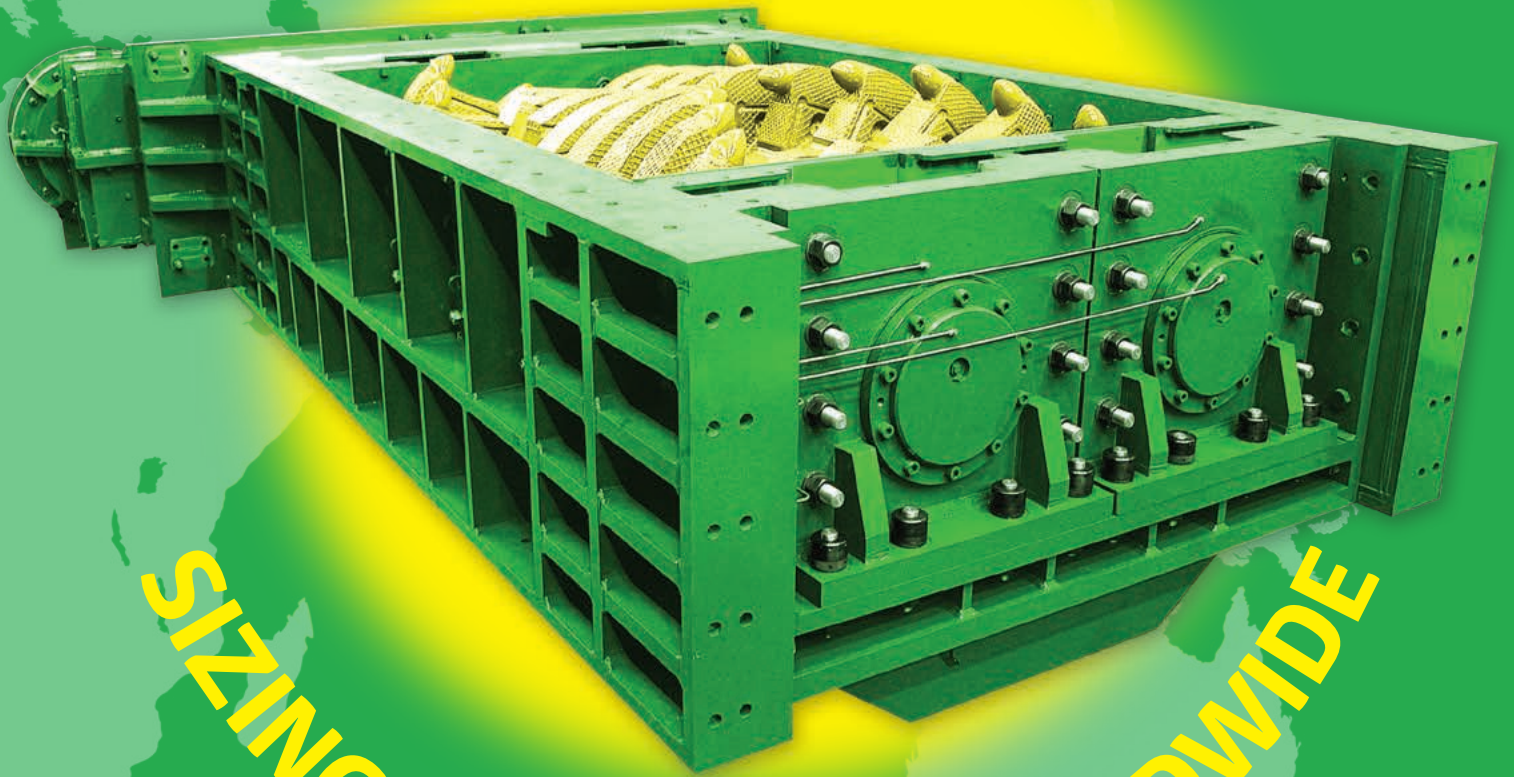


# MMD SIZERS™

GREEN MINING SOLUTIONS



SIZING MINERALS WORLDWIDE



THE MMD GROUP OF COMPANIES  
WWW.MMDSIZERS.COM

## THE MMD GROUP OF COMPANIES



### Europe

**MMD Mining Machinery Developments Ltd**  
**MMD Design & Consultancy Ltd**  
**MMD Mineral Sizing (Europe) Ltd**  
 Derbyshire, England  
 Tel: +44 (0)1773 835533  
 info@mmdsizers.com

**MMD GPHC Ltd**  
 Laxey, Isle of Man  
 Tel: +44 (0)1624 864050  
 info@mmdgphc.com

### Africa

**MMD Mineral Sizing (Africa) Pty Ltd**  
 Gauteng, South Africa  
 Tel: +27 11 608 4801  
 sizers@mmdafrica.co.za

### North America

**MMD Mineral Sizing (America) Inc.**  
 Tennessee, USA  
 Tel: +1 423 884 6100  
 sizers@mmdusa.com

**MMD Mineral Sizing (Canada) Inc.**  
 Alberta, Canada  
 Tel: +1 780 451 5100  
 information@mmdcanada.ca

### South America

**MMD Mineral Sizing (Central America) SA de CV**  
 Cancún, Mexico  
 Tel: +52 998 898 0160  
 sizers@mmdmexico.com

**MMD Mineral Sizing (South America) Ltda**  
 Rio de Janeiro, Brazil  
 Tel: +55 21 2553 1505  
 sizers@mmdlalatinamerica.com.br

**MMD Mineral Sizing (Chile) Ltda**  
 Santiago, Chile  
 Tel: +56 (2) 2449 0280  
 sizers@mmdchile.com

### Asia

**Beijing MMD Mining Machinery Co. Ltd**  
 Beijing, China  
 Tel: +86 10 6940 7788  
 mmd@mmdchina.com

**MMD Heavy Machinery (India) Pvt. Ltd**  
 Kolkata, India  
 Tel: +91 33 2290 3042  
 sizers@mmdindia.com

**MMD Asia Pacific Ltd (South East Asia)**  
 Bangkok, Thailand  
 Tel: +66 (0) 2652 7994  
 sales@mmdsoutheastasia.com

**PT. MMD Mining Machinery Indonesia**  
 Jakarta, Indonesia  
 Tel: +62 (0) 21 2904 9871  
 info@mmdindonesia.com

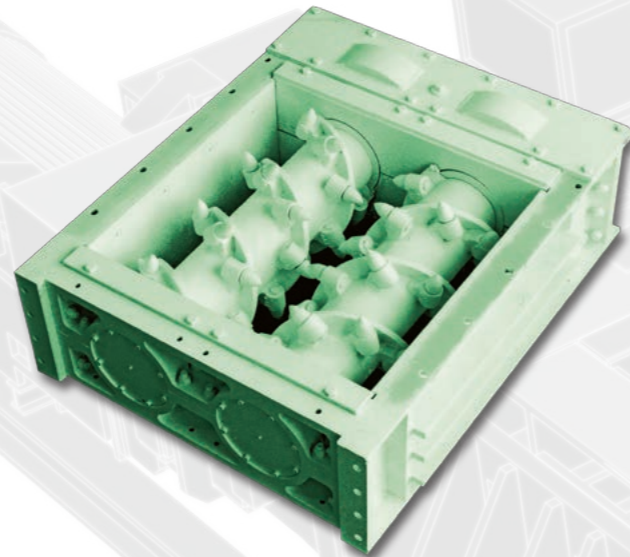
### Australasia/Oceania

**MMD Australia Pty Ltd**  
 Queensland, New South Wales & Perth, Australia  
 Tel: +61 7 3193 2800  
 sizers@mmdaus.com.au

[www.mmdsizers.com](http://www.mmdsizers.com)

Mining Machinery Developments (MMD) is a world leading specialist in the processing and reducing of natural and manufactured materials utilising Sizer Technology.

Founded in 1978 to design and manufacture mineral processing equipment for the UK underground coal mining industry, MMD developed the Twin Shaft MINERAL SIZER™, an innovative product providing a technological breakthrough in mineral reduction.



The MMD Twin Shaft Mineral Sizer has progressed from a 500 series machine through to the 1500 series machine, capable of handling material up to 3 cubic metres, with capacities in excess of 12,000 tonnes per hour. The MMD Sizer has the ability to process wet sticky material or hard dry rock or a combination of the two, and has proved to be the ideal sizing solution for over 80 different minerals worldwide, in industries such as cement, ceramics, construction, diamonds, energy, industrial minerals and precious metals.



MMD has also successfully designed and manufactured mobile, semi-mobile and static Sizer stations for the complete mineral sizing solution.

## The Principles of SIZER™ Technology

The basic concept of the MMD Sizer is the use of two rotors with large teeth, on small diameter shafts, driven at a low speed by a direct high torque drive system. This design produces three major principles which all interact when breaking materials using *Sizer Technology*. The unique principles are: The Three-Stage Breaking Action, The Rotating Screen Effect, and The Deep Scroll Tooth Pattern.

### The Three-Stage Breaking Action



Initially, the material is gripped by the leading faces of opposed rotor teeth. These subject the rock to multiple point loading, inducing stress into the material to exploit any natural weaknesses.

At the second stage, material is broken in tension by being subjected to a three point loading, applied between the front tooth faces on one rotor and rear tooth faces on the other rotor.

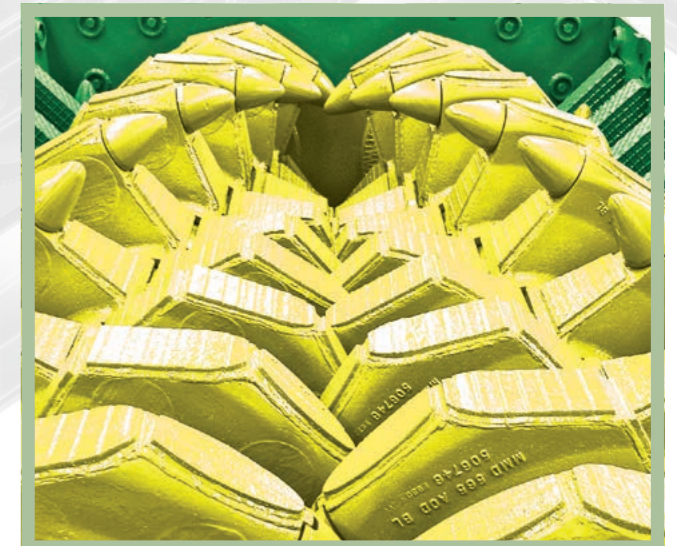
Any lumps of material that still remain oversize are broken as the rotors chop through the fixed teeth of the breaker bar, thereby achieving a three dimensional controlled product size.

