

# **NONMETALLIC MINERAL PROCESSING PLANTS (CRUSHERS) AIR GENERAL PERMIT REGISTRATION FORM**

## **Part II. Notification to Permitting Office**

(Detach and submit to appropriate permitting office; keep copy onsite)

**Instructions:** To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050(4)(o), F.A.C. (\$100 as of the effective date of this form)

### **Registration Type**

Check one:

#### **INITIAL REGISTRATION** - Notification of intent to:

- ☒ Construct and operate a proposed new facility.  
☐ Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

#### **RE-REGISTRATION** (for facilities currently using an air general permit) - Notification of intent to:

- ☐ Continue operating the facility after expiration of the current term of air general permit use.  
☐ Continue operating the facility after a change of ownership.  
☐ Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

### **Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only**

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- ☐ All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): \_\_\_\_\_  
☒ No air operation permits currently exist for this facility.

### **General Facility Information**

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

**GOODWIN BROS CONSTRUCTION, INC.**

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)

**FLORIDA ROCK, BROOKSVILLE PLANT** - 0530050-015-A0

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: **14556 Ponce de Leon Boulevard**

City: **Brooksville**

County: **Hernando**

Zip Code: **34605**

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility)

**N/A**

**Owner/Authorized Representative**

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: **Daniel R. Goodwin, Secretary of Treasury**

**Owner/Authorized Representative Mailing Address**

Organization/Firm: **Goodwin Bros Construction, Inc.**

Street Address; **14341 Ponce de Leon Boulevard**

City: **Brooksville**

County: **Hernando**

Zip Code: **34601**

**Owner/Authorized Representative Telephone Numbers**

Telephone: **352-796-0149**

Fax: **352-544-1084**

Cell phone (optional):

**352-279-7055**

**Facility Contact (If different from Owner/Authorized Representative)**

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: **David Goodwin, Supervisor**

**Facility Contact Mailing Address**

Organization/Firm: **Goodwin Bros Construction, Inc.**

Street Address; **P.O. Box 1689**

City: **Brooksville**

County: **Hernando**

Zip Code: **34605**

**Facility Contact Telephone Numbers**

Telephone: **352-796-0149**

Fax: **352-544-1084**

Cell phone (optional):

**352-279-7055**

**Owner/Authorized Representative Statement**

This statement must be signed and dated by the person named above as owner or authorized representative

*I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.*

*I will promptly notify the Department of any changes to the information contained in this registration form.*

Signature



Date

*Feb 20 09*

**Type of Facility**

Check one:

☐ Stationary Facility☒ Relocatable Facility**Type(s) of Precautions Used to Prevent Unconfined Emissions**

Check all that apply for the management of roads, parking areas, stock piles and yards:

☒ Maintain Roads/Parking/Yards☒ Use Water Application☐ Use Dust Suppressant☒ Remove Particulate Matter☒ Reduce Stock Pile Height☐ Install Wind Breaks

Check the location of spray bars at the nonmetallic mineral processing plant:

☐ Feeders☒ Entrance to "Crusher"☐ Exit of "Crusher"☐ Classifier Screens☐ Conveyor Drop Points**Description of Reasonable Precautions**

Below, or as an attachment to this form, provide details of all types of reasonable precautions to be used to prevent unconfined emissions at the facility.

**Unconfined emissions generated by rock processing activities are controlled by good housekeeping practices. These good housekeeping practices include, but are not limited to timely cleanup of waste piles, limiting material stockpile heights, removal of materials from and applying water to driveways where the portable crusher is located and operating the water sprayers at the crusher exit whenever necessary.**

### Description of Facility

Below, or as an attachment to this form, provide a description of the nonmetallic mineral processing operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

This application is for a portable crusher that will be used at various locations throughout Florida. The portable crusher is described as:

**KOMATSU PORTABLE JAW CRUSHER**

**YEAR - 2006**

**MODEL - BR 380 (SEE ATTACHED BROCHURE)**

Consisting of:

Vibrating Grizzly Feeder

Jaw Crusher

Stacker/Transfer Conveyor, 42 " width

Muck Conveyor, 20" width

Diesel, 187 HP

Track driven

2/25/09 - PER CONVERSATION W/DAVID GOODWIN  
THEY CRUSH ROCK FOR FLORIDA ROCK,  
ALSO FOR THEMSELVES. ROCK IS  
MINED FROM FLORIDA ROCK MINE/  
BROOKSVILLE. THEY ARE LOCATED  
ON FLORIDA ROCK MINE PROPERTY.  
D. Little

# KOMATSU®

## BR380JG-1 With Tier 3 Engine

**NET HORSEPOWER**  
140 kW 187 HP @ 2050 rpm

**OPERATING WEIGHT**  
32700 kg 72,090 lb

**BR  
380  
JG**

MOBILE CRUSHER



Photos may include optional equipment

## BR380JG-1 MOBILE CRUSHER

# WALK-AROUND

The newly designed Komatsu BR380JG-1 mobile crusher looks simple but is very powerful. The upgraded Komatsu designed crusher offers maximum production capacity.

**Newly designed vibrating grizzly feeder** The vibrating grizzly feeder moves the material elliptically, so the material can be effectively separated and fed evenly into the jaw.

### **HydrauMind hydraulics and all-hydraulic drive system**

Fully hydraulic drive system gets you working right away. The HydrauMind system supplies the optimal amount of oil through load-sensing and pressure-compensated valves. Optional equipment can be connected at the hydraulic outlets on the chassis (option).

### **Large-capacity hopper**

The 2500 mm 8'2" x 3770 mm 12'4" feed hopper is accessible from three sides for material loading.

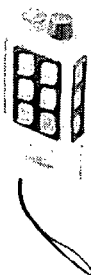
### **KOMTRAX**

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.

### **High-performance jaw**

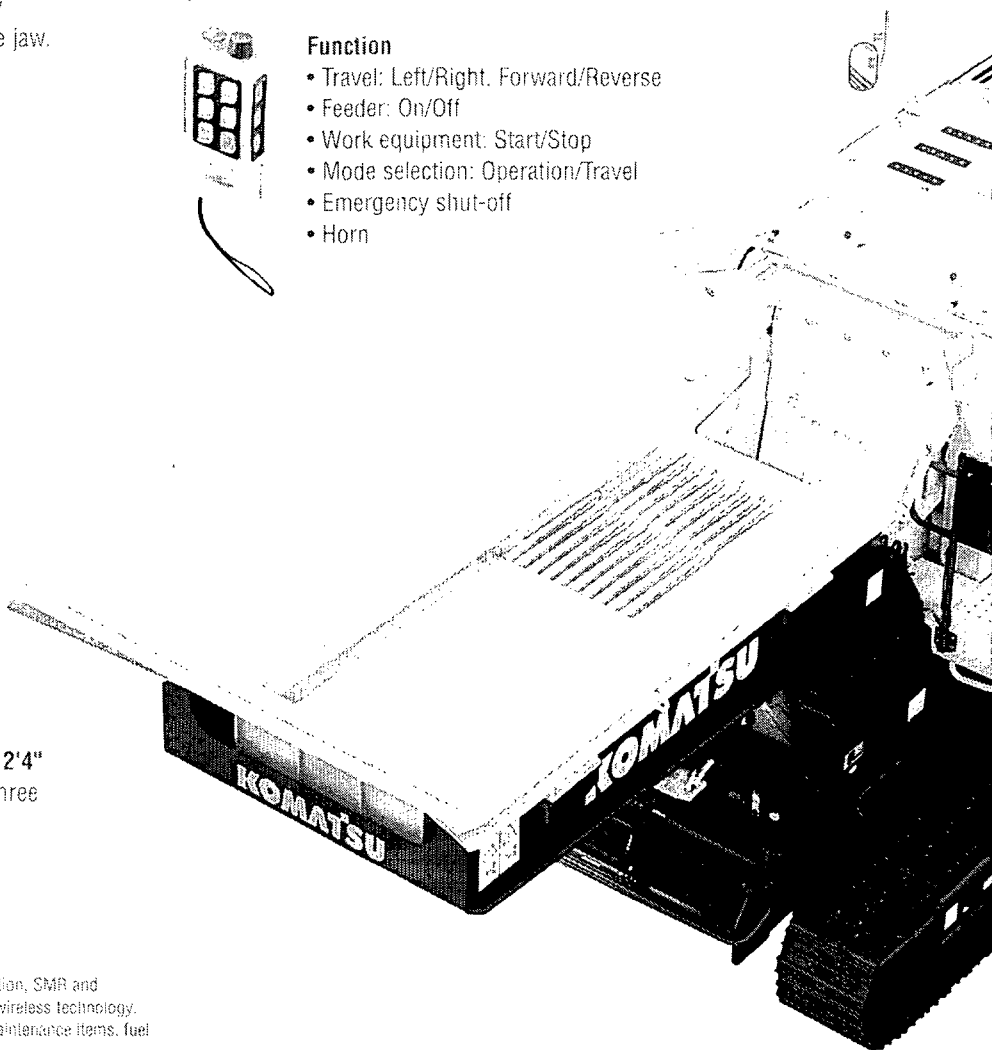
The KCJ4222 large-capacity jaw crusher provides maximum crushing capacity in this class along with easy maintenance. In addition, Komatsu's locking cylinder mechanism allows you to change the discharge clearance with a simple one-touch adjustment and also facilitates the removal of clogged foreign material from the discharge side.

