STANDARD EQUIPMENT

- Alternator, **140 A**/24 V
- AM/FM radio with cassette
- Air conditioner, heater, defroster, pressurizer
- Automatic greasing system
- Automatic transmission
- Auxiliary steering system
- Axles, full floating
- Backup alarm with light
- Batteries, **200 Ah**/6 x 12 V
- Boarding stairs
- Boom kick-out, automatic and adjustable
- Brakes:
  —Service: wet, multiple-disc
  —Parking: wet, multiple-disc
- Bucket positioner, automatic
- Cab with ROPS/FOPS canopy
- Converter, **2.5 amps** 12 volt
- Counterweight, standard
- Electronic display/Multi Monitor
- Fenders, front and left rear
- Ground level shutdown
- Hitch
- Horn, electric
- High pressure filters
- Lights
  —Backup light
  —Headlights (4 front)
  —Stop and tail
  —Turn signal with hazard switch (2 front, 2 rear)
  —Working lights (6 front, 4 rear)
  —Access stairs and service area
- Payload meter
- Proportional pressure hydraulic controls
- Rearview mirror and rear underview mirror mounted to radiator guard
- Rims, 44.00-57
- Seat belt, **78 mm** 3" with retractor
- Seat, air suspension
- Starting motor, direct electric **24 V** with pre-lube
- Steering, full hydraulic power (joystick steering control)
- Sun visor
- Tinted glass
- Tires, 55.5/80-57 68PR
- Tire saver (modulation clutch controlled)
- Vandalism protection kit
- Washer, front and rear
- Wiggins fast fuel fill
- Wiggins fast oil fill
- Wipers, front and rear, front intermittent

OPTIONAL EQUIPMENT

- Beacon lamp
- Buckets:
  —**20.0 m³** 26.2 yd³ spade nose rock
  —**18.0 m³** 23.5 yd³ spade nose rock (both with ESCO loadmaster system teeth and wear shrouds)
  —**35.0 m³** 45.8 yd³ coal
- Cold weather arrangement
- Fire extinguisher
- High lift arrangement
- Odometer
- Power train guard
- Radiator core protective grid
- Rear cab glass with internal heat element
- Retractable rear window shade
- Rims, 52.00-57
- Tires
  —65/65-57 62PR
  —53.5/85-57 76PR
- Tire chains

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KOMATSU®

CEN00041-01

WA1200-3

KOMATSU®

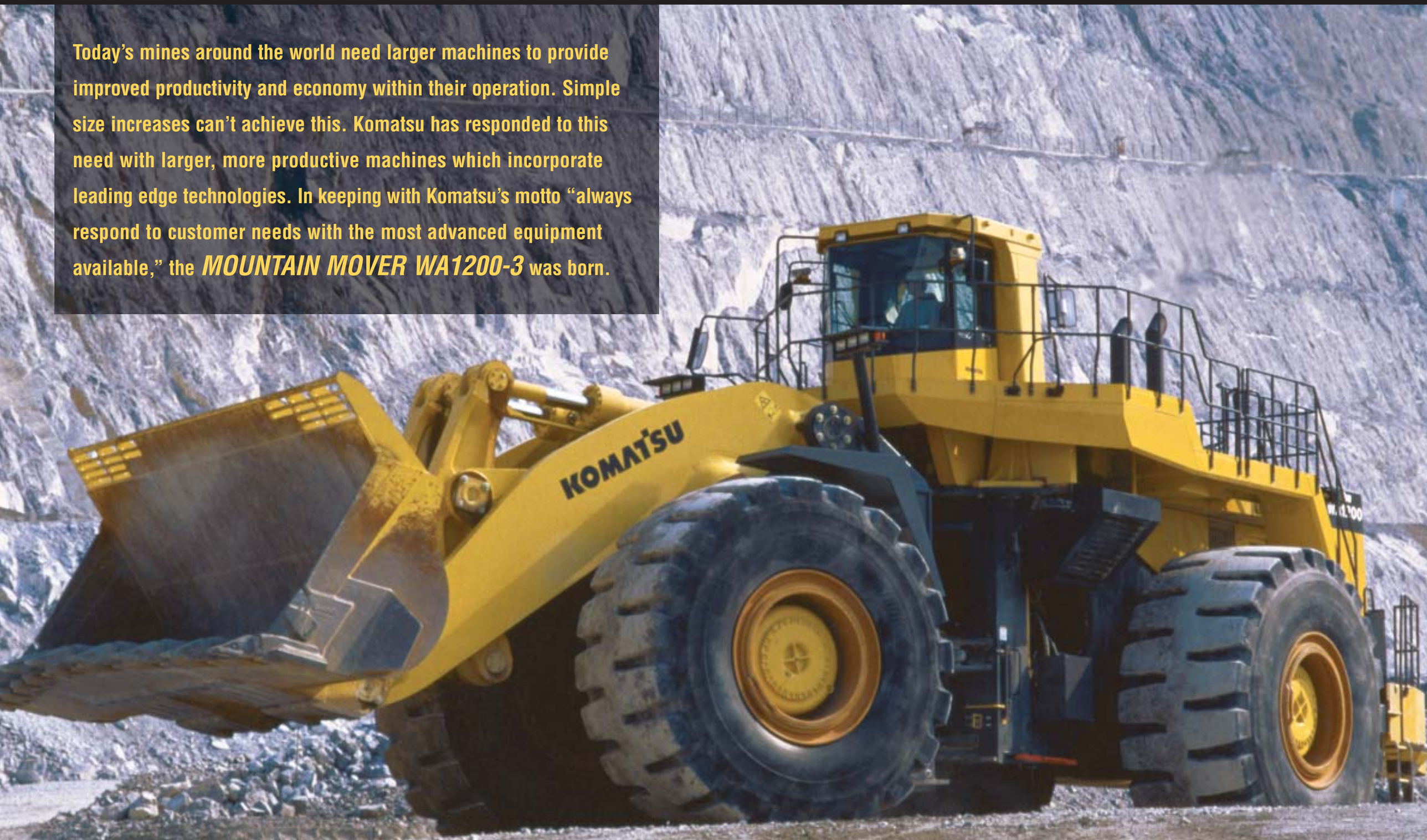
BUCKET CAPACITIES
18.0 – 35.0 m³
23.5 – 45.8 yd³

