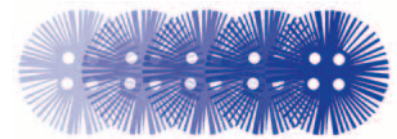


Schaefer Brush



S-VECO Linear Cleaner

Section 9

Custom brushes can be made to your specifications. Call for details!

The Concept

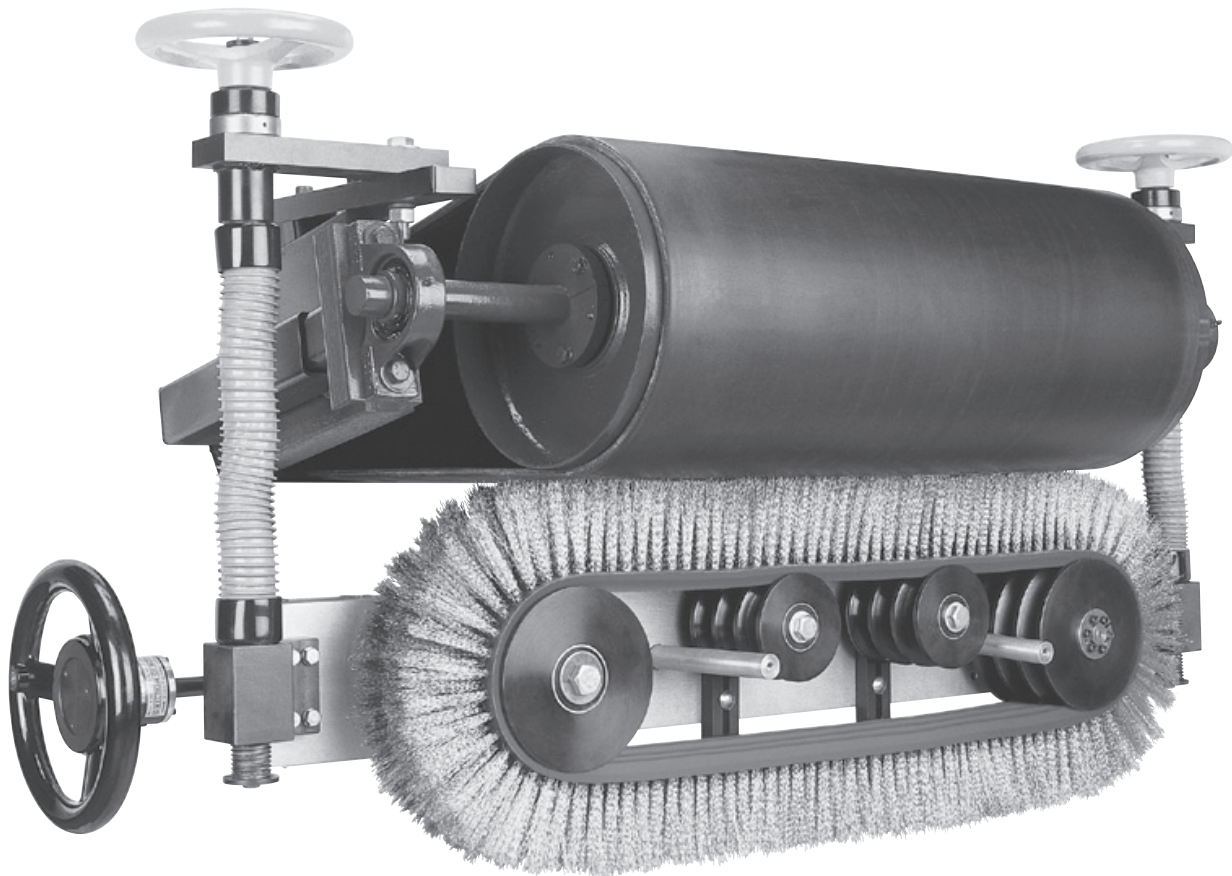
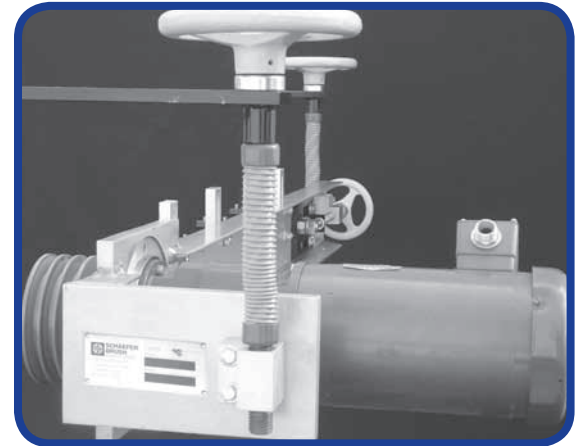
Linear cleaning...it's unique, effective and efficient! This S-VECO system is the only linear system designed to be "self cleaning". The brush belt operates in a perpendicular or transverse direction to the item being brushed, utilizing a powered Uni-V Belt, tufted with brush fibers that will best suit the application. The brush belt travels at a 90 degree angle across a series of sheaves. As it passes over the sheave, the opening of the brush fiber allows debris to be removed by force and easily collected. Each unit includes designed framework and is built for your specific application.

