

KOMATSU

BR
550



BR550JG-1

BR550JG-1

MOBILE CRUSHER

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

OPERATING WEIGHT
47.500 kg

WALK-AROUND

Komatsu's newly designed BR550JG-1 enters the market as the most technologically advanced machine available. With excellent crushing power and a treatment capacity of **100–460 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

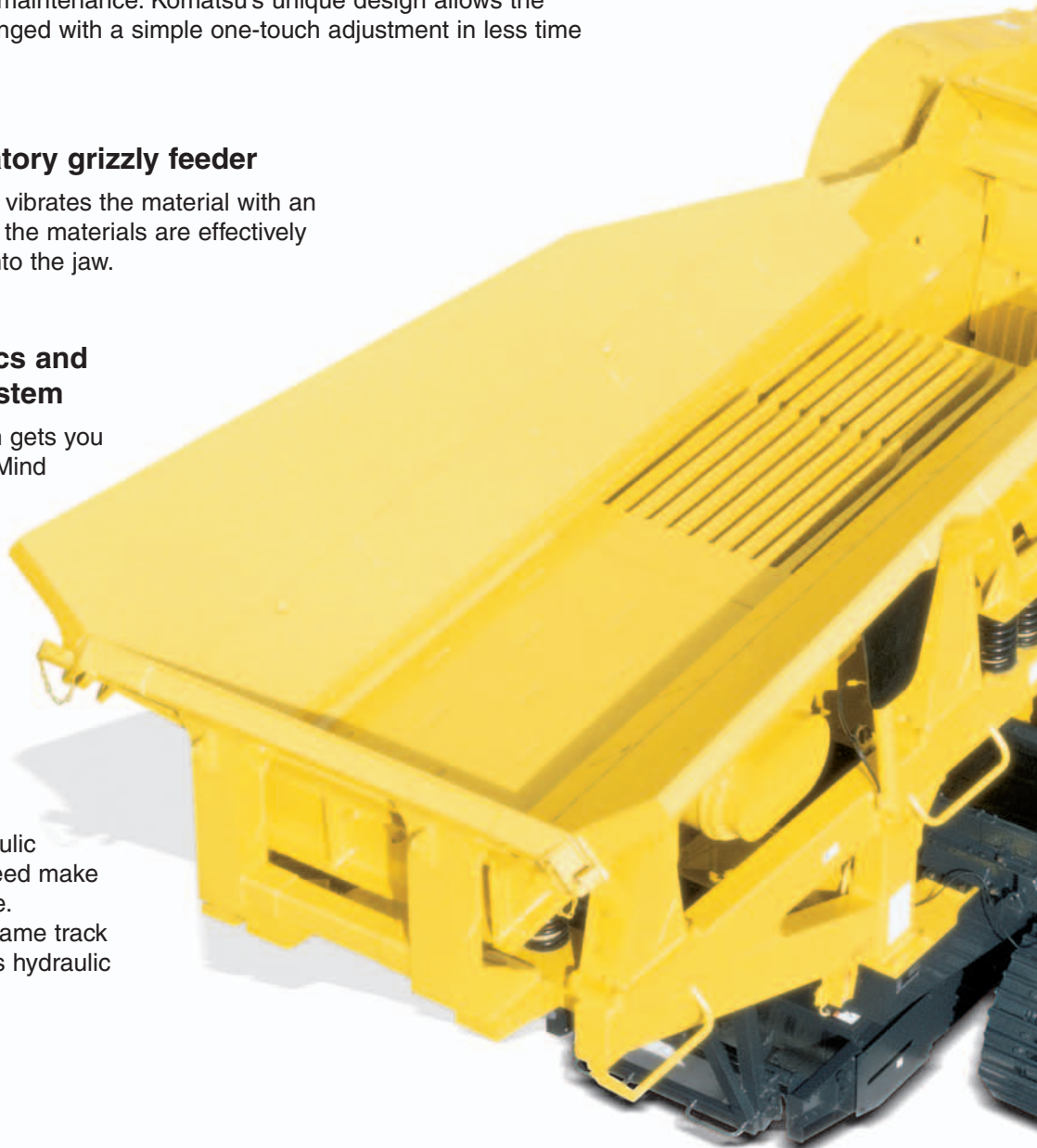
The vibratory grizzly feeder vibrates the material with an elliptical movement, so that the materials are effectively separated and fed evenly into the jaw.