### **Radio remote control provided** as standard equipment



#### **Function**

- Travel: Left/Right, Forward/Reverse
- Feeder: On/Off
- Work equipment: Start/Stop
- Mode selection: Operation/Travel
- Emergency shut-off
- Horn



## MOBILE CRUSHER

# BR380JG-1

### NET HORSEPOWER

140 kW **187 HP** @ 2050 rpm

### OPERATING WEIGHT

32700 kg **72,090 lb**

### *High-speed, large-capacity conveyor belt*

A 1050 mm **42"** wide conveyor belt travels at 120 m **394'** per minute. The discharge height is 2800 mm **9'2"**.

### *SAA6D107E-1 turbocharged after-cooled diesel engine*

provides 140 kW **187 HP net** for superior crushing power and is EPA Tier 3 emission certified.

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

### *Sprinkler nozzles and a connector*

are standard at the jaw entry and the main conveyor discharge.

### *Outstanding mobility*

Hydraulic steering and high-travel speed make the machine easy to relocate. The BR380JG-1 uses the same track undercarriage as Komatsu's hydraulic excavators.

*Hydraulic conveyor lifter* in the up position ensures adequate ground clearance even on rough ground. The mobile crusher uses a new interlock system that controls the travel, to prevent the conveyor from being dragged or colliding with the ground, depending on the conveyor's position.

Photos may include optional equipment

## BR380JG-1 MOBILE CRUSHER

# PRODUCTIVITY FEATURES



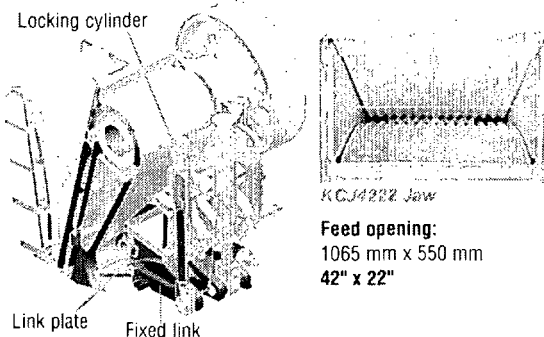
**ecology & economy - technology 3**

### Equipped with an eco-friendly engine

Komatsu's new "ecot3" engines are designed to deliver optimum performance under the toughest of conditions, while meeting the latest environmental regulations. This engine is Tier 3 EPA certified — ecology and economy combined with Komatsu technology to create a high performance engine without sacrificing power or productivity.

### New Komatsu jaw crusher largest in its class

The large-capacity jaw crusher, KCJ4222, is another successful example of Komatsu's development efforts. Crushing efficiency is improved dramatically with the installation of a load-presetting semiautomatic feeder system and the increase of the crusher rotation speed.