WA1200-3

WHEEL LOADER
WA1200-3

From the Leading Edge of Technology Comes the New Dimension Wheel Loader

Today's mines around the world need larger machines to provide improved productivity and economy within their operation. Simple size increases can't achieve this. Komatsu has responded to this need with larger, more productive machines which incorporate leading edge technologies. In keeping with Komatsu's motto "always respond to customer needs with the most advanced equipment available," the ***MOUNTAIN MOVER WA1200-3*** was born.



The Mountain Mover WA1200-3

WA1200-3 Wheel Loader

WALK-AROUND

Komatsu-integrated design offers the ***best 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,*** greater reliability, and more versatility.

***Largest bucket in its class*—**
20.0 m³ 26.2 yd³.

Cab air conditioner is a large capacity unit with air ducts strategically located to offer the most comfortable operator work space.

Main monitor shows travel condition and has troubleshooting capability.

Rigid frame for superior digging performance. Single plate frame design employing multiple castings is proven in both lab and field tests.

ROPS/FOPS cab protection. Operator's safety is built into the cab with the use of a ROPS/FOPS canopy, a two-door system, and an emergency ladder.

Oil sealed pins offer 2,000 hour maintenance intervals.

Extra dumping clearance and reach.
Dumping clearance: **6285 mm** 20'7"
Dumping reach: **2970 mm** 9'9"

Bucket/arm configurations to match various haul trucks:
Standard arm with **20.0 m³** 26.2 yd³ bucket: 150–240 ton trucks
High lift arm with **18.0 m³** 23.5 yd³ bucket: 240–300 ton trucks

Extended oil change intervals using hybrid filter and oversized hydraulic tank.

Automatic greasing system.

Centralized filter layout. Transmission/ torque converter oil, engine oil, fuel.

Special viscous mounts support cab to absorb vibration and noise (interior levels of 73 dB(A)).

Automatic transmission for efficient load and carry operations. Electronic Controlled Modulation Valve (ECMV) system provides smooth shifting in all speeds.

Low maintenance brake system.

Safe durable service brakes. Closed wet disc brake system used. Oil cooler allows long downhill travel with full bucket loads.

Variable traction and hydraulic power. Variable Output Hydraulic System (VOHS) is a self-adjusting hydraulic system to meet system demand for high productivity.

Longer tire life. Tire Saver controls tire slip and lengthens tire life. Optional wide base tires (65/65-57 62PR) offer longer service life than standard tires.

The Most Advanced Technology

Hi-Cab is extra long and wide to provide a comfortable work environment. The seated operator has a better view inside the body of a 240-ton haul truck. Oversized, obstruction-free windshield, side and rear windows provide a panoramic view of the work site.

The dream has come true.
Advanced Joystick Steering System (AJSS) with light, short strokes for perfect steering accuracy.

