

KOMATSU®

BR550JG-1

FLYWHEEL HORSEPOWER
228 kW **306 HP** @ 1950 rpm

OPERATING WEIGHT
47500 kg **104,720 lb**



BR
550
JG



MOBILE CRUSHER

BR550JG-1 Mobile Crusher

WALK-AROUND

Komatsu's newly designed BR550JG-1 enters the market as the most technologically advanced machine available. With excellent crushing power and a production capacity of 100–460 ton/h **110–507 U.S. ton/h**, the Komatsu BR550JG-1 is the optimum choice for your work site.

Rotating lamp flashes to indicate travel mode, excessive load on crusher or abnormal condition.

High performance jaw. The FS4430QA maximum-capacity jaw provides high performance with a simple design that facilitates easy maintenance. Komatsu's unique design allows the discharge setting to be changed with a simple one-touch adjustment in less time than the competition.

Newly designed vibratory grizzly feeder.

The vibratory grizzly feeder vibrates the material with an elliptical movement, so that the materials are effectively separated and fed evenly into the jaw.

Folding hopper wings for easy loading and transport.

The hopper is accessible from three sides for material loading. The rear side is especially low—just 3365 mm **11'0"** high.

Outstanding mobility. Hydraulic steering and high travel speed make the crusher easy to relocate. The BR550JG-1 uses the same track undercarriage as Komatsu's hydraulic excavators.



BR550JG-1

MOBILE CRUSHER

HydraMind hydraulics and all-hydraulic drive system.

Fully hydraulic drive system gets you working right away. HydraMind system supplies the optimal amount of oil through load-sensing and pressure-compensated valves.

FLYWHEEL HORSEPOWER

228 kW **306 HP** @ 1950 rpm

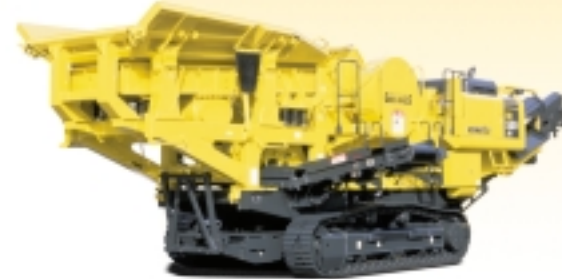
OPERATING WEIGHT

47500 kg **104,720 lb**

PRODUCTION CAPACITY

100–460 ton/h

110–507 U.S. ton/h



High-speed, large-capacity conveyor belt.

A 1050 mm **42"** wide belt moves at 120 m **394'** per minute. The discharge height is 3000 mm **9'10"**.

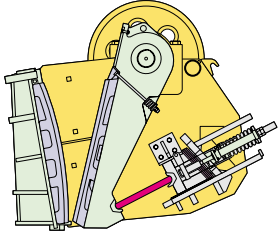
Komatsu's SAA6D125E-2 engine provides 228 kW **306 HP** @ 1950 rpm for maximum crushing power while keeping exhaust gas, noise, and vibration to a minimum.

Hydraulic conveyor lifter at the high position ensures adequate ground clearance when driving, and ample jaw discharge clearance when in the operation mode.

Sprinkler nozzle and a **connector** are standard.

Emergency shut-off buttons are installed on both the left and right sides of the chassis, control panel, and radio remote control (optional).

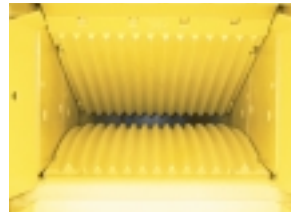
PRODUCTIVITY FEATURES



Equipped with FS4430QA Jaw Crusher

The powerful FS4430QA jaw crusher with bow-type fixed jaw at high rpm allows you to adjust setting ranges from 55 mm to 200 mm **2.2"–7.9"** (OSS) for maximum crushing capabilities, including concrete debris and hard rock. Komatsu's one-touch discharge setting adjustment also allows greater control over your crushing capacity.

Designed with the operator in mind, the crusher offers the most up-to-date technological advancement to assist with your crushing needs.



FS4430QA Jaw



GAP Adjust Cylinder



Adjustment Switch

- **Maximum crushing efficiency.** The Komatsu semi-automatic feeder system senses the load on the crusher and adjusts the feed rate accordingly to maximize efficiency for all types of rock and concrete debris.
- **Newly designed vibrating grizzly feeder.** By raising the feeder angle to an incline of 4° the muck is more effectively removed and the elliptical movement of the 2-stage grizzly feeder reduces clogging. Also, an optional muck conveyor is available to separate the materials.
- **High-speed, large-capacity conveyor belt.** A 1050 mm **42"** wide belt moves quickly to discharge crushed materials. Discharge height is 3 m **9'10"**, which facilitates stocking and screening the products.