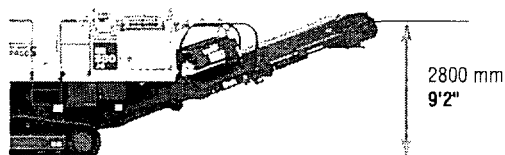


### Large production capacity

Komatsu's original large-capacity jaw crusher and the most advanced control have considerably increased its output capacity, making it easy to manage large workloads.

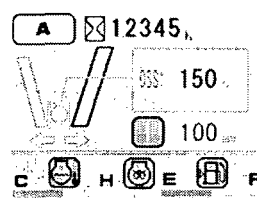
### High-speed, large-capacity conveyor belt

The high discharge height of 2800 mm 9'2" makes it easy to configure a system with stock pile conveyor and screens. With its width of 1050 mm 42" and a belt speed of 120 m 394' /min., the belt conveyor has a high volume capacity. In addition, the conveyor reverse mode is provided to facilitate the removal of jammed foreign material.



### Fully automatic discharge setting adjustment system

The jaw crusher is equipped with an automatic discharge setting adjustment system that makes it easy to change the opening of the discharge port. Even as either or both jaw plates wear, you can adjust the discharge setting with a simple one-touch operation (adjustable within several minutes) with this automatic system. On the monitor panel, you can choose one of the three adjustment modes. (Patent pending).



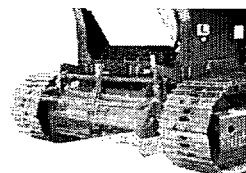
Mode A: Input a desired value for the discharge setting.  
Mode B: Increase or decrease the current discharge setting.  
Mode C: Press the manual switch to increase or decrease the present discharge setting.

### The first hydraulic crusher protection mechanism in the world

Jaw crushers typically protect themselves by bending toggle plates when they are clogged or jammed with metal or wood debris. The KCJ4222 protects itself by allowing the locking cylinders to relieve the excess load and then to fully open the discharge port, which makes it easy to remove clogged foreign material from the crusher. (Patent pending)

### High mobility

The conveyor elevation system secures sufficient ground clearance, which provides the crusher with outstanding maneuverability at any crushing site. In addition, improved configuration and location of the guide handle make it much easier to operate the conveyor lifter. The mobile crusher uses a new interlock system that controls the travel, to prevent the conveyor from being dragged or colliding with the ground, depending on the conveyor's position.



Conveyor Elevation System

### Minimum ground clearance

Travel:  
200/300 mm 7.9"/12"  
Operation (Crushing):  
100/200 mm 3.9"/7.9"

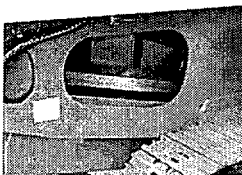
\* "Travel" is prohibited by interlock when the ground clearance is 100mm 3.9".



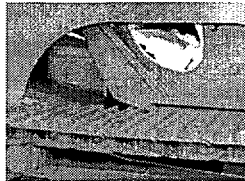
# MAINTENANCE FEATURES

## Maximum reliability and minimal maintenance

In addition to the spacious clearance of 530 mm 1'9" between the jaw crusher and the conveyor belt, the crusher's bottom area is sealed with covers. This design prevents steel bars from being caught by the crusher's member structure. Wide openings on the side frames also ensure easy access to the space below the crusher to remove clogged foreign material.



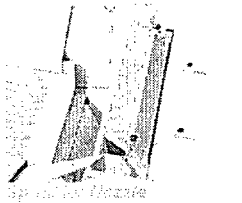
Opening In The Engine Side



Covering In The Crusher Side  
(You Can See Up Underneath)

## Comfortable design

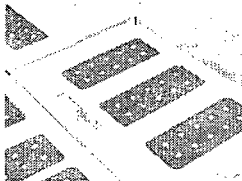
- To prevent dust, sprinkler nozzles are provided as a standard attachment at the top of the jaw crusher and over the conveyor head pulley.



Sprinkler Nozzle

## • Anti-slip plates

Highly durable anti-slip plates maintain superior traction.

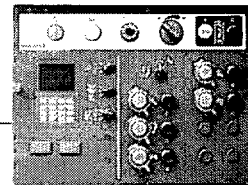
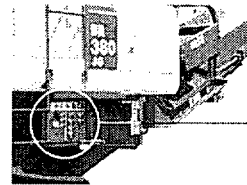


## • Thermal and fan guard

Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.