Remote boom positioner is easy to set up. High and low bucket positions are easily set up promoting smooth bucket movement stops without shocks to machine components.

Emergency brakes/emergency steering.

Multi Monitor
serves as a service information center. It has gauge, maintenance, load meter, and remote boom positioner and service functions.

Overhead panel
for cassette/radio and air conditioner controls.

Safe boarding and exiting machine. Boarding stairs are equipped with safety handrail and step lights for night operation.

Safe maintenance accessibility. All maintenance points are equipped with a step and safety handrail. Engine radiator grille pivots open for easy access.

Selectable traction power.

- Maximum traction control for adjusting the traction to suit the conditions at various operations.
- Maximum speed control of 1st and 2nd travel speeds to help shorten cycle times and extend tire lives.

Breakout force:
1274 kN 130000 kg 286,600 lb
Traction force:
1127 kN 115000 kg 253,500 lb

RPM set system
allows engine speed to be easily set with a gentle momentary touch.

Quick fluid change-out system:
hydraulic oil, transmission/ torque converter oil, engine oil, engine coolant, and fuel.

WA1200-3
WHEEL LOADER

NET HORSEPOWER
1165 kW 1560 HP @ 1900 rpm

OPERATING WEIGHT
205200 kg 452,390 lb

BUCKET CAPACITY
18.0 – 35.0 m³
23.5 – 45.8 yd³

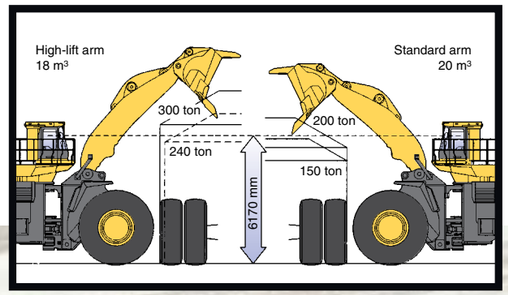
Productivity Features

The largest bucket in its class and the most advanced technology available today combine to make the Mountain Mover WA1200-3 the most productive wheel loader.

The Largest Bucket in Its Class

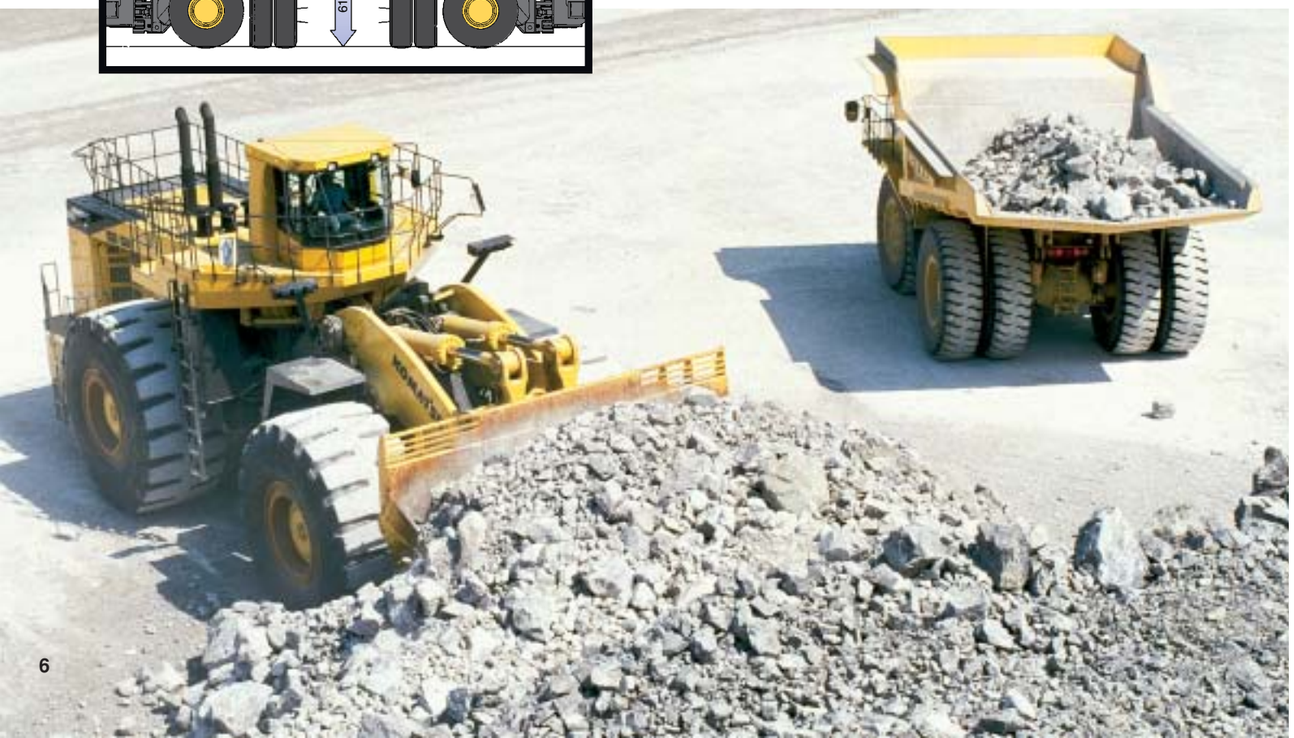
The Mountain Mover WA1200-3 is equipped with the largest bucket in its class at **20.0 m³** 26.2 yd³. Komatsu's bucket is designed for easy loading with little spillage. This, combined with the highest traction and breakout force available, along with the Variable Output Hydraulic System, makes a loader which achieves high bucket fill factors and maximum production, able to outproduce other loaders.

