

# RECYCLING SYSTEM

***Specially designed compact recycling system for the efficient cleaning and reprocessing of used garnet.***

The Garnet Recycling Systems, provides the ability for Garnet, a high efficiency natural abrasive, to be used over and over again for maximum cost saving. Abrasive consumptions as low as 1.6kg Garnet per m<sup>2</sup> (0.33 lb/ft<sup>2</sup>) have been reported by very satisfied customer after recycling. Recycling provides for greatly reduced abrasive volume to be transported to and handled on site as well as greatly reduced abrasive disposal volume and disposal cost of a non-hazardous abrasive. Garnet Recycling Systems can be adjusted to achieve the optimum particle size balance for any particular blasting requirement. The systems are in operation in some of the world's toughest environments in Australia, New Zealand, the Middle East, South East Asia, Europe, North Asia and the USA. Operation and Maintenance is very simple even under difficult site conditions. The recycling is done as a dry process. Wet or damp material must be dried prior to reprocessing.

Compact designed custom built recycling system to suit your needs. Contact us for further details.

## **Standard Specification:**

- 230/460 volt
- Require 20 CFM @100 psi
- Output /hr - 3000 / 5000 kg
- Includes bucket elevator, rotary screen, air wash separator, and vibratory screen Magnatic Separator.
- External Ducting
- Fully adjustable suction capacity and fines extraction.

Mounted on the elevator is an abrasive air - wash unit. This unit is of welded and bolted construction manufactured from 4mm thick mild steel plate and suitable steel section.

The abrasive is transported from the elevator across the top of the air - wash unit by a screw conveyor thus ensuring the even distribution of the abrasive across the stratification plates.

This ensure a uniform " curtain" of abrasive falling over the extraction area or wear. A 1.5KW motor drives this screw conveyor.

Air currents generated by the ventilation / dust collector unit are induced to create a simple " air-wash" by which fines and lighter particles are removed from the working mix whilst it passes over the weir. Fines are extracted and passed to ground level by means of a flexible discharge pipe for subsequent disposal.

Airborne particles and dust are conveyed via duct -work to the dust arrestor. Selected and cleaned abrasive is passed into the storage hopper which is manufactured as an integral part of the air wash.



## **WARNING**

- Read and follow ALL instructions before using this equipment.
- Failure to comply with ALL instructions can result in serious injury or death.
- In the event that the user, or any assistants of the user of this equipment cannot read or cannot completely understand the warnings and information contained in these instructions, the employer of the user and his assistants must thoroughly educate and train them on the proper operation and safety procedures of this equipment.