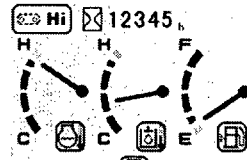
## Easy operation

- All the switches necessary for operation are located on the main control panel, making it easier for the operator standing on the ground to reach and control the operation. As the control system is equipped with the one-touch start feature, all you have to do is to push the start switch. This simple operation will sequentially start the operation of the magnetic separator, belt conveyors, jaw crusher, and feeder.

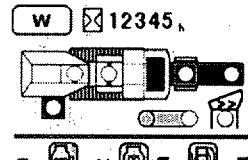


Main Control Panel

- The multi-function monitor displays the status of all components in real time. With this monitor, you can easily identify the location of a problem.



Multi-Function Monitor



Multi-Function Monitor

## • Radio remote controller

With this controller, you can change the mode between "Travel" and "Operation", while remaining on-board. You can also use it to operate the one-touch Start/Stop feature, in addition to the feeder On/Off function.

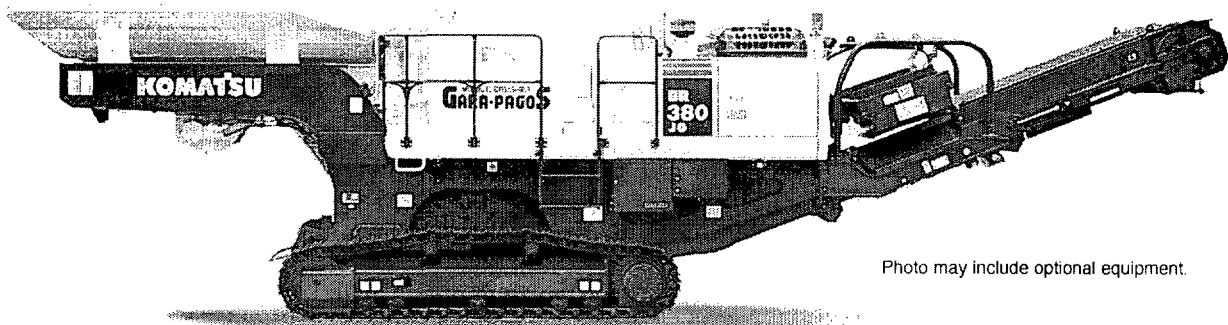


Photo may include optional equipment.

## BR380JG-1 MOBILE CRUSHER

# SPECIFICATIONS



### ENGINE

Model ..... Komatsu SAA6D107E-1\*  
Type ..... 4-cycle, water-cooled, direct injection  
Aspiration ..... Turbocharged and air-to-air aftercooled  
Number of cylinders ..... 6  
Bore ..... 107 mm **4.21"**  
Stroke ..... 124 mm **4.88"**  
Piston displacement ..... 6.69 ltr **408 in<sup>3</sup>**  
Horsepower  
SAE J1995 ..... Gross 149 kW **200 HP**  
ISO 9249/SAE J1349 ..... Net 140 kW **187 HP**  
Rated rpm ..... 2050 rpm  
Governor ..... All-speed, electrical

\*Tier 3 certified



### HYDRAULIC SYSTEM

Type ..... HydrauMind (Hydraulic Mechanical Intelligence New Design)  
system, closed-center system with load-sensing and  
pressure-compensated valves

Main pumps:

Type ..... Variable-displacement piston  
Pumps for hydraulic system

Travel, crusher, feeder, conveyor and 2 equipment options  
Maximum flow ..... 2 x 230 ltr/min **2 x 60.8 U.S. gal/min**  
Maximum pressure ..... 37.3 MPa 380 kg/cm<sup>2</sup> **5,400 psi**  
Maximum travel speed ..... 3 km/h **1.9 mph**  
System oil flow (travel, crusher, feeder, conveyor, and option):