Arm	Bucket	Dump Clearance	Dump Reach
Standard Arm	**20.0 m³** 26.2 yd³	**6285 mm** 20'7"	**2970 mm** 9'9"
High Lift Arm (optional)	**18.0 m³** 23.5 yd³	**7005 mm** 23'0"	**3045 mm** 10'0"



Remote Boom Positioner

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



Efficient, Electronically Controlled Diesel Engine

Economical Cummins QSK 60 diesel engine provides power with reserve margins to move giant **20.0 m³** 26.2 yd³ loads. Equipped with an electronic governor for low fuel consumption and electronic acceleration pedal and rpm set for easy operation, this power plant supplies **1165 kW** 1560 HP of power and **7.83 kNm 798 kgfm** 5,772 ft lb of torque.

Maximum Traction Control

Rim pull force is adjustable from 20–100% allowing the operator to make adjustments with a dial type switch in accordance with operating conditions.

Maximum Speed Control

Travel speed in both first and second gear is adjustable using a simple dial control adjustment. This allows the operator to find the most effective speed during his work cycle. Using this control can help decrease tire wear, fuel consumption, and help to shorten loading cycle times.

Matching With Haul Trucks

Aggressive loading and maximum fill factors lead to exceptional productivity in the toughest mining conditions.

The WA1200-3 equipped with a **20.0 m³** 26.2 yd³ bucket can load a 150-ton truck in four passes. Due to its extra dumping clearance and reach it is able to load 200-ton trucks in five passes. The high lift version can load 240-ton plus trucks.

Arm	150 ton	170 ton	200 ton	240 ton	300 ton
Standard Arm	4 passes	5 passes	5 passes	6 passes	—
High Lift Arm (optional)	—	—	—	7 passes	8 passes

Variable Output Hydraulic System (VOHS)

This self-adjusting system puts the power where needed. A variable displacement pump is employed by this system. When digging, the available traction power increases and as a result the penetration force increases. When the boom is raised, the boom hoist circuit flow is increased to provide faster boom hoist cycle times. This system was designed to lower the machine's work cycle times.

Hi-Cab

To enhance the loading performance when using larger buckets with the extra dumping clearance and reach, the hi-cab is standard equipment. From his vantage point, **6170 mm** 20'3" from the ground, the seated operator has a safe, unobstructed full view of the bucket and the inside of a 240-ton truck body.

Komatsu Designed Reliability

Integrating the latest technology in all areas of design, Komatsu has developed the WA1200-3 Mountain Mover as the most reliable, durable wheel loader for working in the harshest mining conditions.

Exclusive Komatsu Design Features Power Train, Axles, Transmission, and Hydraulic Components

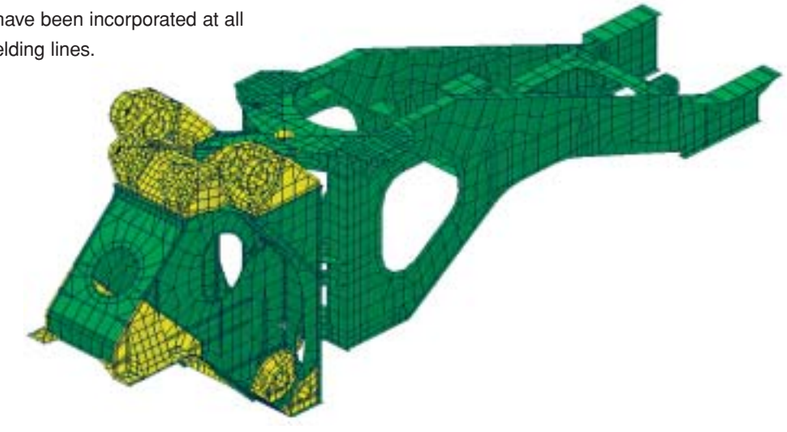
The power train transforms **1165 kW** 1560 HP into **1127 kN 115000 kg** 253,500 lb traction and **1274 kN 130000 kg** 286,600 lb breakout force. All components within the power train, from bolts to final gearing, are all Komatsu-designed.