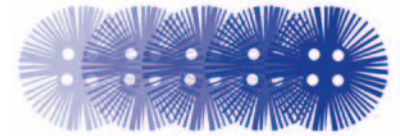
Suggested Applications:

- Conveyor Belt Cleaning
- Mold Car Sweep
- Panel Cleaning
- Apply or Remove Coatings
- Transporting items/material handling applications.

Versatile! Can be used in many different applications and industries.

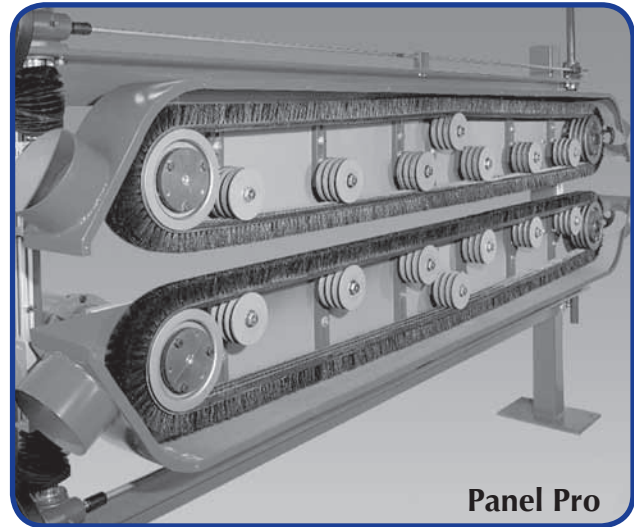
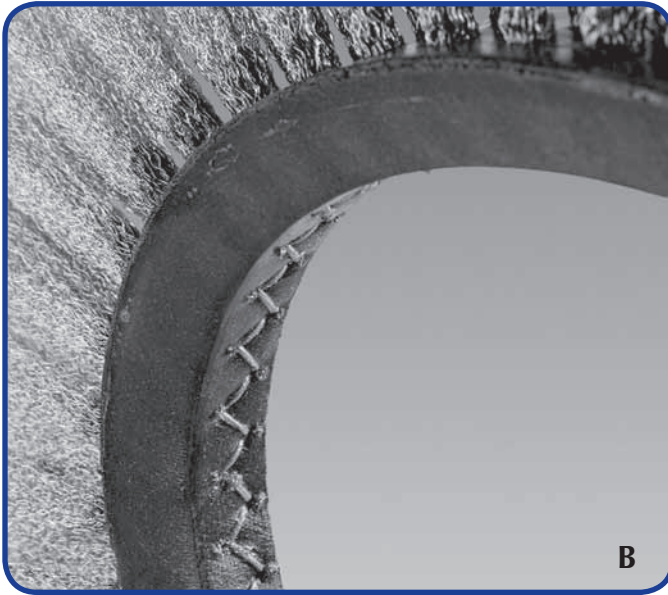
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Why is This Transverse Linear Brushing Action So Much More Effective Than Any Other Method?