### The Rotating Screen Effect



The interlaced toothed rotor design allows free flowing undersize material to pass through the continuously changing gaps generated by the relatively slow moving shafts.

### The Deep Scroll Tooth Pattern

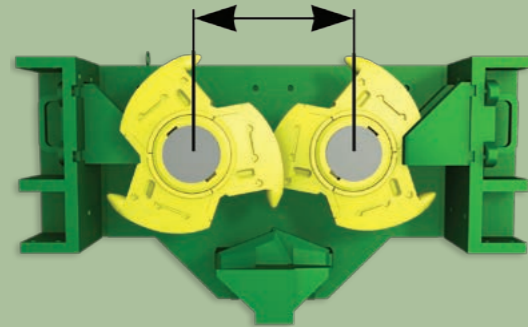


The deep scroll conveys the larger material to one end of the machine and helps to spread the feed across the full length of the rotors. This feature can also be used to reject oversize material from the machine.

## MMD Sizer Designation

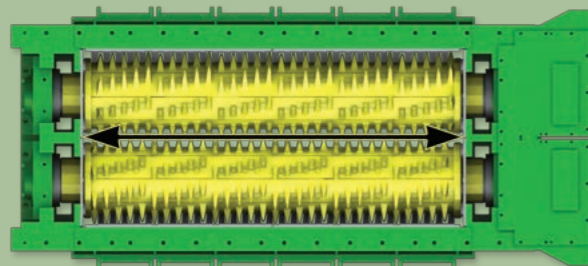
The different models of MMD Sizer are designated by the distance in millimetres between the centre line of the two rotors, the tooth configuration fitted to the rotors, the effective length of the inlet opening and the direction of shaft rotation.

### Centre Distance



The centre distance combined with the tooth configuration controls the maximum size of infeed material that the unit can process efficiently.

### Length of Inlet



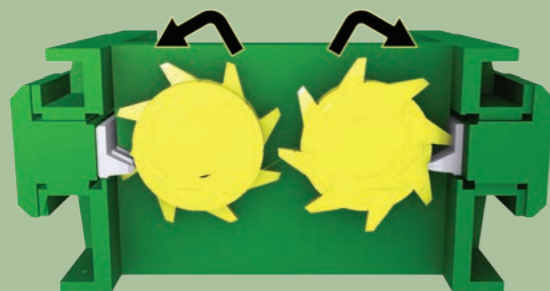
The length of the inlet has a major effect on the volume of material that the unit can process.

### Inward Running



Inward running is the normal method of operation for most tooth configurations and must be used on wet sticky materials.

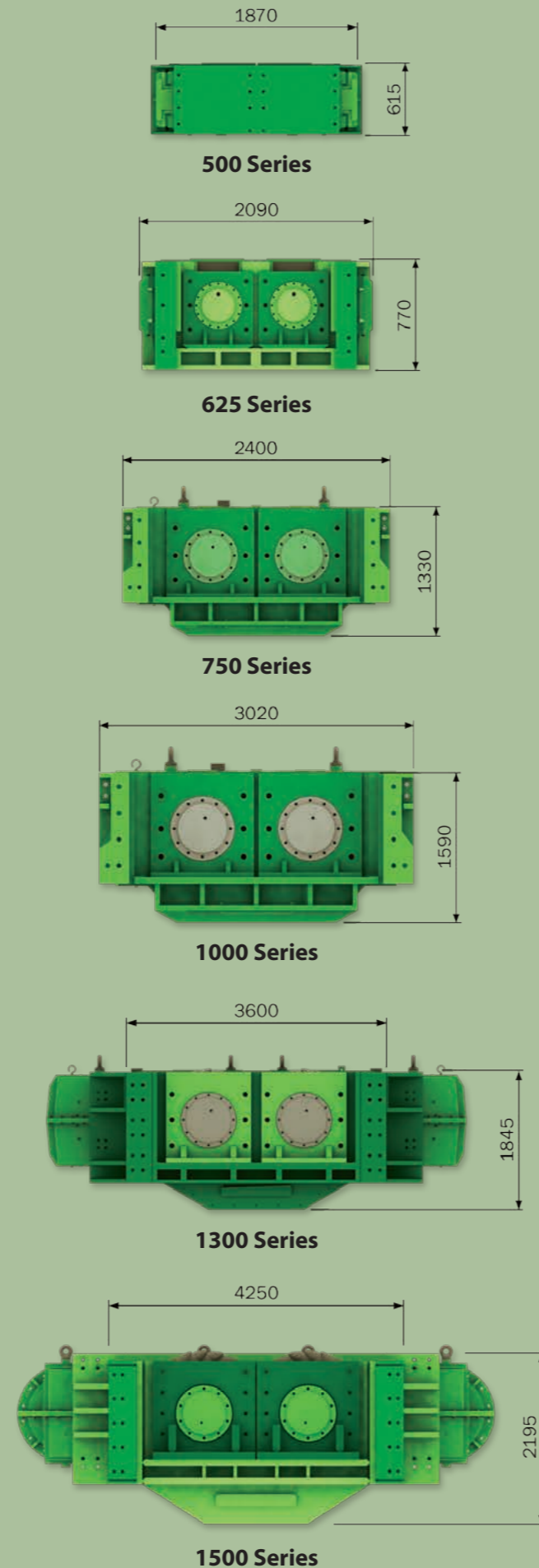
### Outward Running



On secondary and tertiary Sizers, outward running can be used on certain materials to produce a smaller product than is possible when running inwards.

## Sizer Series Comparison

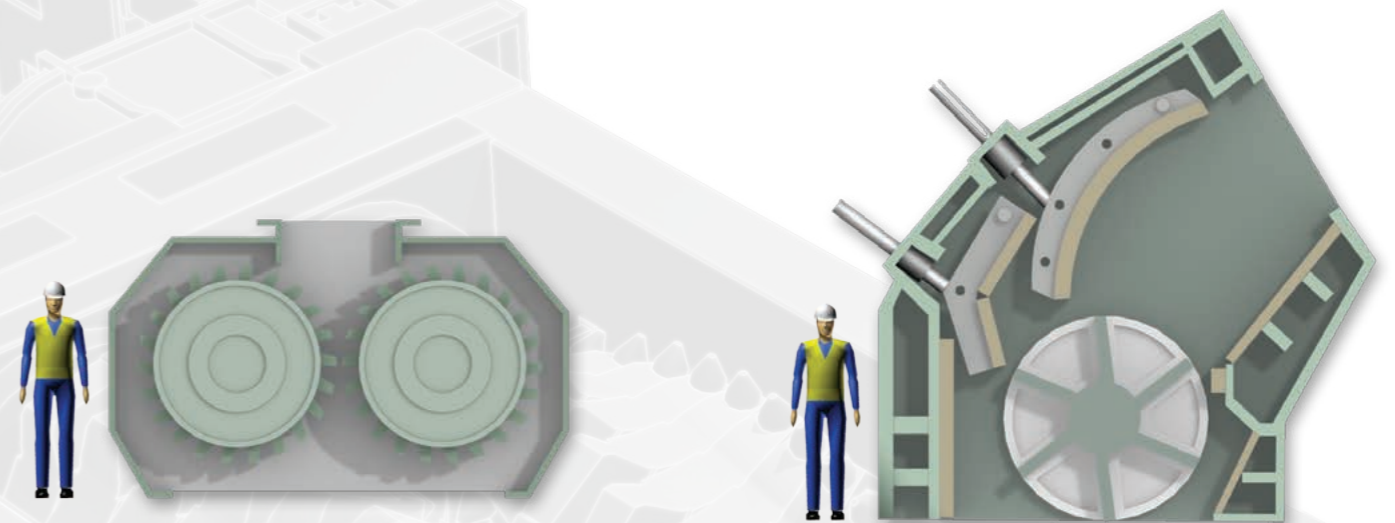
Typical dimensions for the range of MMD Sizers  
(All dimensions are in millimetres)



## A Comparison of 1,000 Tonnes Per Hour Crusher Dimensions

All machines shown are to the same scale

General Specifications:			
Material	: Medium/Hard Limestone	Infeed Size	: 750mm
Product Size	: 250mm	Capacity	: 1,000TPH