Designed to bear large loads and transmit large amounts of tractive power, Komatsu's full floating axle is used along with its planetary style transmission—another exclusive Komatsu feature with proven industry experience. The variable displacement hydraulic pump and hydraulic cylinders are also Komatsu-built components.

Rigid Frame

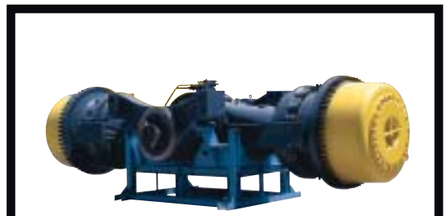
Frame is designed to accommodate actual working loads, and simulated computer testing proves its strength prior to building.

To increase frame reliability, steel castings have been incorporated at all frame pivot points to eliminate excessive welding lines.



Safe Durable Service Brakes

The WA1200-3 uses Komatsu-designed sealed wet disc brakes. This proven design, coupled with a brake oil cooling system, provides reliable and durable final drive braking while downhill traveling with full loads and in all load and carry operations.



Quick Fluid Change-out System

Hydraulic oil, transmission/torque converter oil, engine oil, and engine coolant can all be changed from the ground with a quickfill/change-out system. A fast-fill fuel system is also included as standard equipment. Wiggins Quickfill systems are used.

Centralized Filter Layout

Torque converter, transmission, engine oil, and fuel filters have been centrally located for ease of replacement from the ground.

Automatic Greasing System

A microprocessor-based system ensures a preset supply of lubrication is delivered to all lube points at the proper intervals to help reduce maintenance costs.

Steps, Ladders, Doors, Hinged Radiator Grille, Handrails

Ladders and steps are arranged to provide safe access to each maintenance point. All doors are easy to open and provide accessibility for maintenance and cleaning. The radiator grille is a hinged design and opens as a door for easy access and cleaning. Safety handrails and steps are used at each maintenance point above ground level.

OPERATOR'S COMPARTMENT

Designed with the operator in mind, the operator's compartment promotes comfort and efficient operation for both experienced and inexperienced operators alike.

Operator's Cab Interior

The operator's environment employs a simple open design concept. The front instrument panel and door panels are molded plastic along with the left and right console boxes. There are no obstacles protruding from these panels leading to an open, uncluttered feeling, and making cleaning the cab interior a simple matter of wiping down these panels with a wet cloth.

Advanced Joystick Steering System (AJSS)

The most suitable steering system for wheel loader operation should be both smooth and effortless to operate. With this in mind, using its hydraulic and electronic control technology, Komatsu has created AJSS. This system allows the machine operator to articulate the machine proportionally with the angle of the control joystick. He can actually develop a "feel" for the steering articulation and thus increase his operation efficiency.

Transmission forward/reverse and shift control switches are mounted on the joysticks.

Automatic Transmission Allows Load and Carry Operations Without Shifting Gears

This system automatically selects the optimum gear in accordance with the conditions, travel speed, engine speed, etc. The transmission is controlled by the Komatsu Electronic Control Modulation Valve (ECMV) system.

The operation is made much easier as the operator no longer has to shift from gear to gear while carrying loads during the work cycle.

Engine Speed Controls

RPM Set System

Engine rpm can be easily preset using a push-button switch.

Electronic-type Throttle Pedal and Electronically Governed Engine

The use of an electronic control governor coupled with an electronic foot pedal enable smooth engine speeds to be achieved with minimum foot pressure.

Main Monitor EDIMOS II

(Electronic Display Monitoring System)

This simple functional monitor panel is well-received by operators worldwide. It displays on-line travel speed, gear position, and other important travel-related information. It also has diagnostic functions.

Multi Monitor

On the right of the panel is the color graphic system. Through this system remote boom positioning is set.
Gauges displayed on the monitor include: engine water temperature, oil pressure, fuel level, and payload meter.

Maintenance diagnostic information is also available on the monitor.