In a top or bottom surface brushing application, scrapers, strip and revolving brushes tend to build up with debris. With the S-VECO Linear Cleaning System, the brush moves the debris to the side where it can easily be collected and removed.



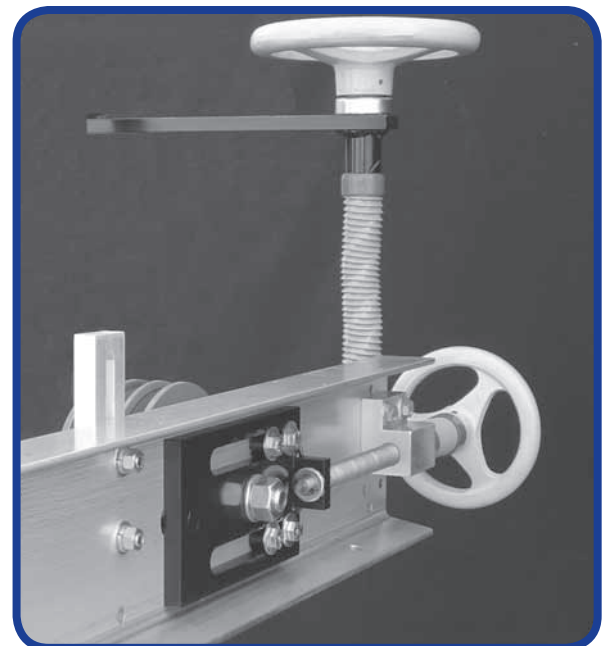
Simple Installation & Adjustment

Installation flexibility is an important design advantage of the S-VECO. Units can be bolted or welded in place for top or bottom brushing through the use of standard mounting brackets that are included with each unit.

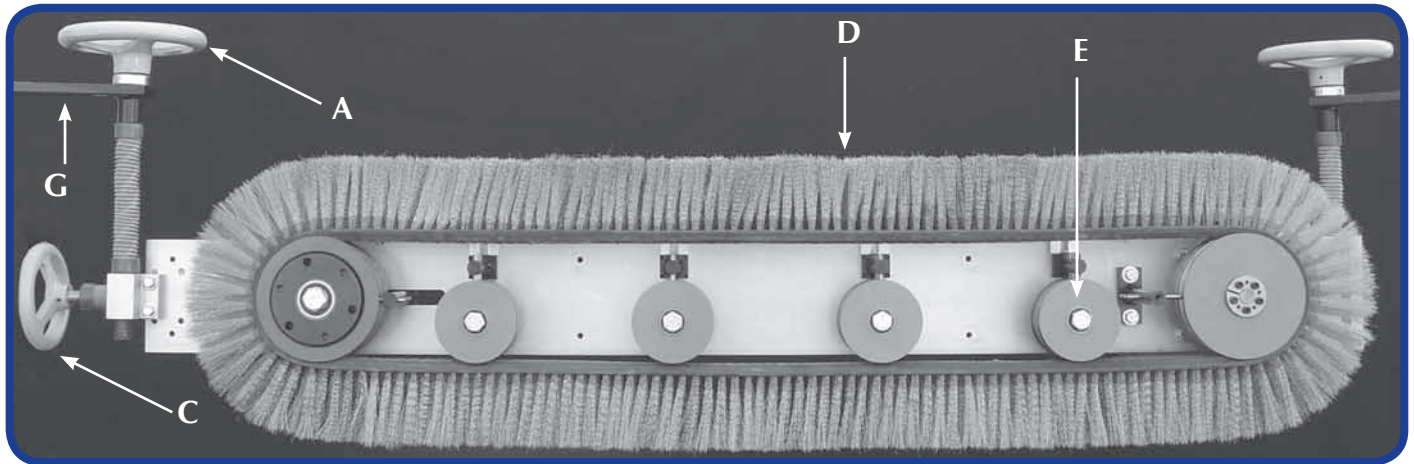
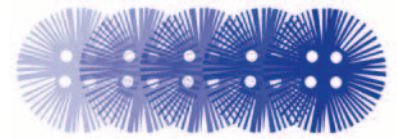
Quick adjustment for brush contact or brush tension is accomplished through elevating screws and belt tension devices. Custom units with electric, hydraulic or pneumatic devices and electronic controls are also available.