Load-setting Control Dial



Cassette-type Grizzly Bar



3000 mm **9'10"**

Production Capacity

Maximum production capacity* (with a muck content of 30%).

Unit: ton/h U.S. ton/h

Material	Crusher Discharge Setting (open side)				
	55 mm 2.2"	70 mm 2.8"	100 mm 3.9"	150 mm 5.9"	200 mm 7.9"
Natural stone	—	—	130–180 143–198	200–280 220–309	280–400 309–441
Concrete debris	100–140 110–154	110–160 121–176	150–220 165–243	230–330 254–364	320–460 353–507

*The production capacity of the natural stones shown in the table is based on andesite having unconfined compression strength of about 1000 kg/cm² **14,225 psi**, that of the concrete debris is based on concrete debris containing no steel bars and all the material is assumed to be dry and equal to or smaller than the optimum feed-in material size.

The production capacity is the sum of the quantity of the material crushed by the crusher and the quantity of the material that passed through the grizzly bar. It depends on the type and properties of the material and the working condition.

When the crusher discharge setting is 55–100 mm **2.2"–3.9"**, only concrete debris can be crushed.

- **High mobility.** The overall height for transportation is reduced below 3.4 m 11'2" by employing hydraulic cylinders to fold the hopper. The BR550JG-1 has high ground clearance. The hydraulic conveyor lifting function ensures ample ground clearance when relocating the machine. The optional radio controller allows remote control travel functions.



Folding Hopper



Lifting Function of Conveyor

EASY MAINTENANCE AND SAFETY

Maximum Reliability and Minimal Maintenance. Komatsu equipment offers exceptional reliability and the leading edge in technological advancement. The new monitoring system improves maintenance, while standard features such as the pre-cleaner and double cleaner element are installed to improve dust resistance. A large clearance under the crusher means easier maintenance. Even if trouble occurs it can be repaired in a short time.

Comfortable Design. In addition to a low-noise engine made with sound-absorbing materials, Komatsu installs low-speed and high-torque hydraulic pumps, a muffler, and other standard parts to reduce noise and vibration. In addition, every crusher is equipped with a standard water sprinkler nozzle to suppress dust and improve the environment.

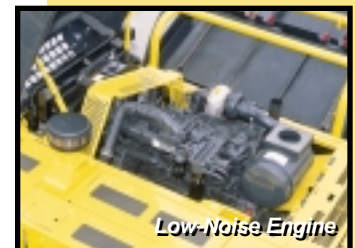
Easy Operation. The Mobile Crusher offers high-performance functions. The crusher setting can be completed in 3 minutes with the easy setting adjustment mechanism. The crusher, feeder, discharge conveyor belt, and optional equipment can all be operated at the touch of a button. With the optional remote control, operator control is maximized.

Safety

- Emergency shut-off buttons are located on the left and right sides of the chassis, on the control panel, and the remote control (optional).
- A rotating lamp flashes when there is a malfunction on the monitor display (for example, when overheating occurs) and the operator is also alerted by a buzzer in the event of an abnormal shut-down on the conveyor belt or optional equipment.
- A switch is provided to change between crushing and travel modes.
- Handrails and safety guards are provided for all sections.



Openings on Crusher Side



Low-Noise Engine



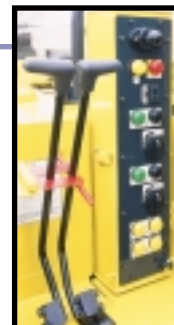
Water Sprinkler Nozzle



Main Control Panel



Upper Control Panel



SPECIFICATIONS



ENGINE

Model Komatsu SAA6D125E-2
 Type 4-cycle, water-cooled, direct injection
 Aspiration Turbocharged and aftercooled (air to air)
 Number of cylinders 6
 Bore 125 mm **4.92"**
 Stroke 150 mm **5.91"**
 Piston displacement 11.04 ltr **674 in³**
 Flywheel horsepower 228 kW **306 HP** @ 1950 rpm (SAE J1349)
 Governor All-speed, electrical



HYDRAULIC SYSTEM

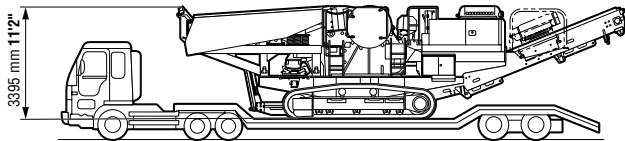
Type Variable capacity with pistons (inclined plate type)
 Main pump:
 Type Variable-capacity pistons
 Pumps for Travel, crusher, conveyor, and options
 Maximum flow 2 x 310 ltr/min **2 x 82 U.S. gpm**
 Maximum pressure 380 kg/cm² **5,405.5 psi**
 Maximum travel speed 3 km/h **1.9 mph**