Travel ..... 2 x 160 ltr/min **2 x 42.3 U.S. gal/min**  
Crusher ..... 230 ltr/min **60.8 U.S. gal/min**  
Feeder ..... 58 ltr/min **15.3 U.S. gal/min**  
Conveyor ..... 38 ltr/min **10.0 U.S. gal/min**  
Option ..... 28 ltr/min **7.4 U.S. gal/min**



### OPERATING WEIGHT

Operating weight, including 500 mm 20° shoes ..... 32700 kg **72,090 lb**



### UNDERCARRIAGE

Track type ..... Sealed track  
Track adjuster ..... Hydraulic  
Number of shoes ..... 45 each side  
Number of carrier rollers ..... 2 each side  
Number of track rollers ..... 7 each side



### TRANSPORTATION

Transport length ..... 12640 mm **41'6"**  
Transport height ..... 3360 mm **11'0"**  
Transport width ..... 2870 mm **9'5"**



### CRUSHER

Jaw ..... Komatsu KCJ4222  
Inlet size ..... 1065 mm x 550 mm **42" x 22"**  
Discharge setting (O.S.S.) ..... 50 mm to 150 mm **2.0" to 5.9"**  
Rotating speed (variable) ..... 150 – 300 rpm  
Drive type ..... Hydraulic motor with belt

### Production Capacity

Maximum production capacity (with a muck content of 30%). Unit: ton/h U.S. ton/h

Material	Crusher Discharge Setting (open side)			
	50 mm <b>2.0"</b>	80 mm <b>3.1"</b>	120 mm <b>4.7"</b>	150 mm <b>5.9"</b>
Natural stone	50 – 70 <b>55 – 77</b>	80 – 115 <b>88 – 127</b>	125 – 180 <b>138 – 198</b>	170 – 240 <b>187 – 265</b>
Concrete debris	60 – 85 <b>66 – 94</b>	90 – 130 <b>99 – 143</b>	125 – 175 <b>138 – 193</b>	— <b>—</b>

Note: 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 conditions



### GRIZZLY FEEDER

Frequency (variable) ..... Maximum 1100 cpm  
Size ..... 1000 mm x 3070 mm **40" x 10'1"**  
Amplitude (not loaded, all amplitude) ..... 8.0 mm **0.3"**  
Grizzly bar opening ..... 25–50 mm **1.0–2.0"**  
Drive type ..... Hydraulic motor



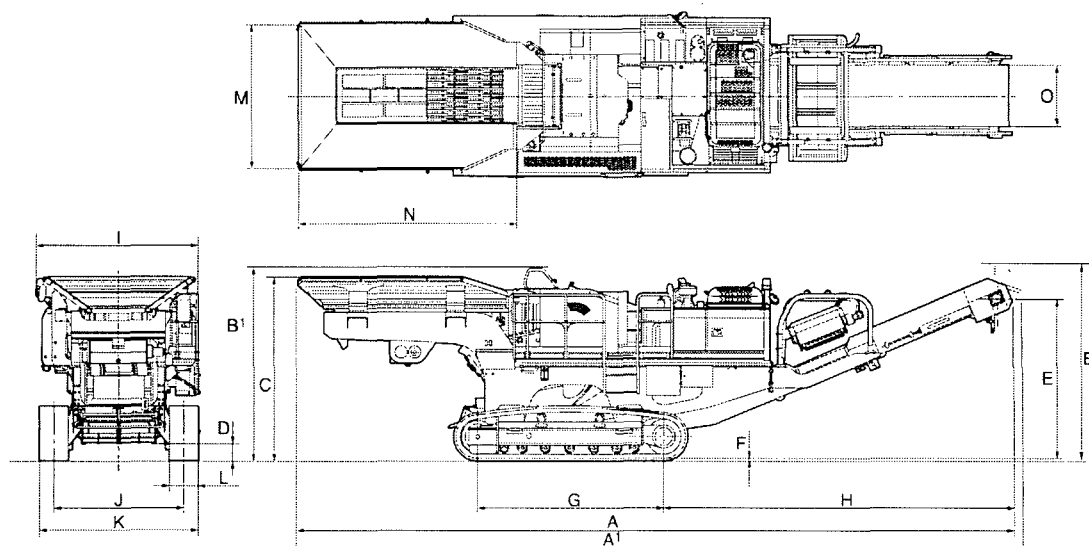
### COOLANT AND LUBRICANT CAPACITY

Fuel tank ..... 400 ltr **105.7 U.S. gal**  
Radiator ..... 28 ltr **7.4 U.S. gal**  
Engine ..... 26 ltr **6.9 U.S. gal**  
Final drive, each side ..... 4.5 ltr **1.2 U.S. gal**  
Hydraulic system ..... 209 ltr **55.2 U.S. gal**