Low Maintenance

The amount of maintenance required and the ease with which it is done have been addressed in the S-VECO Linear Cleaning Systems. Brush replacement or adjustment is a simplified operation. By merely adjusting the elevating screws and/or the brush tension assembly, the brush can be quickly and easily removed for replacement or tightened for proper tension. All models have sealed bearings.



Features & Benefits



A. Elevation Screws

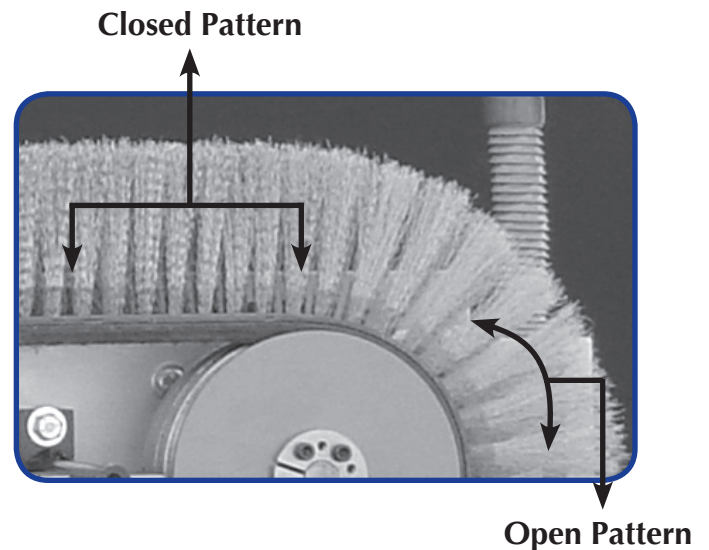
All S-VECO units incorporate some form of elevating or lifting mechanism. Standard units have elevator screws with hand wheels. Special units are available with electric or hydraulic actuators, which are either cycled manually or tied into various types of sensing devices and an electronic controller. The use of sensing devices and controllers has become popular on S-VECO units in high production applications such as Steel Mills, Foundries, and Glass Plants.

B. Hand Drawn Tufted Construction

These unique, continuous brushes are made by hand sewing the tufts into standard "B" or "D" section rubber Uni-V belts. Hand drawing is the most secure method of tufting, minimizing tuft loss or "shedding" (See picture B, pg 36).

C. Brush Tension Device

This device is a screw driven, slide assembly that positions the large, outside, non-driven sheave for proper tension on the brush. This device simplifies the process for releasing tension on the brush to facilitate brush replacement and tensioning. Proper tension prolongs brush life.



D. Self Cleaning Brush

S-VECO brushes are mounted on three grooved pulley sheaves. The brush is driven at approximately 1000 SFM. The benefit of a continuous brush belt traveling on 6" or 7" sheaves causes the brush pattern to open up as the brush courses around the pulley, as seen in the photo above. Combining the "opening" of the pattern with centrifugal force created by the brush speed, results in a self cleaning brush

E. Brush Stability

Idler sheaves are located at regular intervals between the two large sheaves. Sheaves are adjustable up or down to suit the application and to facilitate contouring of the brush. Proper adjustment of the idler sheaves insures maximum brush contact across its entire length. Proper positioning of the idlers also allows the S-VECO to be used for either top or bottom cleaning without additional hardware.

