilled and efficient technicians to perform any other warranty repair work that might be necessary to keep your Komatsu equipment running like new.





Komatsu Parts Support

Because downtime can be costly, Komatsu maintains a strategic distribution network throughout the U.S. and Canada, to ensure superior parts availability and to keep your Komatsu machine up and running.

- Komatsu America has nine Parts Distribution Centers strategically located throughout the U.S. and Canada
- Komatsu America's Parts distribution network is accessible 24/7/365 to fulfill your parts needs
- Komatsu has a distributor network of over 325 locations across the U.S. and Canada
- Online parts ordering available through Komatsu eParts, 24/7/365. (See distributor for details)
- Komatsu offers a full line of factory Remanufactured products with same-as-new warranties at a significant cost reduction:
 - 1. Complete Engine Assemblies
 - 2. Transmissions
 - 3. Torque Converters
 - 4. Hydraulic components
 - 5. Starters, Alternators, turbochargers
 - and circuit boards

Komatsu Oil and Wear Analysis (KOWA)

The KOWA program uses independent laboratories across the United States to determine how your machine is performing based on a small sample of oil or other fluid. Just like a doctor will take a blood test to check on your personal health, KOWA allows you to check how your equipment is performing. Used with PM Clinic and PM Tune Up, KOWA is one of your best tools for proactively maintaining your Komatsu equipment and maximizing it's availability and performance.

KOWA detects fuel dilution and coolant leaks, identifies contaminants, and measures wear-metals. Your distributor will help you interpret this information so you can identify potential problems and head them off before they lead to major repairs.

For more information of all of the manufacturer sponsored programs mentioned in this brochure, including terms and conditions of the individual programs, please speak with your distributor or go to www.komatsuamerica.com

SPECIFICATIONS

INGINE

ModelKoma	tsu SAA6D140E-6*
TypeWa	ater-cooled, 4-cycle
AspirationTurbo-charged, after-c	ooled, cooled EGR
Number of cylinders	
Bore	140 mm 5.51"
Stroke	165 mm 6.50"
Piston displacement	15.24 ltr 930 in ³
Governor	II-speed, electronic
Horsepower:	
SAE J1995 Gro	ss 266 kW 357 HP
ISO 9249 / SAE J1349N	et 263 kW 353 HP
Rated rpm	1900 rpm
Fan drive method for radiator cooling	Hydraulic
Fuel system	Direct injection
Lubrication system:	
MethodGear pum	p, force-lubrication
Filter	Full-flow type
Air cleaner Dry type with do	puble elements and
dust evacuator,	plus dust indicator

*EPA Tier 4 Interim and EU stage 3B emissions certified

TRANSMISSION

Transmission Full-powershift, planetary type

Travel sp	eed Forward*	Reverse*
1st	7.5 km/h 4.7 mph	8.5 km/h 5.3 mph
2nd	12.9 km/h 8.0 mph (13.1 km/h 8.1 mph)	12.9 km/h 8.0 mph (13.0 km/h 8.1 mph)
3rd	22.2 km/h 13.8 mph (23.7 km/h 14.7 mph)	24.7 km/h 15.3 mph (26.6 km/h 16.5 mph)
4th	35.5 km/h 22.1 mph (37.3 km/h 23.2 mph)	38.0 km/h 23.6 mph (38.0 km/h 23.6 mph)
*P-mode	Measured with 29.5-25 tires	(): Lock-up clutch ON

AXLES AND FINAL DRIVES

Drive system	
Front	Fixed, full-floating
Rear	Center-pin support, full-floating,
	24° total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Conventional type
Final reduction gear	Planetary gear, single reduction



Emergency brake Parking brake is commonly used



STEERING SYSTEM

Type Articulated type, fully-hydraulic power steering Minimum turning radius at

the center of outside tire 7050 mm 23' 2"

HYDRAULIC SYSTEM

Steering system:

Hydraulic pump..... Piston type Capacity 120 ltr/min 31.7 U.S. gal/min at rated rpm Relief valve setting 24.5 MPa 250 kgf/cm² 3,555 psi Hydraulic cylinders:

Loader control:

Hydraulic pump..... Piston pump Relief valve setting 34.3 MPa 350 kgf/cm² 4,980 psi Hydraulic cylinders:

- Number of cylinders-bore x stroke:
- Bucket cylinder1- 185 mm x 675 mm 7.3" x 26.6" Control valve 2-spool type Control positions: Boom Raise, hold, lower, and float

Hydraulic cycle time (rated load in bucket)	
Raise	7.2 s
Dump	1.7 s
Lower (Empty)	4.2 s

SERVICE REFILL CAPACITIES

Cooling system	133	ltr	35.1 U.S. gal
Fuel tank	473	ltr	124.9 U.S. gal
Engine	. 37	ltr	9.8 U.S. gal
Hydraulic system	337	ltr	89.0 U.S. gal
Axle (each front and rear)	. 95	ltr	25.1 U.S. gal
Torque converter and transmission	. 71	ltr	18.8 U.S. gal