### Double-Roll Crusher

Type: 1,800 x 1,800mm  
Mass: 70 Tonnes

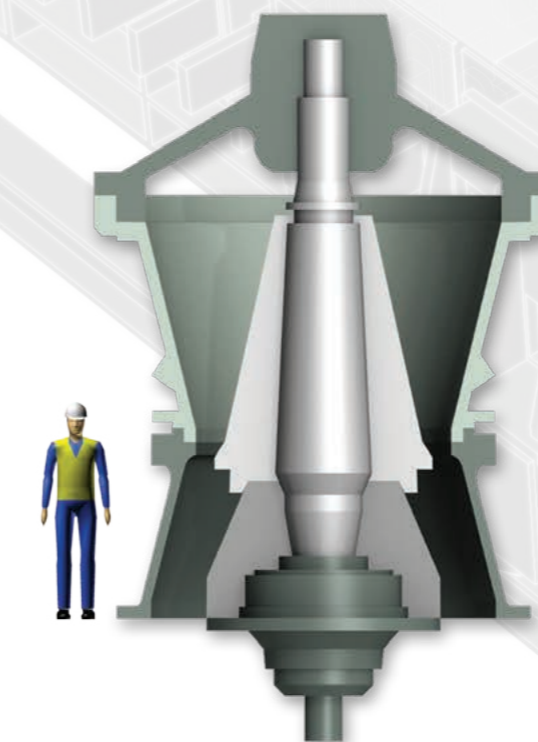
### Impactor

Type: 2,000 x 2,250mm  
Mass: 85 Tonnes



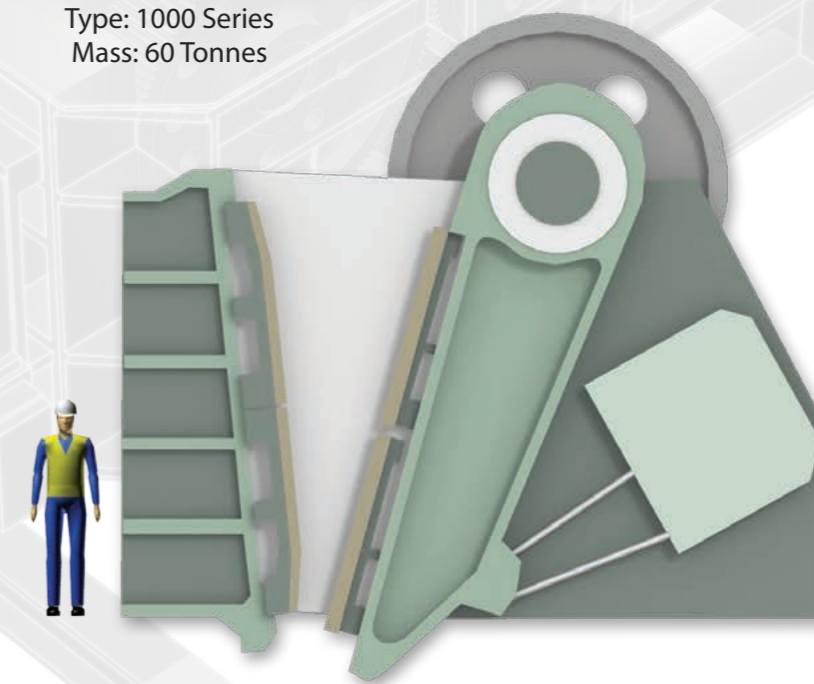
### MMD Mineral Sizer

Type: 1000 Series  
Mass: 60 Tonnes



### Gyrotory Crusher

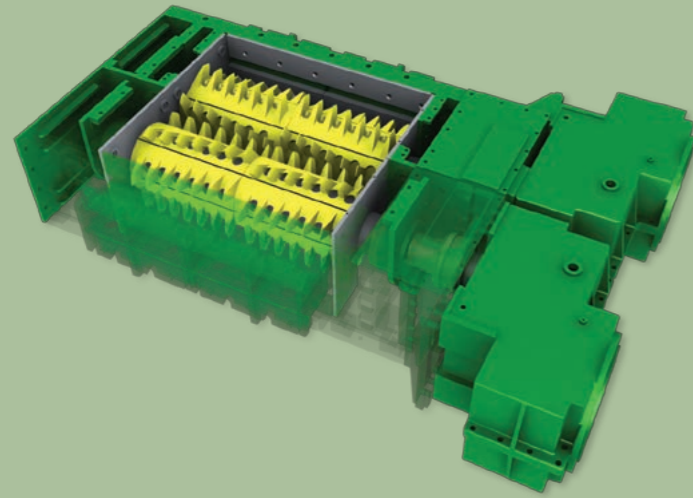
Type: 42"  
Mass: 120 Tonnes



### Jaw Crusher

Type: 88" x 66"  
Mass: 170 Tonnes

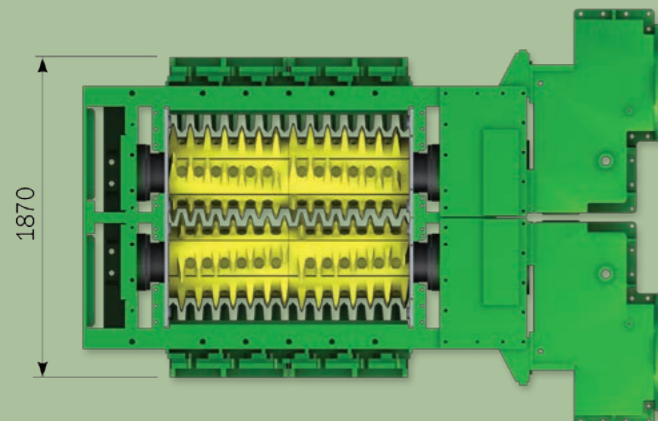
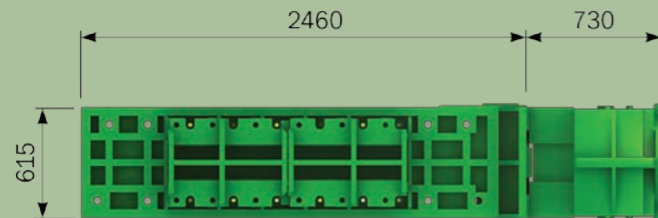
# The MMD 500 Series Twin Shaft Sizer



The 500 Series Sizer was the first designed in the MMD range and has been successful in numerous industries worldwide. It is one of the most versatile machines, and can be supplied as a primary, secondary or tertiary machine depending on the tooth configuration.

This machine can be constructed as a fixed centres, adjustable centres or as a single rotor unit with a range of tooth configurations to suit individual applications. Different lengths are available to enable processing of higher or lower tonnages, and can be single or double drive, depending on tonnage requirements and the material being handled.

A typical adjustable 500 Series Sizer with twin 75kW electric motors, has an approximate mass of 12 tonnes.



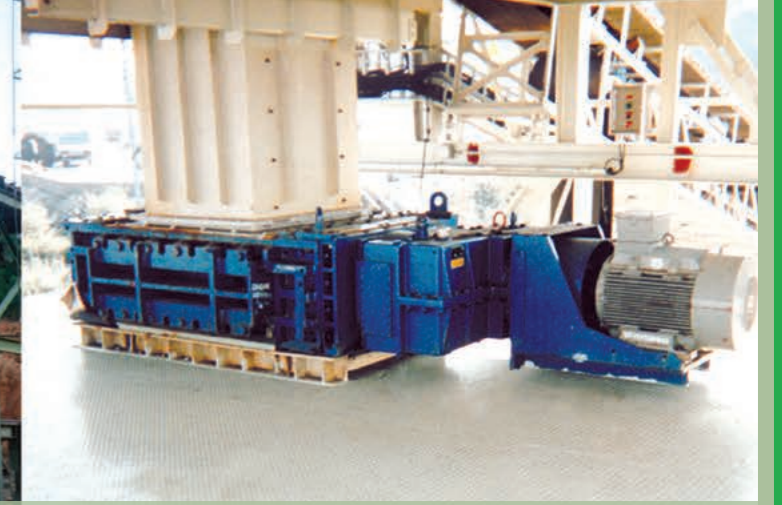
All dimensions are in millimetres, and may vary dependant upon configuration



Limestone | Denmark | In: 800mm | Out: -150mm | Capacity: 450TPH



Quartzite | Ghana | In: 500mm | Out: -100mm | Capacity: 300TPH



Lignite | Spain | In: 180mm | Out: -30mm | Capacity: 10TPH



Aggregates | France | In: 250mm | Out: -100mm | Capacity: 600TPH



Coal | China | In: 500mm | Out: -50mm | Capacity: 300TPH



Tunnel Clay/Limestone | Greece | In: 350mm | Out: -200mm | Capacity: 650TPH



Coal | Australia | In: 400mm | Out: -150mm | Capacity: 1,300TPH



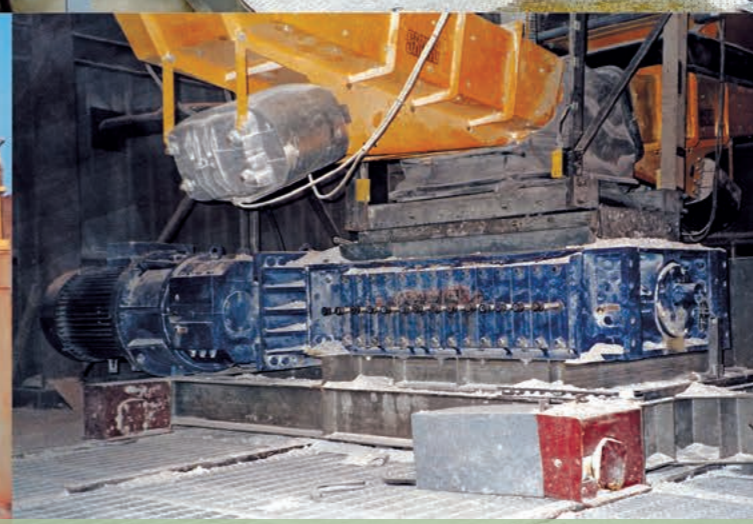
Limestone | China | In: 300mm | Out: -80mm | Capacity: 250TPH



Gypsum | UK | In: 150mm | Out: -40mm | Capacity: 300TPH



Gold Ore | Brazil | In: 200mm | Out: -40mm | Capacity: 600TPH

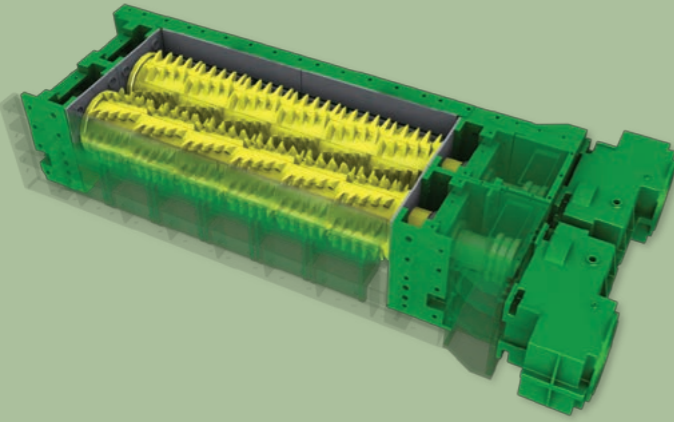


Burnt Lime | UK | In: 125mm | Out: -40mm | Capacity: 100TPH



Clay | UK | In: 250mm | Out: -100mm | Capacity: 600TPH

# The MMD 625 Series Twin Shaft Sizer

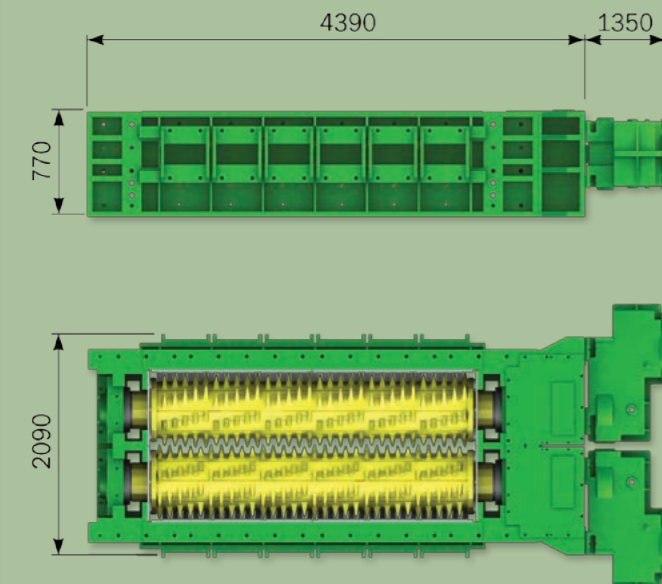


The 625 Series Sizer is one of the most popular machines as it can be configured for primary or secondary use in the same system on medium tonnages, allowing common drives for both primary and secondary units.