Comfortable Operator's Seat

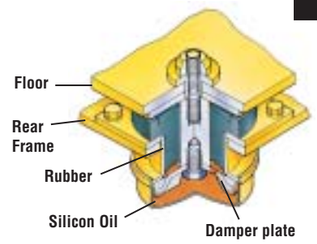
An air suspension operator's seat is supplied as standard equipment. With a retractable seat belt, the six-way adjustable seat provides a comfortable working position for any sized operator.

Hi-Cab

The operator's cab has been designed exclusively for the WA1200-3 to provide extra space in the operator's work area for both increased comfort and enhanced productivity. This cab is equipped with state-of-the-art features including Advanced Joystick Steering System (AJSS) and the Color Graphics Console (CGC) all in easy reach of the seated operator. The obstruction-free front, side, and rear windows offer full panoramic view of working area.

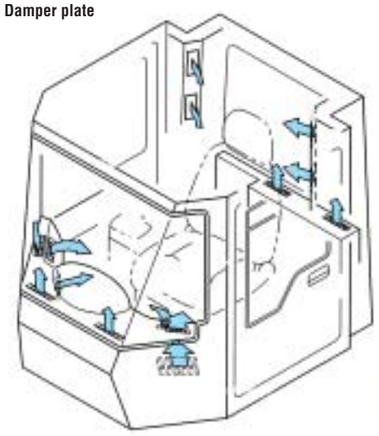
Overhead Panel

Controls for the AM/FM cassette radio, window wiper and washer, cab lights, and air conditioner are all neatly arranged in an overhead console easily within the seated operator's reach.



Special Viscous Mounts

Cab is mounted using viscous dampening hydro-mounts for low vibration and noise (interior noise level 73 dB(A)).



Cab Air Conditioning

Large capacity air conditioning system combined with carefully placed vents provide optimum cool air flow. Defroster vents are designed to keep the rear window frost-free during cold weather operation. With a simple touch of his hand the operator can easily select from the five operating modes and four fan speeds on the overhead control panel.

Cost-Reducing Features

Tire Saver

Komatsu answers the call to help control tire costs with its Tire Saver features. The Komatsu Tire Saver feature senses wheel slippage electronically and sends a signal to the modulation controller, which in turn signals the torque converter modulator and the input horsepower is controlled. The rim pull of the tire is controlled, tire slip is stopped, and the tire life is extended.

Inherent to the Komatsu design are features which help mine operators reduce machine operational costs.

Ultra Wide Base Tire Option

65/65-57 62PR ultra wide base tires have been developed exclusively for the WA1200-3. With the reduction of ground pressure, increase of rubber material, and larger air volume, incidents of premature tire wear and tire cutting have been reduced. The result of this tire technology along with the Tire Saver feature is longer tire life and reduced vehicle-operating costs.

Vehicle Health Monitoring System (VHMS)

The VHMS controller functions as a central information point for all system components. Maintenance intervals of all components are displayed as well as gauge-type information such as temperatures, engine speed, and pressures. The on-line availability of this information helps to make the process of maintaining and troubleshooting the machine much more precise and less time consuming.

Extended Hydraulic and Brake Oil Change Intervals

Hydraulic and brake oil change intervals have been extended to 2,000 hours of operation with the use of hybrid oil filters and an oversized hydraulic tank.

Oil Sealed Loader Linkage Pins

Sealed and lubricated loader linkage pins are used which only require lubrication at 2,000 hour intervals.

Safety Features

Komatsu put a high priority on the safety of the machine operator while designing the WA1200-3 Mountain Mover.

Large Cab Design With Safety Protection

The oversized cab is designed with the operator's safety in mind. It is equipped with both Roll Over Protection (ROPS) and Falling Object Protection (FOPS). There are doors to the operator's left and right. A right-side emergency ladder is included for exiting the machine.

Emergency Steering

In emergency situations when the steering pump is disabled an emergency steering pump is used to provide hydraulic flow. This pump is transmission-driven, utilizing the machine's traveling speed in emergency situations to safely steer the machine.

Safe Maintenance Accessibility

For safe maintenance operations, all maintenance points are equipped with a step and safety handrail.

Low Maintenance Safe Brake System

The WA1200-3 utilizes sealed wet disc type service brakes with an internal wet disc parking brake. Service brakes are part of an independent dual circuit system. The parking brake is a spring-actuated and hydraulically-released design. When brake oil pressure is too low, the parking brake is automatically engaged to prevent accidents and promote safe operation.

Safe Boarding and Exiting Machine

In addition to the boarding stairs, a rear step with safety handrail is provided. The step width, clearance, and the step angle have been designed for easy climbing both up and down. A step light provides light for night boarding.