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. Optional equipment can be connected through hydraulic outlets in the chassis.

Outstanding mobility

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

FLYWHEEL HORSEPOWER
228 kW 306 HP @ 1.950 rpm

OPERATING WEIGHT
47.500 kg

TREATMENT CAPACITY
100-460 ton/h

Foldable hopper for easy loading and transport

The hopper is accessible from three sides for material loading. The rear side is especially low—just **3.365 mm** high.



High-speed, large-capacity conveyor belt

A **1.050 mm (1.000 mm)** wide belt moves at **120 m** per minute. The discharge height is **3.000 mm**.

Komatsu's SAA6D125E-2 engine

provides 228 kW 306 HP @ 1.950 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 safe driving even when on uneven ground.

Sprinkler nozzle

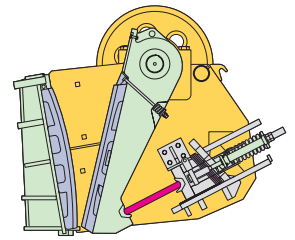
and a **connector** are standard.

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

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



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** (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.



FS4430QA Jaw



GAP Adjust Cylinder

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.



FS4430QA Jaw



Adjustment Switch



Load-setting Control Dial

Hopper for easy loading

The loading height of the hopper is only **3.365 mm** (rear side).

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 **1.050 mm (1.000 mm)** wide belt moves quickly to discharge crushed materials. Discharge height is 3 m, which facilitates stocking and screening the products.

High-volume capacity

By utilizing the latest technology in the development of the large-sized, high-speed crusher, the Mobile Crusher maximizes the volume of materials that can be crushed and passed through the grizzly feeder.

Treatment Capacity

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

Unit: ton/h

Material	Crusher Discharge Setting (open side)				
	55 mm	70 mm	100 mm	150 mm	200 mm
Natural stone	—	—	130-180	200-280	280-400
Concrete debris	100-140	110-160	150-220	230-330	320-460

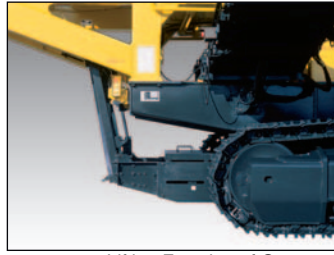
*The treatment capacity of the natural stones shown in the table is based on andesite having unconfined compression strength of about **1.000 kg/cm²**, that of the concrete debris is based on concrete debris containing no steel bars and all the material is assumed to be dry and equal to or smaller than the optimum feed-in material size.

*The treatment 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**, only concrete debris can be crushed.



Folding Hopper



Lifting Function of Conveyor

High mobility

The overall height for transportation is reduced below **3,4 m** by employing the hydraulic cylinder to fold the hopper. The BR550JG-1 has high ground clearance. The hydraulic conveyor elevator function ensures ample ground clearance when relocating the machine. The optional radio controller allows remote control travel functions.

EASY MAINTENANCE AND SAFETY

Maximum Reliability and Minimal Maintenance

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



Opening on crusher side



Low noise engine



Water sprinkler nozzle

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.

Upper Control Panel



Main 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
 Stroke 150 mm
 Piston displacement 11,04 ltr
 Flywheel horsepower . . . 228 kW 306 HP @ 1.950 rpm (SAE J1349)
 Governor All-speed, electrical



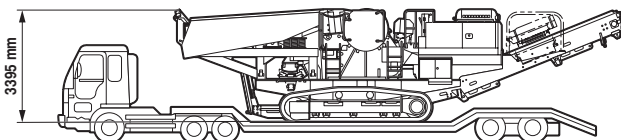
HYDRAULIC SYSTEM

Type Variable capacity with pistons (inclined plate type)
 Main pump Variable-capacity piston pump
 Type Variable-capacity pistons
 Pumps for Travel, crusher, conveyor, and options
 Maximum flow 2 x 310 ltr/min
 Maximum pressure 380 kg/cm²
 Maximum travel speed 3 km/h