The length of the inlet can be adjusted at the design stage to suit the tonnage required and can be constructed as a fixed or adjustable centres unit. A wide range of existing tooth configurations are available for this machine to cover most applications.

This machine can be single or double drive, using one or two 260 kW electric motors, depending on tonnage and material being processed.

A typical 5 tooth secondary 625 Series Sizer, with a 2 metre long inlet, and double 260kW drives, has an approximate mass of 26 tonnes.



All dimensions are in millimetres, and may vary dependant upon configuration



Coal | Colombia | In: 300mm | Out: -50mm | Capacity: 1,600TPH



Chalk | Belgium | In: 800mm | Out: -250mm | Capacity: 500TPH



Silver Ore | Bolivia | In: 750mm | Out: -150mm | Capacity: 600TPH



Shale/Limestone/Clay | Ireland | In: 1,000mm | Out: -100mm | Capacity: 500TPH



Clay/Limestone | India | In: 350mm | Out: -90mm | Capacity: 750TPH



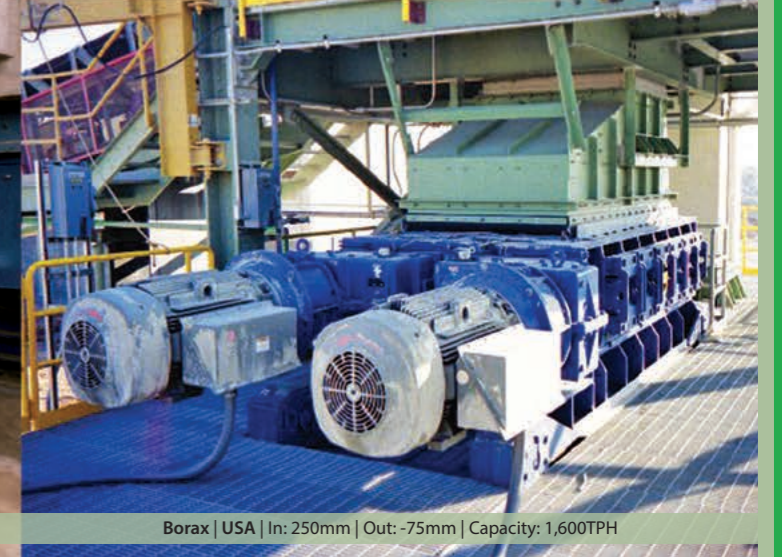
Gold Ore | Guinea | In: 350mm | Out: -80mm | Capacity: 1,500TPH



Shale | Ireland | In: 800mm | Out: -80mm | Capacity: 600TPH



Coal/Stone | China | In: 300mm | Out: -100mm | Capacity: 2,500TPH



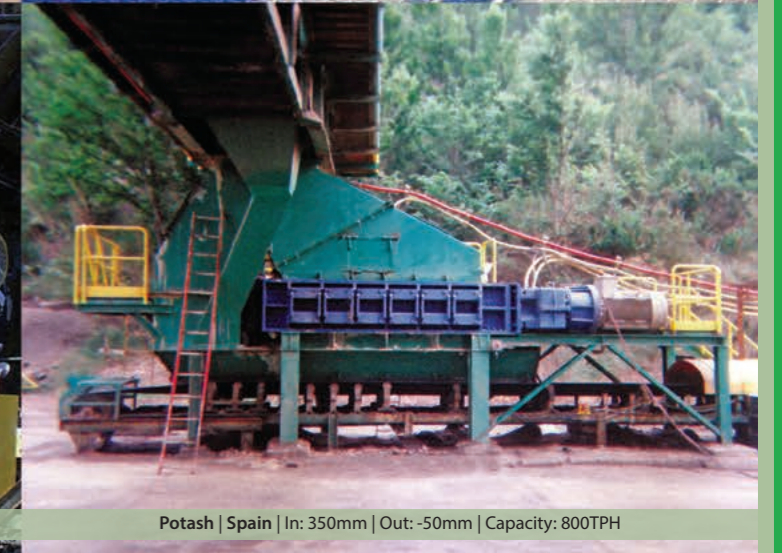
Borax | USA | In: 250mm | Out: -75mm | Capacity: 1,600TPH



Lignite | Czech Republic | In: 300mm | Out: -40mm | Capacity: 2,500TPH

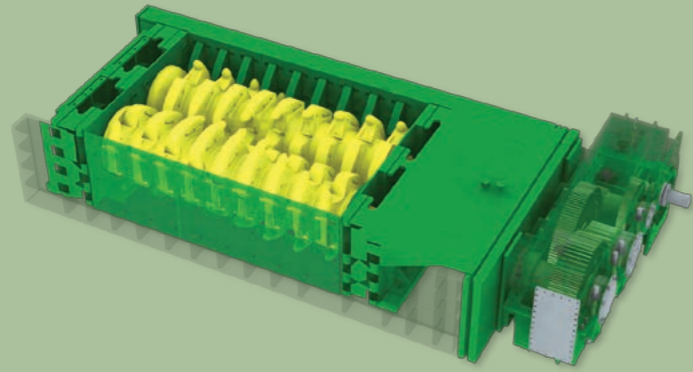


Gypsum/Anhydrite | Canada | In: 700mm | Out: -200mm | Capacity: 1,200TPH



Potash | Spain | In: 350mm | Out: -50mm | Capacity: 800TPH

# The MMD 750 Series Twin Shaft Sizer

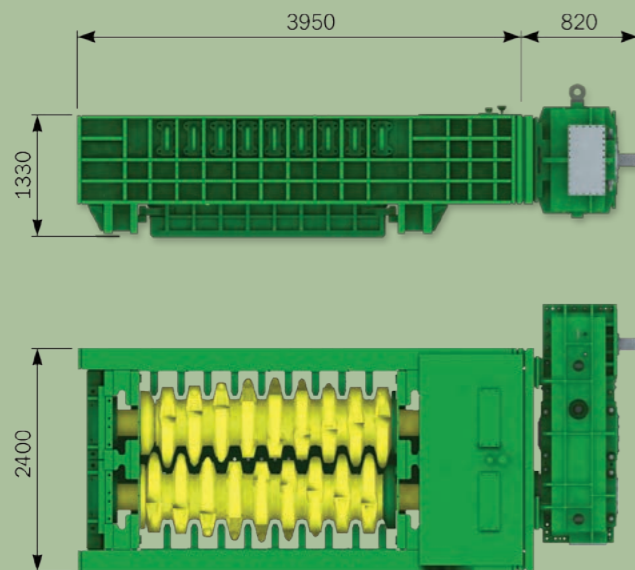


The 750 Series Sizer was developed shortly after the 500 to provide a range of higher tonnage machines capable of breaking larger and harder materials. These machines can be used as a primary or secondary machine depending on the tooth configuration.

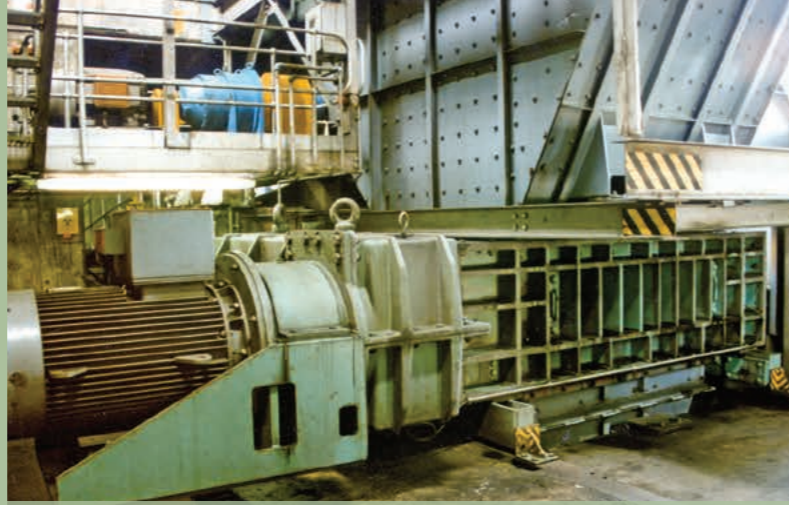
A wide range of tried and tested tooth configurations are available to cover most applications, but MMD are always prepared to develop new ones if necessary for a new application.

When used as a Primary in a process system, it is often paired with a 625 Series secondary to provide a higher reduction ratio than is possible with a single machine. In common with all other MMD Sizers, the inlet size can be tailored to suit the tonnage required.

A typical 3 tooth primary machine with single 400 kW electric drive, has an approximate mass of 40 tonnes.