SPECIFICATIONS

ENGINE

Model . . . . . Cummins QSK60
Type . . . . . Water-cooled, 4-cycle
Aspiration . . . . . Turbocharged and aftercooled
Number of cylinders 16
Bore x stroke . . . . . **159 mm x 190 mm** 6.26" x 7.48"
Piston displacement . . . . . **60.2 ltr** 3,674 in³
Governor . . . . . Electronic fuel control
Horsepower rating @ 1900 rpm
Gross power. . . . . **1280 kW** 1715 HP
Flywheel/net power . . . . . **1165 kW** 1560 HP

Meets 2000 EPA emissions regulations.

Fuel system . . . . . High pressure direct injection
Lubrication system
Method . . . . . Screw pump, forced lubrication
Filter . . . . . Full-flow
Air cleaner . . . . . Dry-type with double elements and automatic dust evacuation with dust indicator on monitor

TRANSMISSION

Torque converter . . . . . 3-element, single-stage, single-phase
Transmission . . . . . Full power shift, planetary gear with modulated clutch

Travel Speed*	Forward		Reverse	
1st	**6.3 km/h**	3.9 mph	**7.4 km/h**	4.6 mph
2nd	**11.5 km/h**	7.1 mph	**13.4 km/h**	8.3 mph
3rd	**19.8 km/h**	12.3 mph	**22.6 km/h**	14.0 mph

*Measured with 55.5/80-57 68PR (L5) tires

AXLES AND FINAL DRIVES

Drive system . . . . . Four-wheel drive
Front . . . . . Fixed, full floating
Rear . . . . . Center pin support, full floating 20° total oscillation
Reduction gear . . . . . Spiral bevel gear
Differential gear . . . . . Straight bevel gear
Final reduction gear. . . . . Planetary gear, double reduction, oil bath

BRAKES

Service brakes: Hydraulically-actuated, wet, multi-disc brakes actuated on four wheels.

Parking brake: Wet, multi-disc, hydraulically-released, spring applied in the transmission.

STEERING SYSTEM

Type . . . . . Articulated, fully-hydraulic power steering
Articulation angle . . . . . 40° each direction
Turning radius outside corner of bucket and teeth . . . **14330 mm** 47'0"

BUCKET CONTROLS

Control positions
Boom . . . . . Raise, hold, lower, and float
Bucket . . . . . Tilt-back, hold, and dump

HYDRAULIC SYSTEM

Rated capacity (discharge flow) @1900 engine rpm
Loader pump . . . . . **1045 ltr/min** 276 gal/min
Steering pump . . . . . **650 ltr/min** 172 gal/min
Switch pump . . . . . **650 ltr/min** 172 gal/min

Relief valve setting . . . . . **31.4MPa 320 kg/cm²** 4,550 psi

Control valves . . . . . A double spool closed-center hydraulic valve and a steering valve combined with a demand valve to provide optimum flow.

Hydraulic Cylinders	Number of Cylinders	Bore	Stroke
Boom	2	**360 mm** 14.2"	**1835 mm** 72.2"
Bucket	2	**300 mm** 11.8"	**1025 mm** 40.4"
Steering	2	**225 mm** 8.9"	**660 mm** 26.0"

Hydraulic cycle time (rated load in bucket): Total **21.5 sec**
Raise…**13.5 sec**/Dump…**3.0 sec**/Lower (empty)…**5.0 sec**

SERVICE REFILL CAPACITIES

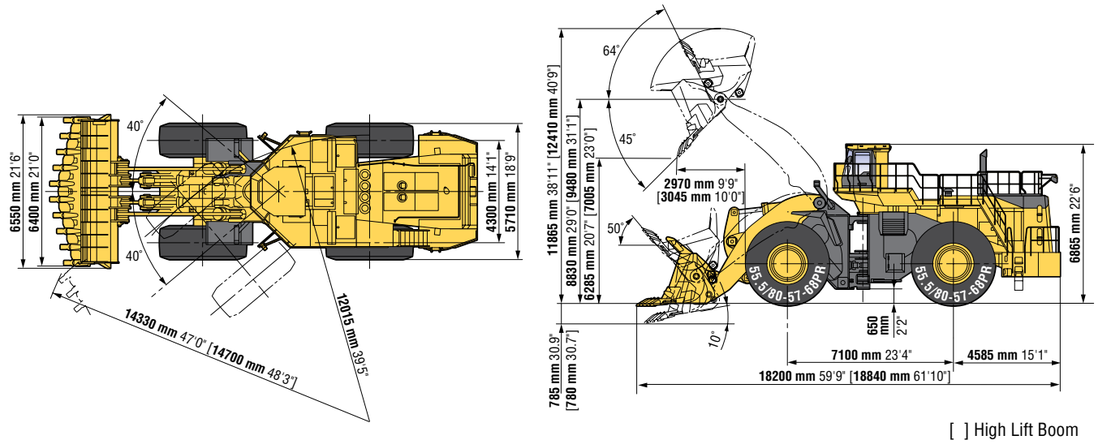
Cooling system . . . . . **500 ltr** 132 U.S. gal
Fuel tank . . . . . **5100 ltr** 1,347 U.S. gal
Engine. . . . . **260 ltr** 69 U.S. gal
Hydraulic system . . . . . **1200 ltr** 317 U.S. gal
Differential, final drive (each axle). . . . . **670 ltr** 177 U.S. gal
Torque converter and transmission . . . . . **350 ltr** 92 U.S. gal
Brake oil . . . . . **45 ltr** 12 U.S. gal
Brake cooling. . . . . **270 ltr** 71 U.S. gal

