



OSBORN

an Astec Industries Co.



Modular Plants

Introduction to Osborn

Osborn's Modular Plant for crushing and screening enables complete plants to be loaded into standard open top containers to send easily around the world. Enough space is available within the container for start-up spare parts.

All that would be required for erection on site would be a mobile crane. Variations for Primary, Secondary and Tertiary Modular Plants are available along with variations on our Modular Screening Plant.

The Modular 'KIT' comes complete with all fasteners and relevant service manuals and all equipment is supported by Osborn's 24/7/365 service. Spares are readily available from Osborn's head office stores at Elandsfontein, Gauteng, South Africa.

The benefits of a Modular Plant are:

- Compact construction provides smaller site footprint.
- Access to the equipment for maintenance is easy.
- Modules are largely pre-assembled at our factory for ease of site establishment and craneage.
- The machines are all Osborn's field proven designs.
- Easy dismantling and re-assembling of the plants ensures quick site relocation.



Modular Jaw Crusher

(Range: 2540 - 3042 - 3055 - 3648 - 4248)

- The Primary Jaw Crusher module can be fed by a dump truck or by an excavator. Dependant upon the type of feed equipment, the design incorporates different size feed hoppers and size variation on the Vibrating Grizzly Feeders.
 - Roller bearing Jaw Crusher with motor on a pivotal base mounted on the crusher.
 - Various feed hoppers to receive 20 - 50 tonne live capacity via a dump truck or to receive 3 m³ from an excavator.
 - Vibrating Grizzly Feeder under the hopper with receiving deck and either a single or stepped grizzly deck. Drive units on the VGF are either a twin shaft design or twin out-of-balance motors.
 - Fines discharge chute for undersize to conveyor below crusher with access doors.
 - Osborn slide out modular sacrificial conveyor below the crusher to remove material allows easy maintenance.
 - Skid type structure with walkways, handrails and access stairs/ladders to service all critical areas. Observation platform included. Motor guards and pulleys included.
- NOTE:**
- Units fully containerised for shipping.
 - 4248 crusher will be shipped break bulk. Structure will be containerised.

Excavator Feed Version



Dump Truck Feed Version



Modular Cone Crusher

(Range: 36D - 38SBS - 44SBS - 52SBS - 57SBS)

The general specifications for this modular plant are:

- Osborn Cone Crusher (Selected by duty)
- Universal crusher base mounted on rubber isolation clamping pads to minimise cyclic exciting forces to the rest of the structure
- Skid type structure c/w walkways, handrails, access ladders, motor guards and pulleys.

Optional Equipment:

- Cylindrical surge hopper (collapsible)
- Pan Feeder – variable speed for better feed control into the crusher
- The feeder has a roll-back frame to allow ease of liner replacement in the crusher
- Sacrificial conveyor below crusher to remove material
- Crusher anti-spin device is advised if surge bin is not fitted

NOTE:

- Smaller units fully containerised for shipping.
- 52 & 57 crushers will be shipped break bulk: Structure will be containerised.



Modular Screen

Range: 6 x 16 - 6 x 20 - 7 x 20 - 8 x 20 (In single, double or triple deck layout)

Osborn's Mobile Screening Plant complements the Primary Jaw Crusher Modular and the Secondary/Tertiary Cone Crusher Modular Plants.

A roll-out front chute provides easy access for servicing and allows full entry to the front of the screen. Rear of screen has rubber rear skirts for easy maintenance. The screen would be fed by a conveyor into an optional feedbox that is built into the back of the screen.

For all Modular Screen Plants, Osborn's design is for breaking down into standard shipping containers and made up of:

- Screen
- Roll out oversize discharge chute
- Fines discharge chutes
- Stepped walkways around screen for full access to all areas
- Skid type structure with access stair to walkways

Optional Equipment:

- Standard Osborn Modular Conveyor that slides into channel sections and is used to remove undersize material from the bottom deck
- Standard Osborn Modular Conveyors for products

Note:

6 x 16 and 6 x 20 screens are partially stripped to fit into containers. 7 x 20 and 8 x 20 screens must be shipped breakbulk or broken down for site assembly. Special tools may be required for rebuilding the machines (Huck bolt machine). Structures shipped in containers.



Modular HSI Crusher

(Range: HSI -V 1010 - 4233 - 4240 - 4250 - 5260)

Due to the versatility of our HSI range we have modular designs for Primary, Secondary and Tertiary applications.