All dimensions are in millimetres, and may vary dependant upon configuration



Coal | South Africa | In: 1,000mm | Out: -180mm | Capacity: 900TPH



Limestone | Lebanon | In: 800mm | Out: -300mm | Capacity: 1,500TPH



Limestone | Nigeria | In: 1,000mm | Out: -200mm | Capacity: 400TPH



Clay/Gold Ore | Papua New Guinea | In: 600mm | Out: -250mm | Capacity: 600TPH



Nickel Ore | Australia | In: 800mm | Out: -200mm | Capacity: 800TPH



Coal | South Africa | In: 1,000mm | Out: -250mm | Capacity: 2,000TPH



Chalk | UK | In: 500mm | Out: -300mm | Capacity: 600TPH



Gypsum | USA | In: ROM | Out: -250mm | Capacity: 1,000TPH



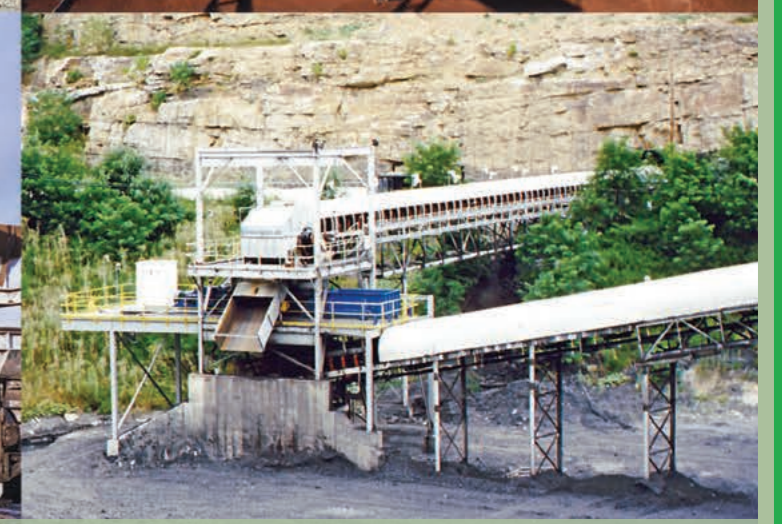
Iron Ore | Australia | In: 1,200mm | Out: -250mm | Capacity: 1,200TPH



Limestone/Clay | UK | In: 350mm | Out: -100mm | Capacity: 1,000TPH

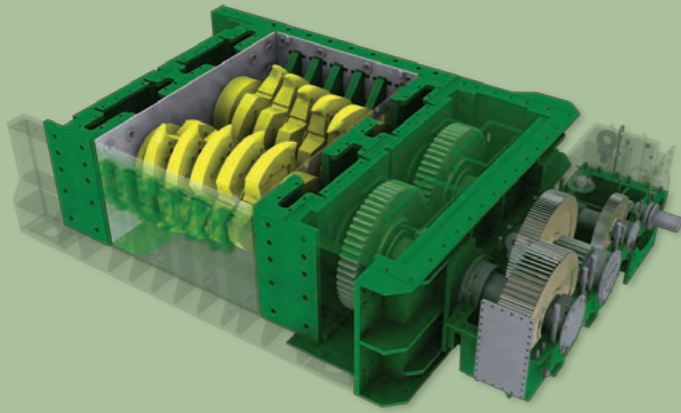


Lignite | Spain | In: 800mm | Out: -180mm | Capacity: 2,500TPH



Coal | USA | In: ROM | Out: -200mm | Capacity: 5,000TPH

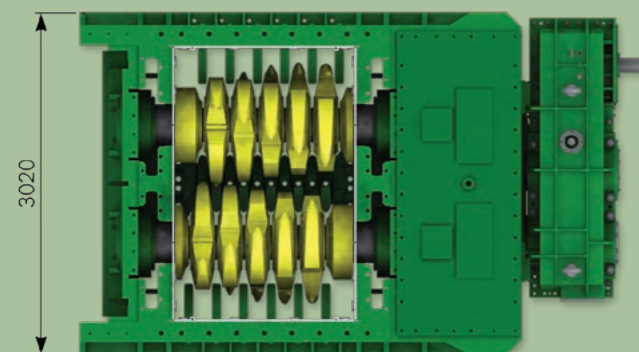
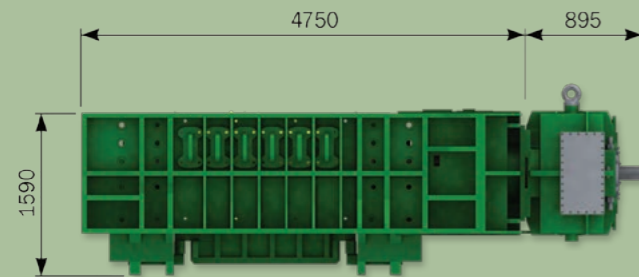
# The MMD 1000 Series Twin Shaft Sizer



The 1000 Series Sizer was designed to provide a range of primary machines between the 750 and the high tonnage 1300 series. The extra centre distance allows it to cope with a larger infeed size, increasing the capacity considerably for the same inlet length, which can be varied.

This machine is often paired with a 750 series secondary when a multi machine system is necessary to achieve the final product requirements. These units can be fitted with single or double drives of varying powers, using the extensive range of purpose designed MMD gearboxes.

A typical 3 tooth by 5 ring long machine with a single 400kW drive has an approximate mass of 60 tonnes.



All dimensions are in millimetres, and may vary dependant upon configuration



Overburden | Thailand | In: 1,200mm | Out: -400mm | Capacity: 6,500TPH

Mineral Sands | South Africa | In: 1,500mm | Out: -300mm | Capacity: 1,500TPH

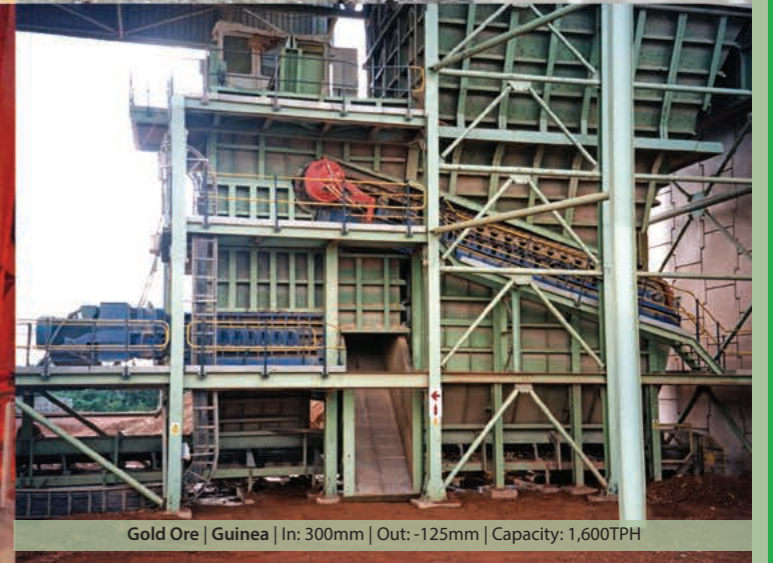
Overburden | Canada | In: 1,500mm | Out: -250mm | Capacity: 2,000TPH



Limestone | Mexico | In: ROM | Out: -300mm | Capacity: 2,500TPH



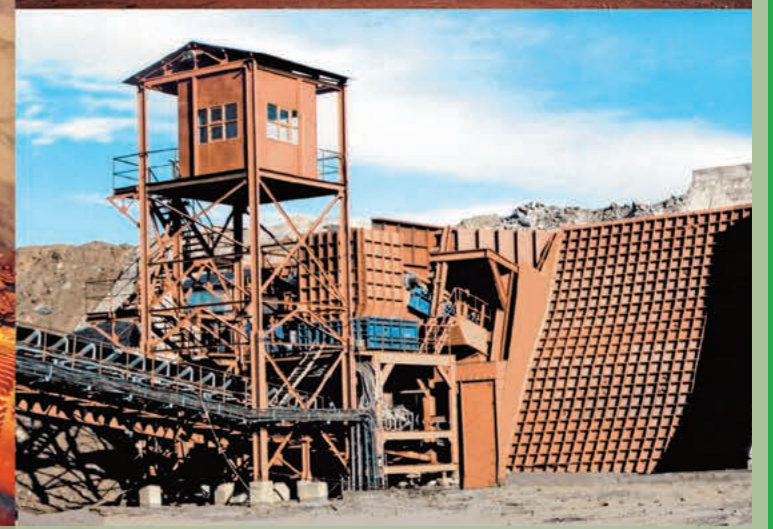
Carbon Anodes | Norway | In: 1,600mm | Out: -350mm | Capacity: 70TPH



Gold Ore | Guinea | In: 300mm | Out: -125mm | Capacity: 1,600TPH



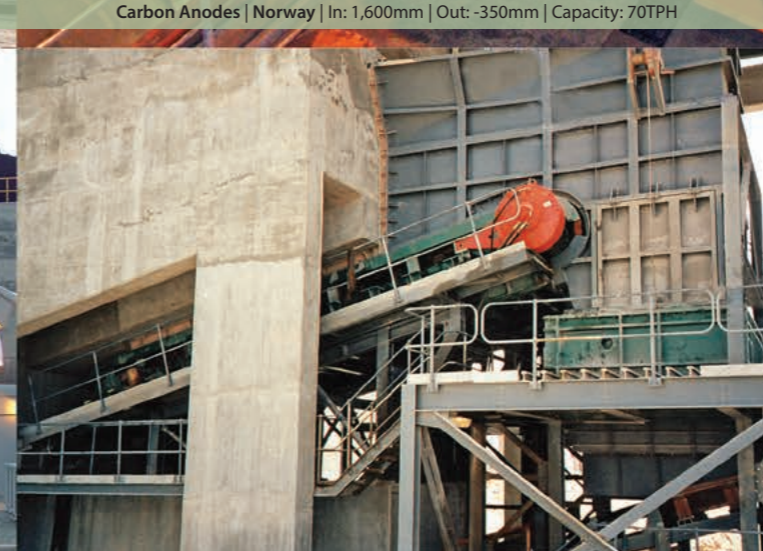
Coal | Colombia | In: 300mm | Out: -50mm | Capacity: 1,600TPH



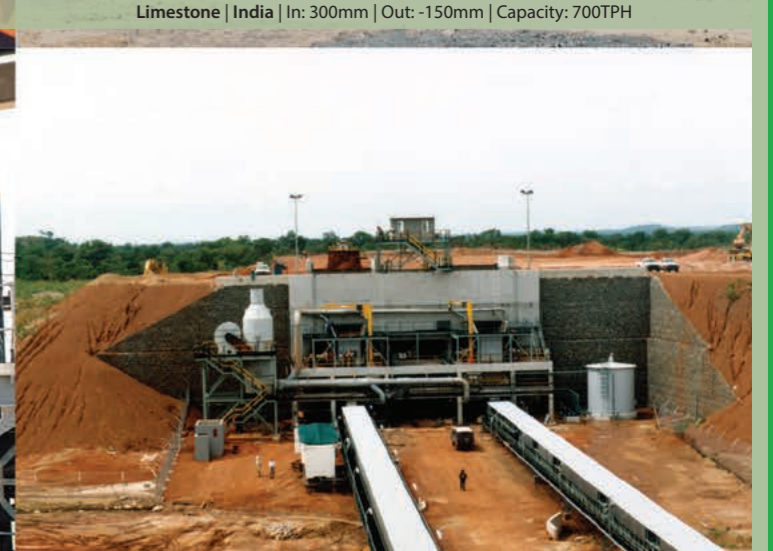
Limestone | India | In: 300mm | Out: -150mm | Capacity: 700TPH