SPECIFICATIONS



Measured with 29.5-25-22PR (L5) tires



	Hot Slag Bucket
Bucket capacity: heaped	4.03 m ³
	5.27 yd ³
struck	3.29 m ³
	4.30 yd ³
Bucket width	3658 mm
	12'
Bucket weight	4808 kg
	10,600 lbs
Dumping clearance, max. height	3245 mm
and 45° dump angle* (H)	10' 8"
Reach at max. height and	1450 mm
45° dump angle*	4' 9"
Reach at 2130 mm 7' clearance	2250 mm
and 45° dump angle*	7'5"
Reach with arm horizontal and	3194 mm
bucket level*	10' 6"
Operating height (fully raised)	6371
	20'11"
Overall length	9844 mm
	53' 8"
Loader clearance circle (bucket at carry.	16567 mm
outside corner of bucket)	54' 4"
Static tipping load: straight	26955 kg
	59,425 lb
40° full turn	23343 kg
	51,462 lb
Breakout force	308 kN
	31415 kgf
	69,258 lb
Operating weight	38535 kg
operating morgine	84,955 lb

	Tread	2400 mm	7'10"
	Width over tires	3190 mm	10'6"
А	Wheelbase	3780 mm	12'5"
В	Hinge pin height, max. height	4755 mm	15'7"
С	Hinge pin height, carry position	575 mm	1'11"
D	Ground clearance	450 mm	1'6"
Е	Hitch height	1115 mm	3'8"
F	Overall height, top of the stack	3665 mm	12'0"
G	Overall height, ROPS cab	3785 mm	12'5"

*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, additional counterweight, ROPS cab, air conditioning unit, ECSS, operator and standard Steel Mill Arrangement equipment plus optional Ansul fire suppression system, sacrificial glass, allied slag bucket and L5 tires. Machine stability and operating weight affected by counterweight, tire size, and other attachments.

EQUIPMENT

STANDARD EQUIPMENT

- 2-spool valve for boom and bucket control
- Alternator, 90 A
- Auto shift transmission with mode select system
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries, 160 Ah/12 V (2)
- Battery disconnect
- Boom Kick-out, in-cab adjustable
- Bucket Positioner, in-cab adjustable, 3 positions
- Color rear view camera and monitor
- Counterweight, standard and additional
- Electronically Controlled Suspension System (ECSS)
- Engine, Komatsu SAA6D140E-6 diesel
- Engine shut-off system, electric
- EPC fingertip controls with F-N-R switch, two levers
- Equipment Management Monitoring System (EMMS)
- Lights (central warning, brake oil pressure, engine oil pressure, parking brake, cooling fan reverse, KDPF restriction, seat belt caution, Komtrax message)

- Gauges (Engine water temperature, ECO, Fuel level, Hydraulic oil temperature, speedometer/tachometer)
- Front fenders
- Fuel pre-filter with water separator
- Horn, electric
- Komatsu SmartLoader Logic
- Komatsu Auto Idle Shutdown
- KOMTRAX[®] Level 4
- Lift cylinders and bucket cylinder
- Lights
 - Back-up light, LED
 - Stop and tail light, LED
 - Turn signal, 2 rear with hazard switch
 - Working lights, halogen, 2 front cab mount
 - Working lights, halogen, 2 front fender mount - Working lights, halogen, 2 rear grill mount
- Loader linkage with standard lift arm
- Lock-up torque converter
- Parking brake, electric
- Radiator, wider core
- Radiator mask, lattice type
- Rear view mirrors, outside (2) inside (2)
- Rims for 29.5-25 tires

- ROPS/FOPS Cab Level 2
- 2 x DC12V electrical outlets
- Auto air conditioner
- Cigarette lighter, 24V
- Color LCD/TFT multi-monitor
- Cup holder
- Floor mat
- Operator seat, reclining, air suspension type, heated
- Radio, AM/FM with AUX input jack
- Rear defroster, electric
- Seatbelt, 2-point retractable, 76mm 3" width
- Space for Lunch box
- Steering wheel, tilt and telescopic
- Sun visor, front window
- Windshield washer and wiper, front with intermittent
- Windshield washer and wiper, rear Service brakes, wet disc type
- Starting motor, 11 kW

battery (2)

- Transmission, 4 forward and 4 reverse Vandalism protection kit, padlocks for
- STEEL MILL ARRANGEMENT STANDARD EQUIPMENT
- HID front work lights (ILOS)
- Beacon wiring harness
- Cab under guard
- Emergency engine shut down at ground level
- Fire suppressant system ready
- FIRESLEEVE covered exposed hoses
- FIRESLEEVE covered exposed wire harnesses FIRESLEEVE covered high amperage wire harness
- Front light guards
- Guarding package for brake component box, transmission filter box, front frame, power train, fuel tank, boom cylinder hoses, and front and rear axle brake lines
- Hydraulic oil quick sample port
- Hydraulic tank drain quick coupler
- Sealed battery box
- Metal backed mirrors (ILOS)

- Metal fuel filter water separator bowl (ILOS) Raised axle breathers (ILOS)
- Remote parking brake override at ground level Remote bucket pin grease hoses
- Steel front and rear steps
- Stainless steel braided sleeve hose guards
- Transmission override in cab

OPTIONAL EQUIPMENT

- Auxiliary steering (SAE)
- Limited slip differential (F&R)
- EcoSafe FR46 hydraulic fluid
- EcoSafe FR68 hydraulic fluid
- Sy-Klone Optimax dual stage pre-cleaner
- Sy-Klone RESPA cab air cleaner
- Sacrificial glass

*Specific fire suppression systems, slag buckets and tires are available through a Special Feature Request

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AD11(Electronic View Only)

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