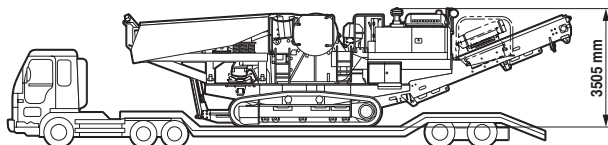
Hydraulic system (travel, crusher, feeder, conveyor, and option):
 Travel 220 ltr/min
 Crusher 325 ltr/min
 Feeder 110 ltr/min
 Main conveyor 90 ltr/min
 Muck conveyor 47 ltr/min
 Magnetic separator 36 ltr/min



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	13.430 mm
Transport height	3.395 mm
Transport height*	3.505 mm
Transport width	2.995 mm

* Condition after only rotary lamp and muffler are removed.



OPERATING WEIGHT

Operating weight, including 500 mm shoes 47.500 kg
 Treatment capacity 100–460 ton/h



CRUSHER

Jaw Komatsu FS4430QA
 Inlet size 1.120 mm x 765 mm
 Discharge setting (O.S.S.) 55 mm to 200 mm
 Rotating speed (variable) 210–300 rpm



GRIZZLY FEEDER

Frequency Maximum 1.000 cpm
 Size 1.125 mm x 4.105 mm
 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



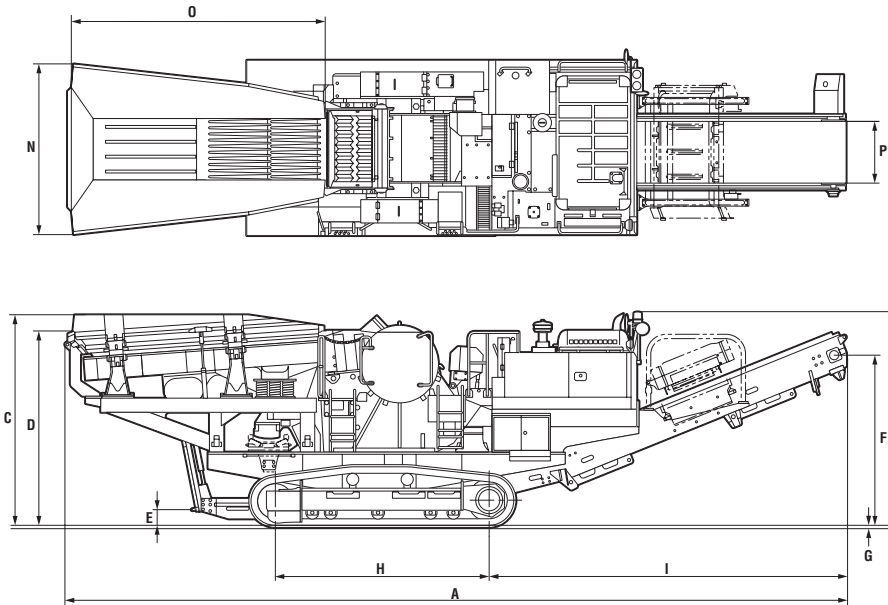
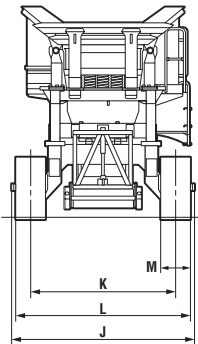
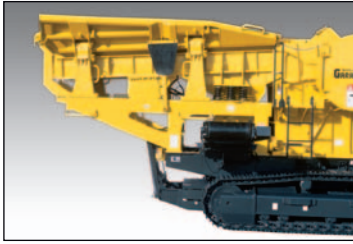
COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 605 ltr
 Radiator 43,9 ltr
 Engine 38 ltr
 Final drive, each side 9 ltr
 Hydraulic system 370 ltr