Bauxite | Jamaica | In: ROM | Out: -150mm | Capacity: 1,600TPH

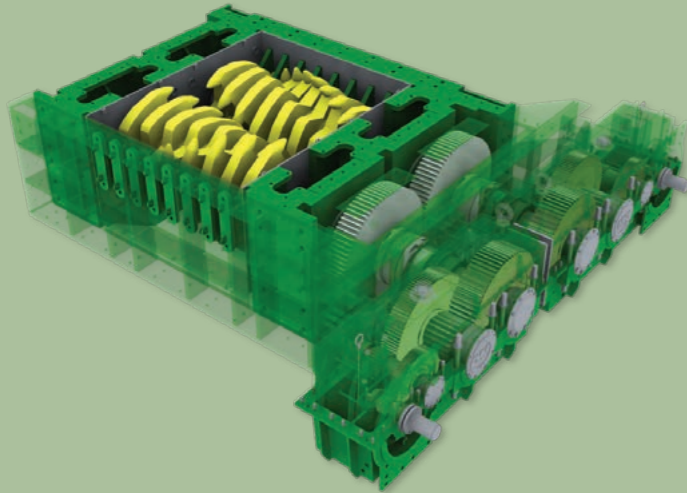


Limestone | Libya | In: 1,000mm | Out: -300mm | Capacity: 1,200TPH



Lateritic Gold Ore/Clay | Mali | In: 1,000mm | Out: -250mm | Capacity: 750TPH

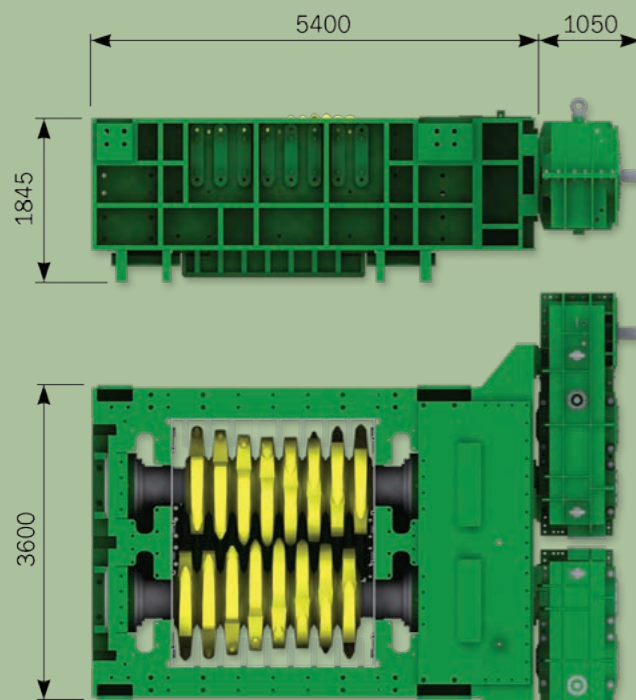
# The MMD 1300 Series Twin Shaft Sizer



The 1300 Series Sizer was developed initially for high tonnage overburden operations as a key component in the change to short haul truck and shovel operations feeding conveyor systems. As overburden by its very nature constantly changes, these machines, in common with the complete range of MMD Sizers, can work on a vast range of materials from wet sticky clay to hard abrasive granites, making them ideal for this type of application.

These machines have since been utilised in many other types of application all over the world. The 1300 Sizer is normally fitted with double drives of varying powers, depending on the application.

A typical 3 tooth machine with twin 400kW drives, has an approximate mass of 95 tonnes.



All dimensions are in millimetres, and may vary dependant upon configuration



Overburden | Russia | In: 1,200mm | Out: -350mm | Capacity: 3,500TPH



Lignite | China | In: 1,800mm | Out: -300mm | Capacity: 2,500TPH



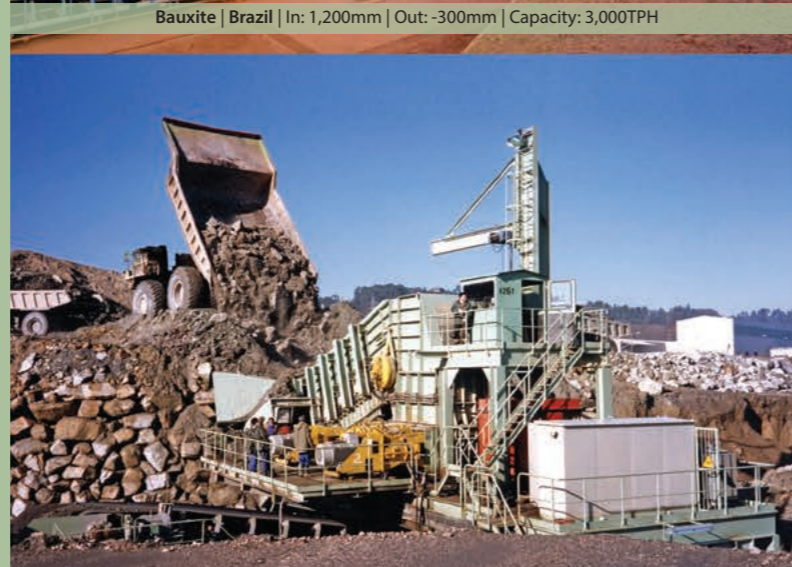
Bauxite | Brazil | In: 1,200mm | Out: -300mm | Capacity: 3,000TPH



Limestone | Mexico | In: 1,250mm | Out: -300mm | Capacity: 2,000TPH



Overburden | UK | In: 1,500mm | Out: -350mm | Capacity: 1,000TPH



Overburden | Spain | In: 2,500mm | Out: -250mm | Capacity: 3,500TPH



Overburden | Thailand | In: 1,500mm | Out: -300mm | Capacity: 4,500TPH



Kimberlite | Canada | In: 2,500mm | Out: -350mm | Capacity: 1,500TPH



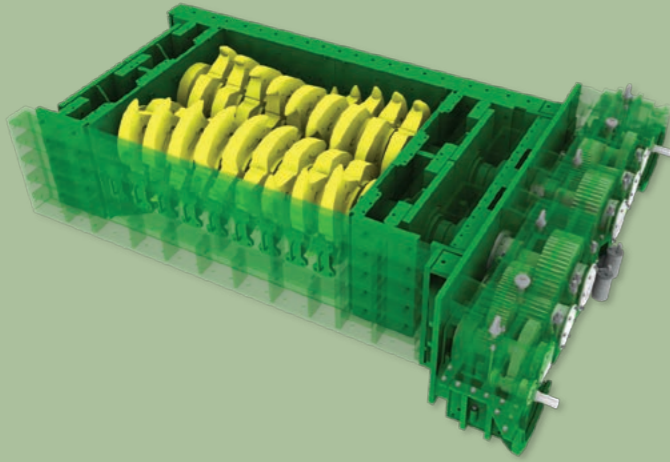
Zinc Ore | Australia | In: 1,500mm | Out: -300mm | Capacity: 2,500TPH



Limestone | Taiwan | In: 1,000mm | Out: -350mm | Capacity: 1,200TPH



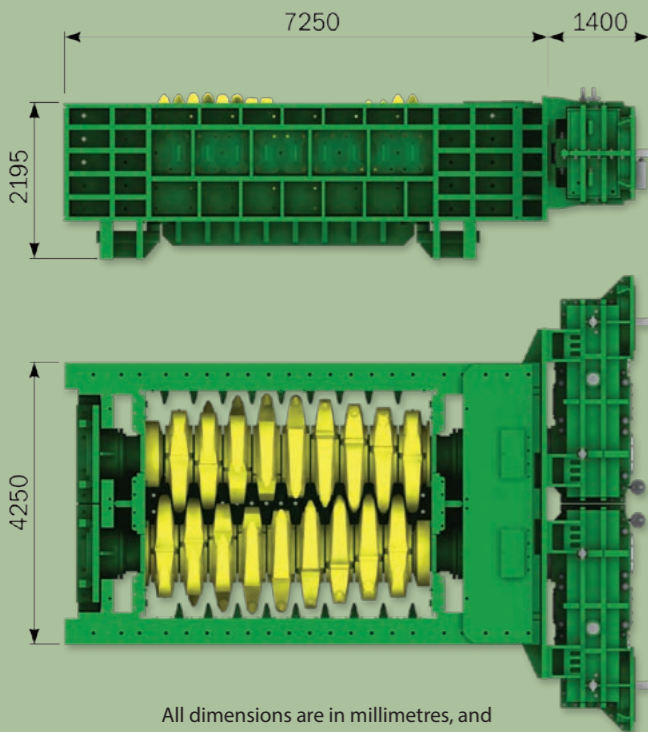
# The MMD 1500 Series Twin Shaft Sizer



The 1500 series Sizer was first supplied to operate within the oil sands industry in Northern Canada to facilitate the switch to short haul truck and shovel extraction, which proved to be a significant economic improvement over the traditional systems previously employed.

The 1500 series Sizer is presently the highest capacity unit available, but design studies are underway for higher tonnage capable Sizers in the future. The high reliability, low wear and low maintenance costs are always key features in any mining operation, but are crucial in this abrasive, hostile environment, where the operation runs 24 hours per day. Varying the inlet length allows changes in capacity to suit the application.