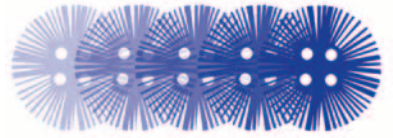
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Applications



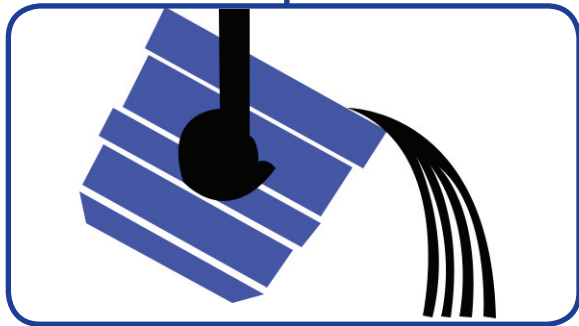
Mining Industries

Medium and Heavy Duty S-Veco units provide a positive effect to the bottom line by:

- Reduce Operating and Maintenance Costs
- Reduce lost material carry back
- Reduce carry back clean up time
- Reduce belt and idler wear
- Reduce belt cleaner stem maintenance time

Reduce conveyor carry back on:

- Taconite
- Coal
- Phosphate
- Cement



Foundry Industries

There are many S-VECO's used in the foundry industries. These brushes are helping to lower operation and maintenance costs while increasing productivity rates.

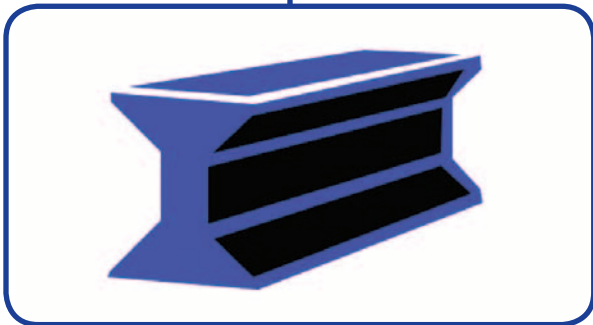
- Effective Cleaning
- Mold Car Tops
- Bottom Boards
- Sand Conveyors
- Recovery Sand Conveyors

Woodworking Industries

An S-VECO unit combined with a dust collection system has proven to be an effective way to do light to medium sanding and dusting operations.

Woodworking Operations:

- Door
- Paneling
- Plywood
- Chipboard
- Veneer and Laminate
- Furniture
- Hardwood Flooring



Metal Industries

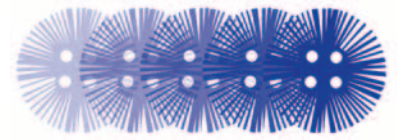
S-VECO units are used in applications to increase productivity, improve quality, and reduce maintenance costs.

Remove scale and surface impurities on:

- Aluminum Hot Strip & Plate
- Zinc Hot Strip
- Copper Hot Strip
- Steel Cold Slabs



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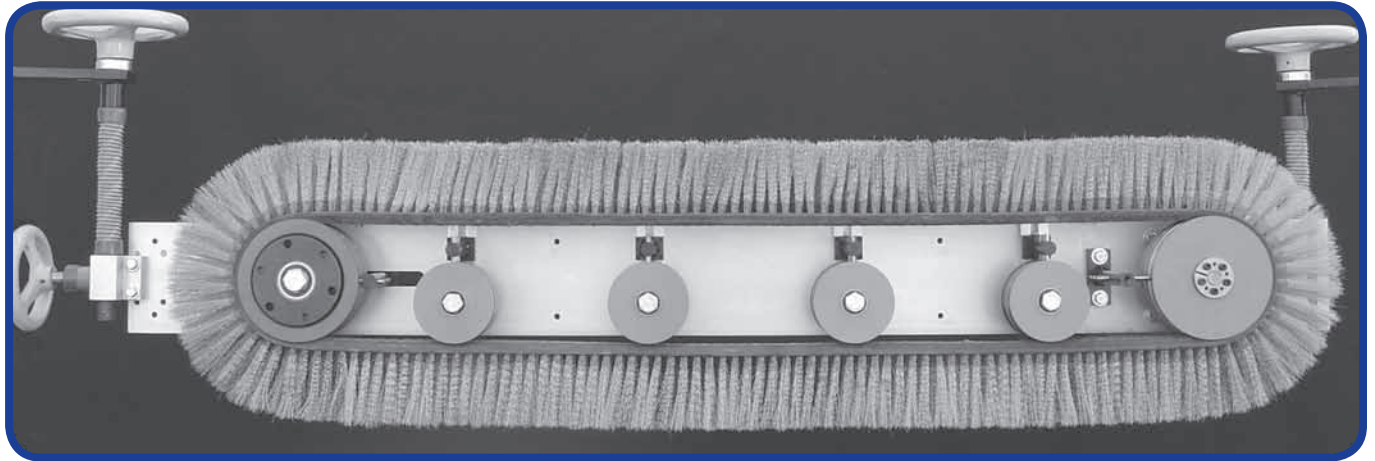


S-VECO - Model RMD

Medium Duty Linear Brushing System

Section 9-1

Custom units can be made to your specifications. Call for details!