Hydraulic system (travel, crusher, feeder, conveyor, and option):

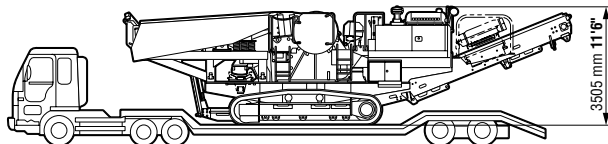
Travel	220 ltr/min	58 U.S. gpm
Crusher	325 ltr/min	86 U.S. gpm
Feeder	110 ltr/min	29 U.S. gpm
Main conveyor	90 ltr/min	24 U.S. gpm
Muck conveyor	47 ltr/min	12 U.S. gpm
Magnetic separator	36 ltr/min	10 U.S. gpm



TRANSPORTATION



Condition after rotary lamp assembly, muffler, pre-cleaner, and mirror assembly are removed.



Condition after only rotary lamp and muffler are removed.*
 (In some districts, the machine may need to be disassembled for transportation.)

Transport length	13430 mm	44'1"
Transport height	3395 mm	11'2"
Transport height*	3505 mm	11'6"
Transport width	2995 mm	9'10"

*Condition after only rotary lamp and muffler are removed.



OPERATING WEIGHT

Operating weight, including 500 mm shoes 47500 kg **104,720 lb**
 Production capacity 100–460 ton/h **110–507 U.S. ton/h**



CRUSHER

Jaw Komatsu FS4430QA
 Inlet size 1120 mm x 765 mm **44" x 30"**
 Discharge setting (O.S.S.) 55 mm to 200 mm **2.2" to 7.9"**
 Rotating speed (variable) 210–300 rpm



GRIZZLY FEEDER

Frequency Maximum 1000 cpm
 Size 1125 mm x 4105 mm **44" x 13'6"**
 Drive type Hydraulic gear motor



UNDERCARRIAGE

Seal of track Sealed track
 Track adjuster Hydraulic
 Number of shoes 45 each side
 Number of carrier rollers 2 sets/one side
 Number of track rollers 5 sets/one side



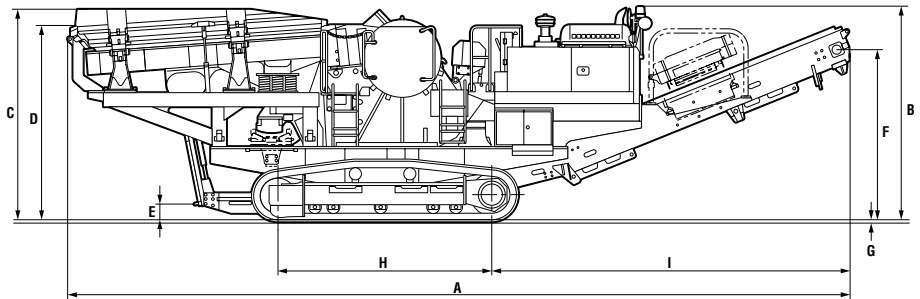
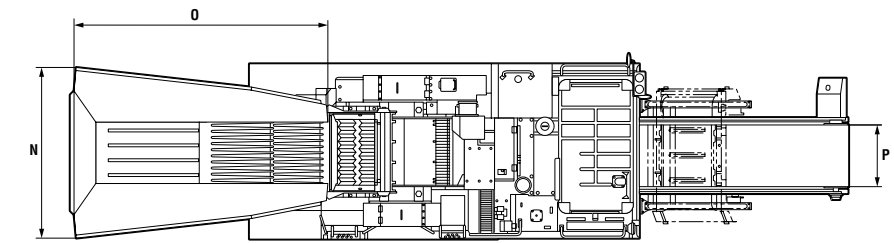
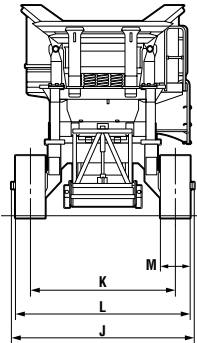
COOLANT AND LUBRICANT CAPACITY

Fuel tank	605 ltr	160 U.S. gal
Radiator	43.9 ltr	12 U.S. gal
Engine	38 ltr	10 U.S. gal
Final drive, each side	9 ltr	2.4 U.S. gal
Hydraulic system	370 ltr	98 U.S. gal