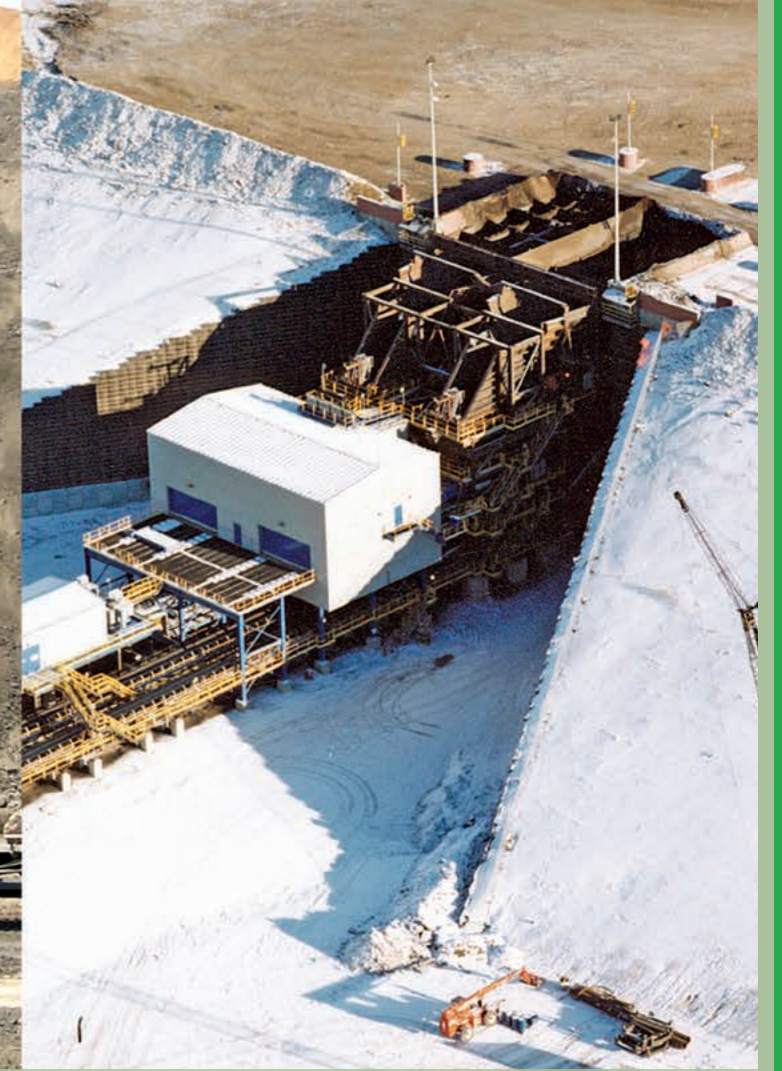
A typical 3 tooth machine, with twin 400 kW drives has an approximate mass of 160 tonnes.



All dimensions are in millimetres, and may vary dependant upon configuration



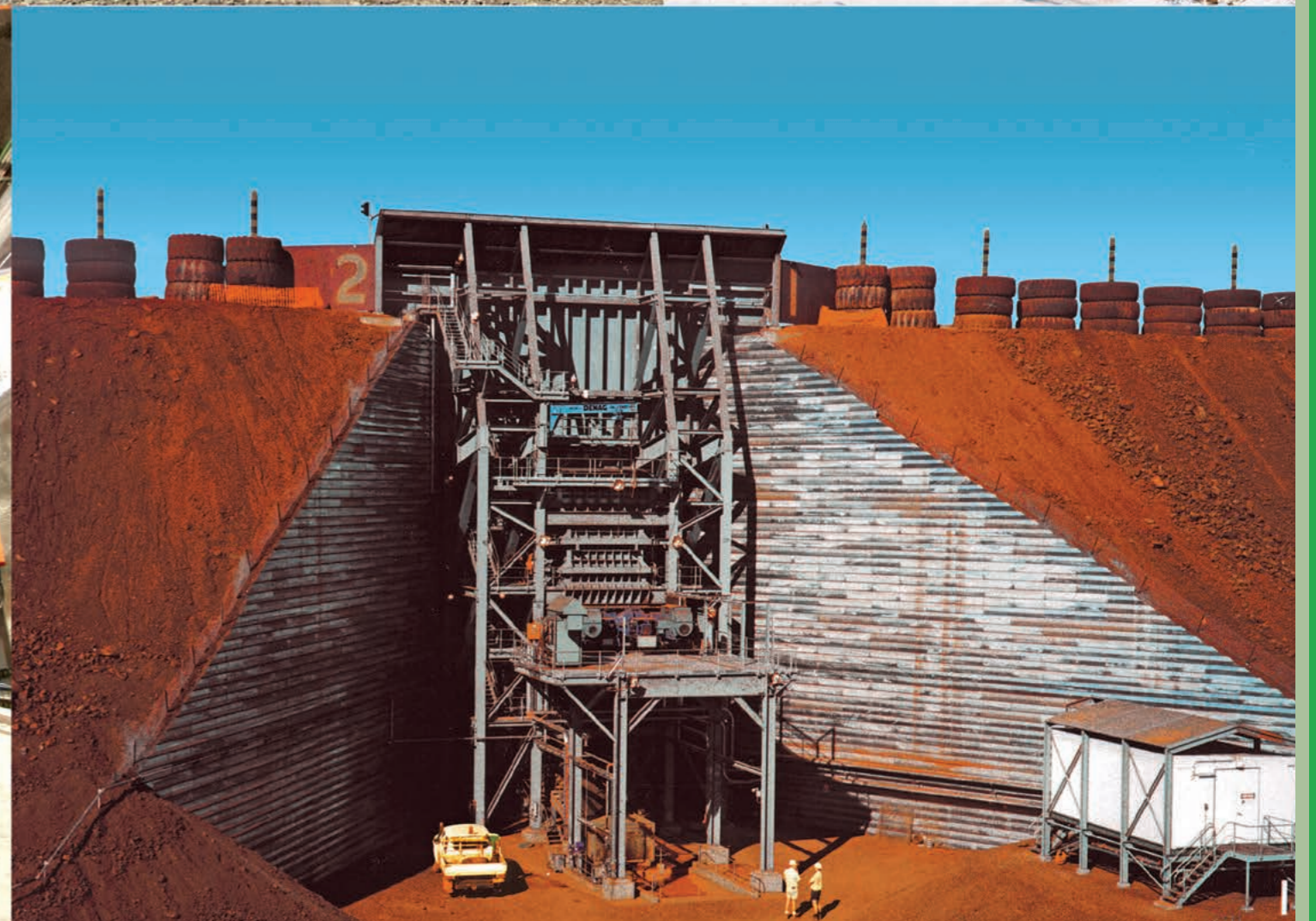
Overburden | Colombia | In: ROM | Out: -450mm | Capacity: 20,000TPH



Oil Sands | Canada | In: 3,000mm | Out: -400mm | Capacity: 8,000TPH

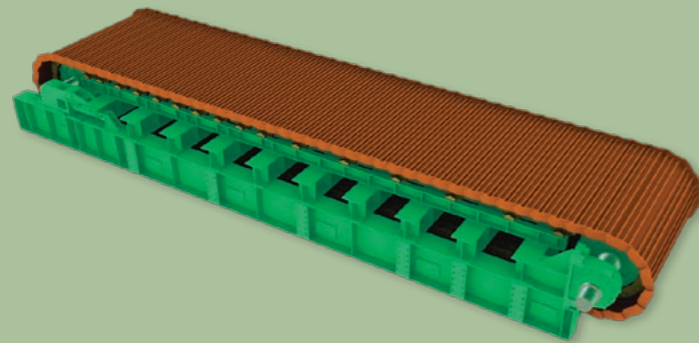


Kimberlite | South Africa | In: 2,000mm | Out: -300mm | Capacity: 800TPH



Iron Ore | Australia | In: 2,500mm | Out: -250mm | Capacity: 6,000TPH

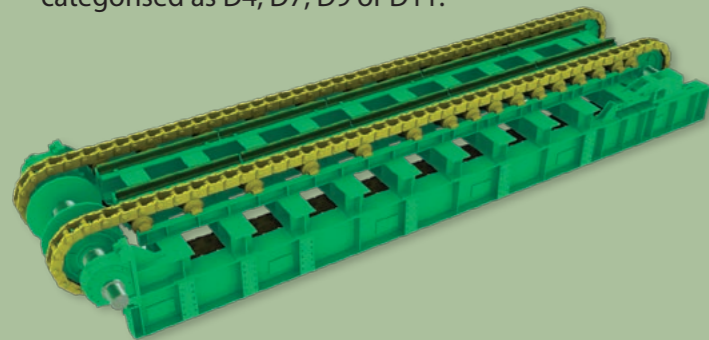
# The MMD Heavy Duty Apron Plate Feeder



To complement the capacity and strength of the Twin Shaft Mineral Sizer, MMD has designed Heavy Duty Apron Plate Feeders to convey raw material to the crushing plant.

Designed to handle impact loads and abrasive materials, they are often arranged beneath tipping points, where their combination of reliability and robustness has proved to give many years of trouble-free operation with minimal maintenance.

The main features of an MMD Apron Plate Feeder are the heavy duty chains and rollers, which are attached to the main frame. The chains and rollers vary in size depending on the application and stresses they will be put under. Chains and rollers are manufactured by Caterpillar and designated as D4, D7, D9 and D11 chain and rollers. Consequently a Feeder is initially categorised as D4, D7, D9 or D11.

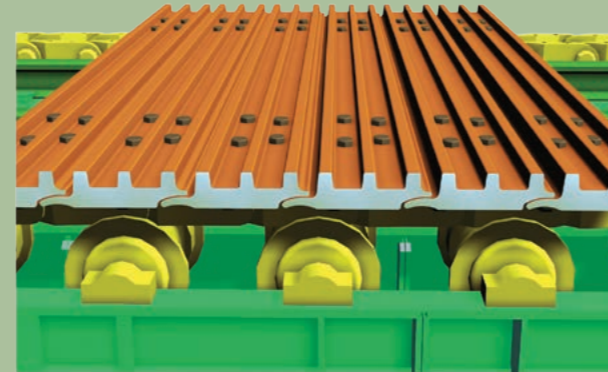


The Feeder length is measured from the centre-line of the tail sprocket to the centre-line of the head sprocket, and varies depending upon the project requirements.