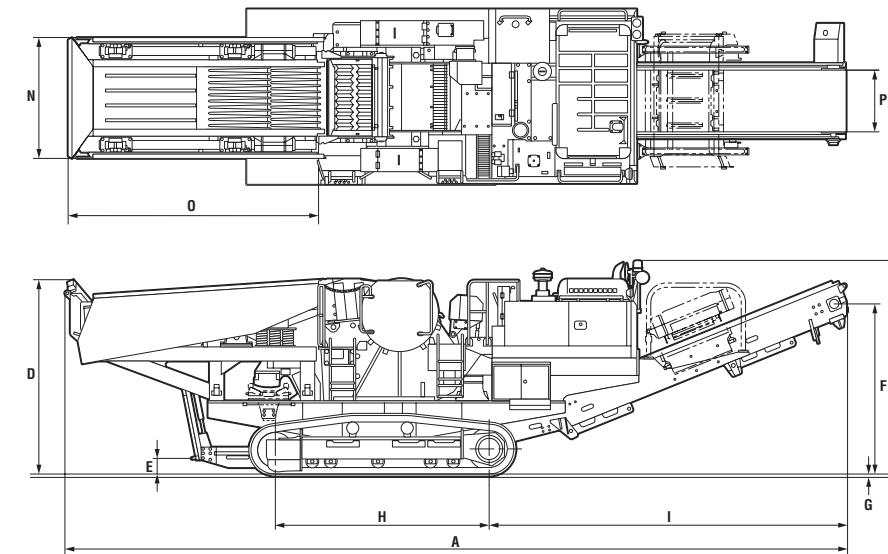
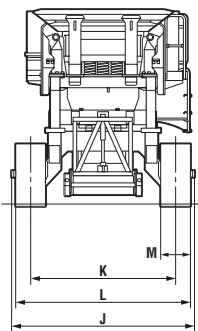


DIMENSIONS

When Operated



When Hopper Is Folded



A Overall length	13.430 mm
B Overall height	3.640 mm
C Feed height-side	3.640 mm
D Feed height-rear	3.365 mm
E Minimum ground clearance (during travel)	350 mm
F Discharge height	3.000 mm
G Track thickness	30 mm
H Length of track on ground	3.700 mm
I Discharge from idler center	6.145 mm

J Overall width	3.115 mm
K Track gauge	2.480 mm
L Track width	2.980 mm
M Shoe width	500 mm
N Hopper width	2.805 mm
N Hopper width when folded	2.130 mm
O Hopper length	4.365 mm
P Discharge conveyor belt width	1.050 mm
Note: 1000 mm is available	

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 @ 1.950 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**
- Tension adjustment, grease cylinder method (cushion springs attached)

CRUSHER:

- Type, FS4430QA single-toggle crusher
- Size, **1.120 mm x 765 mm**
- Rotation, 210–300 rpm
- Drive method, hydraulic motor with V-belt

FEEDER:

- Type, 2-step deck
- Speed-controlled grizzly feeder
- Dimensions (W x L), **1.125 mm x 4.105 mm**
- Grizzly bar opening, **45–70 mm**
- Drive method, hydraulic gear motor

BELT CONVEYOR:

- Width x length, **1.050 mm x 10.135 mm**
- Speed, **120 m/min**
- Drive method, hydraulic piston motor

OPTIONAL EQUIPMENT

MAGNETIC SEPARATOR:

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

MUCK CONVEYOR:

- Muck conveyor assembly can be folded by hydraulic cylinder, 4.000 mm x 600 mm

RADIO REMOTE CONTROLLER:

Function:

- Travel Left/Right/
- Forward/Reverse
- Crusher On/Off
- Feeder On/Off

- One-Touch Deceleration On/Off
- Emergency Shutoff
- Horn



Magnetic Separator



Muck Conveyor



Remote Controller

KOMATSU

Komatsu Europe International NV

Mechelsesteenweg 586
B-1800 VILVOORDE (BELGIUM)
Tel. +32-2-255 24 11
Fax +32-2-252 19 81
www: komatsueurope.com