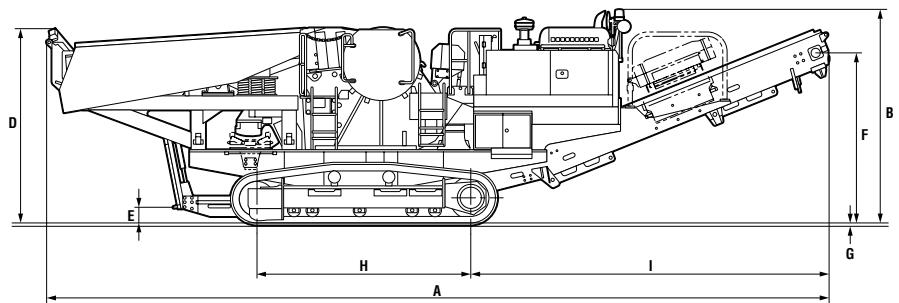
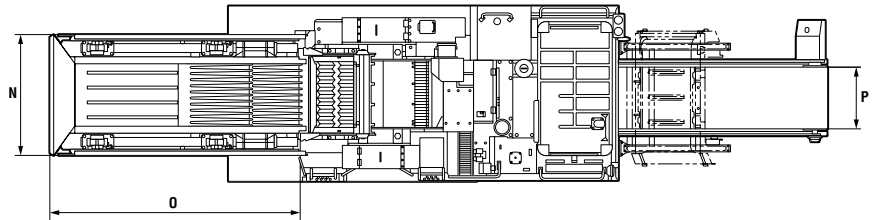
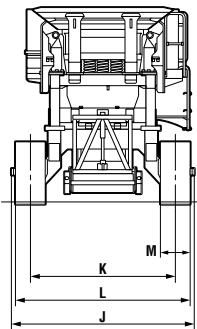


DIMENSIONS

When Operated



When Hopper Is Folded



A	Overall length	13430 mm	44'1"
B	Overall height	3640 mm	11'11"
C	Feed height—side	3640 mm	11'11"
D	Feed height—rear	3365 mm	11'0"
E	Minimum ground clearance (during travel)	350 mm	1'2"
F	Discharge height	3000 mm	9'10"
G	Track thickness	30 mm	1"
H	Length of track on ground	3700 mm	12'2"
I	Discharge from idler center	6145 mm	20'2"

J	Overall width	3115 mm	10'3"
K	Track gauge	2480 mm	8'2"
L	Track width	2980 mm	9'9"
M	Shoe width	500 mm	19.7"
N	Hopper width	2805 mm	9'2"
	Hopper width when folded	2130 mm	7'0"
O	Hopper length	4365 mm	14'4"
P	Discharge conveyor belt width	1050 mm	42"



STANDARD EQUIPMENT

ENGINE:

- Engine, Komatsu SAA6D125E-2
- 4-cycle, water-cooled, direct injection, turbocharged, and aftercooled (air to air)
- Net horsepower 228 kW **306 HP** @ 1950 rpm
- Fuel system:
 - Fuel, light oil, ASTM specification
 - Governor, centrifugal method, all-speed method
- Cooling fan, suction type
- Air cleaner, centrifugal method with paper filter

ELECTRICAL SYSTEM:

- Starting motor, 11 kW **24 V**
- Alternator, 50 ampere **24 V**
- Battery, 140 Ah **2 x 12 V**

UNDERCARRIAGE:

- Number of rollers:
 - Upper carrier, two sets/one side
 - Lower track, five sets/one side

SHOES:

- Assembled triple-grouser type, 500 mm **19.7"**
- Tension adjustment, grease cylinder method (cushion springs attached)

CRUSHER:

- Type, FS4430QA single-toggle crusher
- Size, 1120 mm x 765 mm **44" x 30"**
- Rotation, 210–300 rpm
- Drive method, hydraulic motor with V-belt

FEEDER:

- Type, 2-step deck
- Speed-controlled grizzly feeder
- Dimensions (W x L), 1125 mm x 4105 mm **44" x 13'6"**
- Grizzly bar opening, 45–70 mm **1.77"–2.76"**
- Drive method, hydraulic gear motor

BELT CONVEYOR:

- Width x length, 1050 mm x 10135 mm **42" x 33'3"**
- Speed, 120 m/min **394 ft/min**
- Drive method, hydraulic piston motor



OPTIONAL EQUIPMENT

MAGNETIC SEPARATOR:

- Magnetic separator for primary conveyor, 900 mm **35"** wide



Magnetic Separator

MUCK CONVEYOR:

- Muck conveyor assembly can be folded by hydraulic cylinder, 4000 mm x 600 mm **13'1" x 2'**



Muck Conveyor

RADIO REMOTE CONTROLLER:



Function:

- Travel Left/Right/Forward/Reverse
- Crusher On/Off
- Feeder On/Off
- One-Touch Deceleration On/Off
- Emergency Shutoff
- Horn

Remote Controller

AESS570-00

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SN5(3M)C DataKom

5/01 (EV-1)

KOMATSU®

Komatsu America International Company
440 N. Fairway Dr., Vernon Hills, IL 60061