Features:

- Field tested design
- High torque drive system
- All sealed bearings
- Wide selection of brush materials
- Most applications can be brushed
- Top and bottom brushing
- Contour idlers
- Proven effective
- Power to do the job
- Low maintenance
- The right brush for the job
- 18" to 96" surface contact
- Dual cleaning option available
- Adaptable to unique applications

Benefits:

Typical Markets/Industries:

- Foundries
- Power Plants
- Concrete Product Plants
- Mines
- Food Processing
- Paper Mills

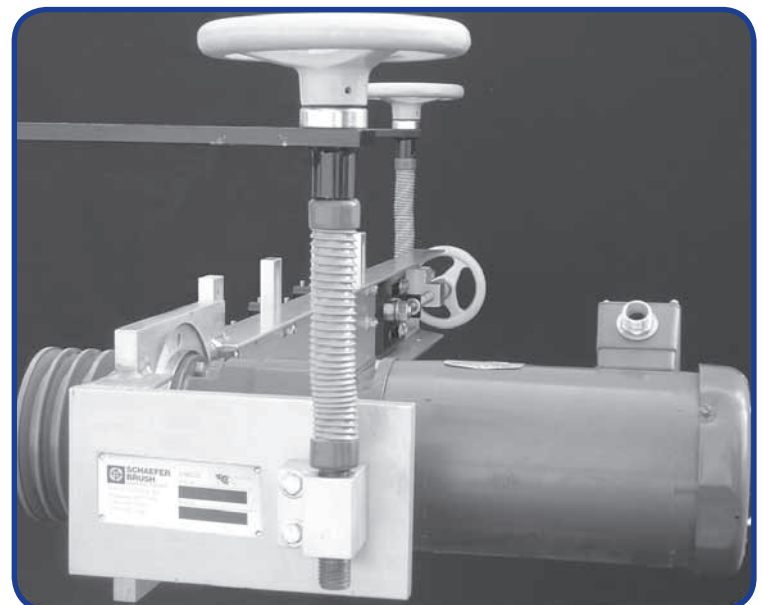
Suggested Applications:

- Conveyor belt cleaning
- Mold car sweep
- Panel cleaning
- Apply or remove coatings
- Transporting items/material handling applications

Versatile! Can be used in many different applications and industries.

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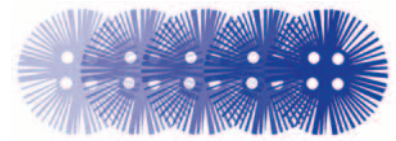


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Standard Equipment

Heavy Duty Brushes

Model RMD S-VECO belt brush is a three-banded, B section, Uni-V Belt filled with long wearing nylon, or aggressive stainless steel brush materials. This medium duty brush has a single row of brush material in each band, providing approximately a 2-1/2" wide brush face with a standard 3-1/2" long trim. Other trim lengths and materials are available to meet your needs.



Model RMD Medium Duty Linear Brushing Systems

Top View

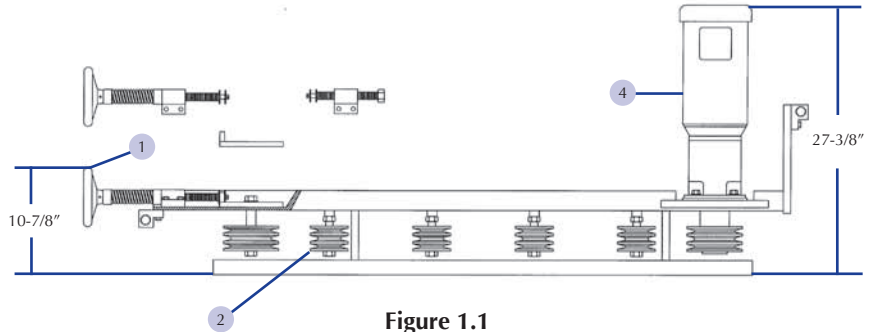


Figure 1.1

Brush Tensioning Device

A manually operated screw and slide assembly to which the brush sheave is mounted, provides the means for tensioning or relaxing the brush.