Osborn Pioneer HSI Primary Range (4233 - 4240 - 4250 - 5260)

- The Primary HSI Crusher module can be fed by a dump truck or by the excavator. Dependant on the type of feed equipment, the design incorporates different size of feed hoppers and size variation on the Vibrating Grizzly Feeders.
- Roller Bearing HSI with motor on pivotal base mounted on the crusher.
- Various feed hoppers to receive 20 - 50 tonne live capacity via a dump truck or to receive 3m³ from an excavator.
- Vibrating Grizzly Feeder under the hopper with receiving deck and either a single or stepped grizzly deck. Drive units on the VGF are either a twin shaft design or twin out-of-balance motors.
- Fines discharge chute for undersize to conveyer below crusher with access doors.
- Osborn slide out modular sacrificial conveyer below the crusher to remove material allows easy maintenance.
- Skid type structure with walkways, handrails and access ladders to service all critical areas. Observation platform included. Motor guards and pulleys included.

Osborn Pioneer HSI Secondary and Tertiary range (1010 - 4233 - 4240 - 4250 - 5260)

- We have a variety of feed options for the Osborn Pioneer HSI Range - Pan fed or Belt fed, this option is highly recommended in order to control the feed as well as spread the feed evenly over the width of the blow bars.
- Skid type structure complete with walkways, handrails, access ladders, motor guards and pulleys.

Optional Equipment

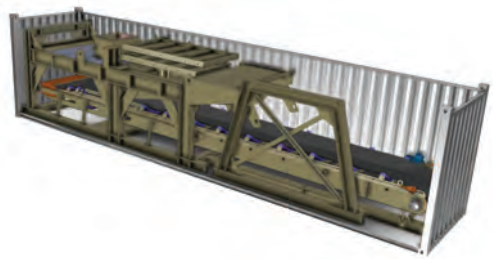
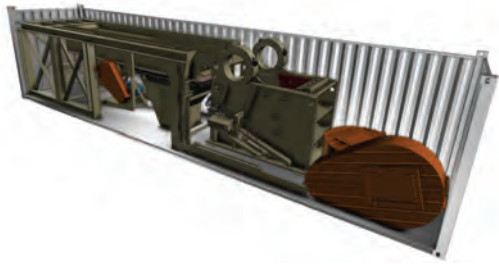
- Surge Hopper
- Pan or Belt Feeder - Variable speed for better control into the crusher.
- Sacrificial conveyer below crusher to remove material.



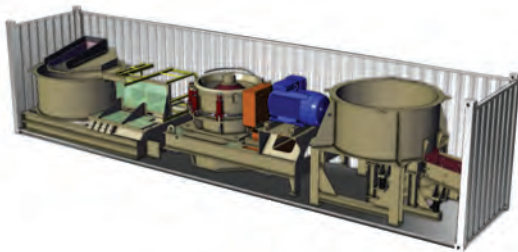
Shipping

To reduce the cost of shipping, all our modulares have been designed in such a way, that they can be shipped in containers, except for the oversize crushers. Screens can be shipped flat rack or in broken down condition to be assembled on site. Special tools may be required for rebuilding the screens (Huck bolt machine).

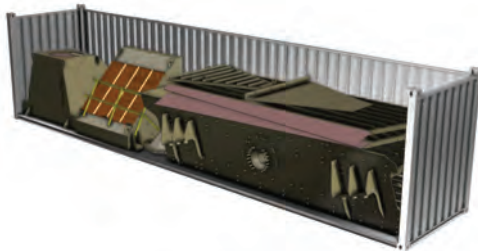
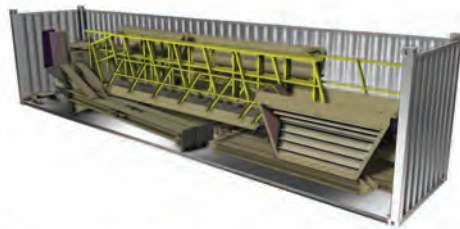
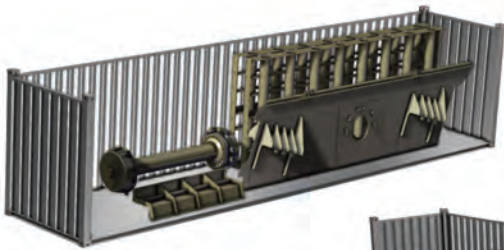
Modular Jaw Crusher



Modular Cone Crusher



Modular Screen





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