### MAIN DISCHARGE CONVEYOR

Width x length ..... 1050 mm x 9550 mm **42" x 31'3"**  
Belt speed ..... 120 m/min **394 ft/min**  
Drive type ..... Hydraulic motor

**DIMENSIONS**

A	Overall length	12500 mm	41'0"
A'	Transport length	12640 mm	41'6"
B	Overall height (spray nozzle)	3590 mm	11'9"
B'	Transport height (crusher guard)	3360 mm	11'0"
C	Feed height	3200 mm	10'6"
D	Minimum ground clearance (traveling)	300 mm	12"
E	Discharge height	2800 mm	9'2"
F	Grouser height	26 mm	1"
G	Length of track on ground	3275 mm	10'9"
H	Discharge from final drive center	6080 mm	19'11"

I	Overall width	2870 mm	9'5"
J	Track gauge	2280 mm	7'6"
K	Track width	2780 mm	9'1"
L	Shoe width	500 mm	20"
M	Hopper width	2500 mm	8'2"
N	Hopper length	3770 mm	12'4"
O	Discharge conveyor belt width	1050 mm	42"



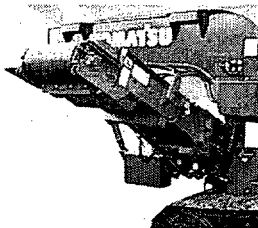
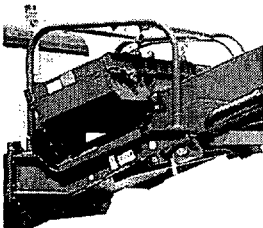
## STANDARD EQUIPMENT

- Alternator, 35 ampere 24 V
- Anti-slip plates
- Automatic deaeration system for fuel line
- Automatic engine warm-up system
- Batteries, large capacity
- Conveyor protection plate
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-1
- Engine overheat prevention system
- Fan guard structure
- Hydraulic track adjusters (each side)
- KOMTRAX™
- Multi-function color monitor
- Power maximizing system
- PPC hydraulic control system
- Radiator and oil cooler dust proof net
- Radio remote controller
- Rearview mirror, LH
- Rotating lamps (red, amber)
- Shoes, triple grouser: 500 mm **20"**
- Starting motor, 5.5 kW 24 V x 1
- Travel alarm
- Torque-up pulley for crusher motor



## OPTIONAL EQUIPMENT

- **Magnetic Separator**  
Magnetic separator for primary conveyor, 900 mm **35"** wide.  
1390 kg **3,060 lb**
- **Muck Conveyor**  
Muck conveyor assembly can be folded by hydraulic cylinder, 3000 mm x 500 mm **9'10" x 20"**,  
510 kg **1,120 lb**



# KOMATSU®

KA765-09-01  
February 10, 2009

**FDEP SUBMITTAL**

Please review the attached Air General Permit Application. If the Air General Permit Application meets your approval, please sign and date the indicated page. Once the application has been signed and dated, please attach a \$100 processing fee to the application, payable to the Florida Department of Environmental Protection. Please submit the application and check to:

**Mr. Dickson Dibble  
Florida Department of Environmental Protection  
Receipts  
PO Box 3070  
Tallahassee, Florida 32315-3070**

GOODWIN BROS CONSTRUCTION INC  
P.O. Box 1689  
Brooksville, FL 34605  
352-798-0149



UNITED WE STAND

UNITED STATES POSTAGE  
129 23918 01.340 FEB 17 09  
0155 MAILED FROM ZIP CODE 34605



Mr. Dickson Dibble  
FL Dept. of Environment Protection  
Receipts  
PO BOX 3070  
Tallahassee FL 32315-3070