TIRES

Select proper tires based on job requirements.

Standard rim size 44.00-57
Standard tire size 55.5/80-57 68PR

DIMENSIONS



[ ] High Lift Boom

Bucket			Standard Boom, 20.0 m³ 26.2 yd³ Spade Nose Rock With Teeth		High Lift Boom, 18.0 m³ 23.5 yd³ Spade Nose Rock With Teeth	
Bucket capacity	SAE rated		**20.0 m³**	26.2 yd³	**18.0 m³**	23.5 yd³
	Struck		**17.2 m³**	22.5 yd³	**15.0 m³**	19.6 yd³
Bucket width			**6400 mm**	21'0"	**6400 mm**	21'0"
Bucket width with tire protector			**6550 mm**	21'6"	**6550 mm**	21'6"
Bucket weight			**23840 kg**	52,560 lb	**23170 kg**	51,080 lb
Static tipping loads	Straight	55.5/80-57 tire	**119800 kg**	264,100 lb	**106800 kg**	235,454 lb
		65/65-57 tire	**123800 kg**	272,900 lb	**110300 kg**	243,200 lb
	Full turn (40°)	55.5/80-57 tire	**104800 kg**	231,000 lb	**93500 kg**	206,100 lb
		65/65-57 tire	**107700 kg**	237,400 lb	**96000 kg**	211,600 lb
Dump clearance, maximum height and 45° dump angle (tooth end measure)		55.5/80-57 tire	**6285 mm**	20'7"	**7005 mm**	23'0"
		65/65-57 tire	**6350 mm**	20'10"	**7070 mm**	23'2"
Reach at maximum height and 45° dump angle (tooth end measure)		55.5/80-57 tire	**2970 mm**	9'9"	**3045 mm**	10'0"
		65/65-57 tire	**2905 mm**	9'6"	**2980 mm**	9'9"
Height to hinge pin	Fully raised	55.5/80-57 tire	**8830 mm**	29'0"	**9480 mm**	31'1"
		65/65-57 tire	**8895 mm**	29'2"	**9545 mm**	31'4"
Operating height	Fully raised	55.5/80-57 tire	**11865 mm**	38'11"	**12410 mm**	40'9"
		65/65-57 tire	**11930 mm**	39'2"	**12475 mm**	40'11"
Overall length	Bucket ground		**18200 mm**	59'9"	**18840 mm**	61'10"
Turning radius*			**14330 mm**	47'0"	**14700 mm**	48'3"
Digging depth	0°	55.5/80-57 tire	**290 mm**	11.4"	**260 mm**	10.2"
		65/65-57 tire	**175 mm**	6.9"	**195 mm**	7.7"
	10°	55.5/80-57 tire	**785 mm**	30.9"	**780 mm**	30.7"
		65/65-57 tire	**720 mm**	28.3"	**715 mm**	28.1"
Breakout force (bucket cylinder)			**1274 kN 130000 kg**	286,600 lb	**1236 kN 126000 kg**	277,782 lb
Operating weight		55.5/80-57 tire	**205200 kg**	452,390 lb	**208300 kg**	459,200 lb
		65/65-57 tire	**210200 kg**	463,400 lb	**213300 kg**	470,200 lb

- Static tipping load and operating weight shown include lubricants, coolant, full fuel tank, ROPS cab, front and rear fenders, and operator. Machine stability and operating weight are affected by counterweight, tire size, and other attachments. All dimensions, weights, and performance values based on SAE J732c and J742b standards.

* Turning radius measured with bucket at carry position, outside corner of bucket.