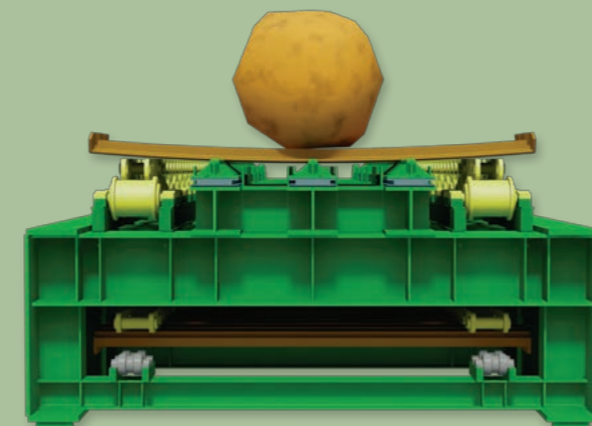
The drive located at the head sprocket is generally a variable speed unit as it is often the main method of controlling the throughput of the plant. There are two types of variable speed drive available: hydraulic and electro-mechanical.

MMD Apron Plate Feeders are also available with an in-built fines retrieval system. The employment of cleaning scrapers welded to selected conveyor plates brings the fine material to the top of the feeder to be deposited with the rest of the material, eliminating the need for a separate fines conveyor.

The apron plates, which are fixed to the chain, are made from specially rolled sections and are manufactured in various widths to cater for the maximum volume of material that may need to be processed. These plates have overlapping edges preventing spillage between the plates, and are fixed to the chains with bolts that are positioned between the grousers, protecting the bolt heads from damage caused by the material being conveyed.

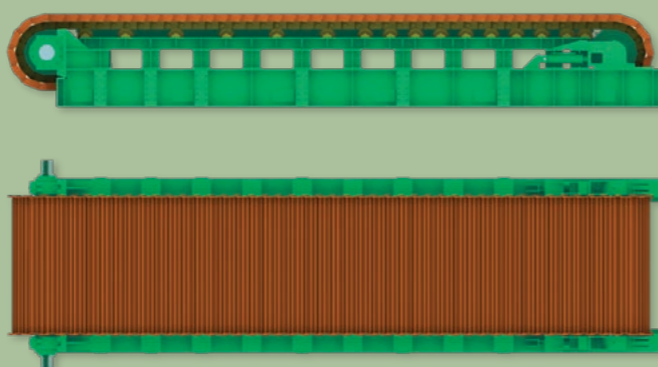


The elimination of impact energy is of special importance. The impact force is initially absorbed by the conveyor plates, which deform within their elastic limit. The impact rails then transmit the forces which are dissipated into the main frame construction.

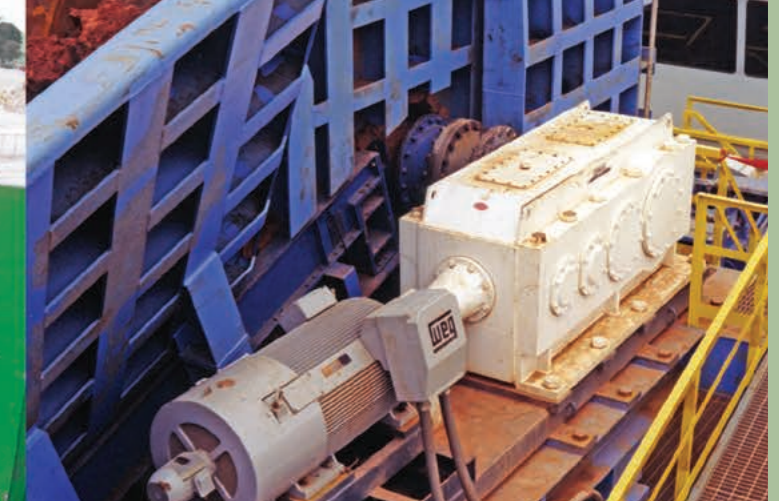


Typical Apron Plate Feeder key dimensions:

Type	Effective Width	Overall Width	Overall Height
D4	1,500mm	2,160mm	1,200mm
D7	2,000mm	2,775mm	1,480mm
D9	3,000mm	3,990mm	1,960mm
D11	4,000mm	5,025mm	2,260mm



D7 Apron Plate Feeder with electro-mechanical drive



D7 Apron Plate Feeder with hydraulic drive



D7 Apron Plate Feeder with Fines Retrieval System



D4 Apron Plate Feeder installed in a confined space



D9 Apron Plate Feeder forming part of the Fully Mobile Slewing Sizer Station



D9 Apron Plate Feeder with electro-mechanical drive

# MMD Mobile & Semi-Mobile Sizer Stations



Trailer Mounted Transportable | 750 Series Sizer

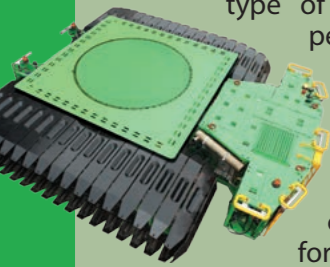
Operators are demanding more and more flexible extraction systems, meaning process equipment has to be more adaptable to suit the range of modern mining methods available. MMD has, throughout its existence, developed purpose-designed units to suit any mining method and material as required. The whole range of Sizers can be incorporated into a wide range of transport options available to suit the duties required.

### Wheeled units

These are really only suitable for the smaller Sizers due to the limited carrying capacity on this type of design and the many highway restrictions now imposed worldwide. This style of unit is normally powered by a diesel engine and a hydraulic system to power the discharge conveyor and feeder, if fitted.

### Track Modular units

Any of the Sizer range can be fitted to this type of unit which can have tracks permanently installed or incorporated in a separate MMD Atlas Transporter (shown left). These can be diesel or electric powered and when the tracks are fitted they can be lifted clear of the ground for maintenance.



Fully Mobile Track Mounted | 750 Series Sizer

### Transportable Modular units

Any Sizer can be installed on this type of unit: the main difference is that the modules are designed to be moved on wheeled trailers. These units are normally electrically powered in the same manner as static installations and designed to suit the operator's preferred method of transport.

### Track Mounted

This is probably the most versatile method of mounting the whole range of Sizers and is adaptable to the widest range of extraction methods. These units can be electric, diesel or a combination of the two. If the Sizer, Feeder and discharge conveyor are electrically driven, and the tracks are driven by a diesel engine, the main supply cable can be disconnected during relocation.



Fully Mobile Track-Mounted | 1300 Series Sizer | D7 Apron Plate Feeder



MS1 Fully Mobile Slewing Station | 1400 Series Sizer | D9 Apron Plate Feeder



Semi-Mobile Sizer Station with single truck bridge | Relocated by MMD Atlas 500T Transporter (Inset) | 1300 Series Primary Sizer | 625 Secondary Sizer | D9 Apron Plate Feeder



Semi-Mobile Sizer Station with twin truck bridges | 1150 Series Sizer | D7 Apron Plate Feeder

# The MMD Fully Mobile Sizer Station



MMD are the innovators of a new product, which allows the flexibility of a mining shovel to be matched with the cost effectiveness of long distance conveyor haulage. The 9,000 Tonnes Per Hour Fully Mobile Sizer Station is a new, cost effective engineering solution, which enables excavating, sizing and conveyor haulage processes to take place in unison, along the mine face, advancing as it progresses.

In a typical application, the Sizer Station would be positioned between the mine face and overland conveyor, and the hopper directly fed from the face with run-of-mine material by an excavator or mining shovel. Material is then drawn up the variable speed MMD Apron Plate Feeder and discharged into the MMD Sizer, reducing the material to a definable product size suitable for efficient long distance conveyor haulage. Material is subsequently discharged from the Sizer Station via the discharge conveyor and into a hopper car that travels along the overland conveyor. The Sizer Station and the shovel move repeatedly back and forth along the mine face until the entire mine has been excavated.

The modular assemblies include:

- MMD 1500 Series Twin Shaft Mineral Sizer
- MMD D9 Apron Plate Feeder
- Transfer conveyor and discharge conveyor
- Main Chassis and Superstructure
- Receiving Hopper
- Crawler Tracks

An obvious advantage of this system is the elimination of haul trucks in a truck and shovel operation, where trucks are used to carry the material to the processing plant or out of a mine dump area. This process is no longer necessary as material can be loaded directly into the mobile Sizer Station and processed at the mine face, simplifying the system and optimising production.

The Fully Mobile Sizer Station has many attributes and features to enable consistent efficient operation of the complete system.

## Fully Mobile

The Sizer Station is able to propel itself variably at a rate of 0 to 12m/min.

## High Throughput

Throughputs of up to 9,000TPH average and 12,000TPH peak can be achieved.

## Accurately Sized Material

The Sizer Station accepts feed material of up to 2.5m<sup>3</sup> and produces a minus 450mm product, reducing subsequent conveyor belt wear and damage at transfer points.

## Compact Dimensions and Lightweight

The Sizer Station has been designed to be a compact, lightweight unit (44m x 15m x 14.5m @ 1170 Tonnes) with a relatively low centre of gravity and able to withstand various weather conditions.

## Modular Construction

The entire Sizer Station is constructed of modular components to enable easy maintenance, assembly and transport.

## Low Maintenance

Typically, less than 2.5% of the total working hours is spent on maintenance.

## Efficient Operation

Utilising an 20 metre radius shovel and 80 metre link conveyor, the system is able to remove a strip approximately 120 metres deep before needing to relocate the face conveyor.

## Accepts Run-of-Mine Material

The Sizer Station's hopper accepts material directly dug and dumped from the mine face, requiring no screens or preparation equipment.

## Flexible Loading Area

The hopper is approachable by excavation equipment from at least 220 degrees.

## Large Capacity Hopper

The hopper can hold up to 175m<sup>3</sup> / 350 tonnes of material.

## Regulated Production Rate

The variable speed MMD Apron Plate Feeder enables the station to control the processed production tonnage.

## Accurate Material Discharge

The discharge conveyor is able to luff from 0 to +15 degrees and also slew 75 degrees either side of centre to provide accurate material discharge.

## No Onboard Operator

The Sizer Station can be configured to require no onboard operator when in normal operation.

## Traverses Steep Gradients

Negotiates up to 10% inline / cross gradients on most terrain.

## Simple Operation

All processes can be controlled and viewed from the control cabin, conveniently located at the top of the station.

## Easy Access

Access to the station is by conveniently situated landing points. All parts of the station can be viewed safely, even when in operation.



**MMD leads the way with tried and tested, efficient, high capacity, fully mobile successful IPSC solutions.**

# MMD SIZERS™

ENVIRONMENTALLY SUSTAINABLE MINING

SIZING MINERALS AROUND THE WORLD

v8.1



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