



## Sizing-Dispensing System for Bulk Abrasives

GG-0651



### USA

FLEXICON CORPORATION  
Tel: +1 610 814 2400  
E-mail: sales@flexicon.com  
Web: www.flexicon.com

### UK

FLEXICON (EUROPE) LTD  
Tel: +44 1227 374710  
E-mail: sales@flexicon.co.uk  
Web: www.flexicon.co.uk

### AUSTRALIA

FLEXICON CORPORATION  
(AUSTRALIA) PTY LTD  
Tel: +61 7 3879 4180  
E-mail: sales@flexicon.com.au  
Web: www.flexicon.com.au

### SOUTH AFRICA

FLEXICON AFRICA (PTY) LTD  
Tel: +27 41 453 1871  
E-mail: sales@flexicon.co.za  
Web: www.flexicon.co.za

### SPAIN

FLEXICON EUROPE SPAIN  
Tel: +34 930 020 509  
E-mail: ventas@flexicon.es  
Web: www.flexicon.es

### FRANCE

FLEXICON EUROPE SAS  
Tel: +33 7 61 36 56 12  
E-mail: ventes@flexicon.fr  
Web: www.flexicon.fr

### GERMANY

FLEXICON EUROPE GmbH  
Tel: +49 173 900 78 76  
E-mail: vertrieb@flexiconeurope.de  
Web: www.flexicondeutschland.de

### SINGAPORE

FLEXICON SINGAPORE PTE LTD  
Tel: +65 6778 9225  
E-mail: sales@flexicon.com.sg  
Web: www.flexicon.com.sg

### INDONESIA

FLEXICON SINGAPORE PTE LTD  
Tel: +62 81 1103 2400  
E-mail: sales@flexicon.co.id  
Web: www.flexicon.co.id

## Sizing-Dispensing System for Bulk Abrasives

This Flexicon Sizing-Dispensing System for abrasive materials receives, scalps, stores and dispenses sand, rutile, zircon, and other dense, abrasive materials on-demand, free of dust.

Fed by a pneumatic conveying line, the system is equipped with an integral cyclone that separates incoming solids from the air stream. A rotary airlock isolates the pneumatic system from atmospheric pressure and meters material into a vibratory sifter that discharges on-size particles into a surge hopper.

With extended vertical sides, the surge hopper stores up to 19 cubic feet (540 liters) of material, enabling the system's flexible screw conveyor to dispense material when needed, while reducing the number of on-off cycles required for the independent pneumatic delivery system to replenish the hopper with material.

The enclosed 10 foot (3 m) conveyor, with curved, rigid carbon steel tubing and heavy-duty round wire screw, can handle a broad range of free-flowing and non-free-flowing bulk materials, from large particles to fine powders, including products that pack and seize, with no separation of blends.

As the metering screw rotates, it self-centers within the conveyor tube, providing constant clearance between itself and the tube wall, minimizing degradation of the material and wear of the screw and tube. Since the screw is the only moving part contacting material, maintenance is greatly simplified.

The screw is driven by a 1-1/2 HP (1.12 kW), NEMA 4-rated motor beyond the discharge point, eliminating material contact with seals or bearings and associated wear and failure. Both the screw and tube interior are smooth and crevice-free, allowing rapid, thorough cleaning. An optional rotating material chute allows manual indexing to downstream locations.

The system is also offered with integral crushing or grinding equipment for the reduction of over-sized masses received from upstream sources.

The hopper's asymmetrical pyramid design with steep side and back walls promotes flow to the charging adapter, while a vent port on the hopper lid provides a connection point for static or vacuum dust containment options.



*Flexicon's new Sizing-Dispensing System receives, scalps, stores and dispenses abrasive materials on-demand, dust-free.*

# flexicon®

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FLEXICON CORPORATION  
Tel: +1 610 814 2400  
E-mail: [sales@flexicon.com](mailto:sales@flexicon.com)  
Web: [www.flexicon.com](http://www.flexicon.com)