See figure 1.1 item 1.

Contour Idler Sheaves

Full brush contact and stability are achieved, even on irregular surfaces, through the proper positioning of the contour idlers. Idlers can be adjusted up or down to force the brush to conform to the surface being brushed, insuring proper cleaning and chatter free high speed brushing.

See figure 1.3 item 2.

Height Adjustment Device

The amount of brush pressure being applied against the surface being cleaned is of utmost importance. This pressure is controlled through the use of the Height Adjustment Device Elevating Screws. On standard models the elevating screws are manually operated. Other height adjustment devices are available.

See figure 1.2 item 3.

NOTE: The working part of a brush is the tip of the bristle. Exaggerated bristle deflection caused by excessive pressure will result in premature wear and failure. The only exception to this is the use of an abrasive impregnated brush fiber.

Power Source

RMD units are powered with various horsepower. A highly efficient 1725 RPM, TEFC, 3/60Hz, 208-220/440V electric motor is mounted directly to a sealed gear box. These two units are mounted directly in line with the driven brush sheave, forming a direct drive.

See figure 1.1 item 4.

Sealed Bearings

All sheave bearings are micro poly filled for maximum life.

Welded Aluminum Frame

RMD units are assembled on light weight extruded aluminum frames. Units are manufactured with an effective brushing range of up to 8 feet.

Model Number RMD	18	24	30	36	42	48	54	60	72	86	96
A-Effective Brushing Area	18	24	30	36	43	47.5	53.5	63	72	86	96
B-With standard 3-1/2" Trim	31	37	43	49	56	60.5	66.5	76	85	99	109
C-Total Frame Length (OAL)	36	42	48	54	61	65.5	71.5	81	90	104	114
D-Number of Contour Idlers	1	2	2	3	4	4	5	5	6	7	7

NOTE: DIMENSIONS ARE GIVEN IN INCHES.

Front View

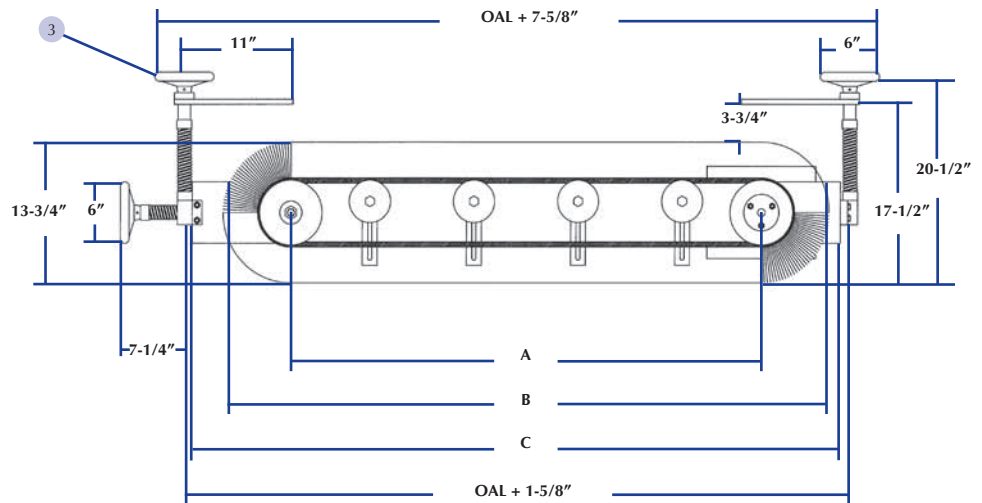


Figure 1.2

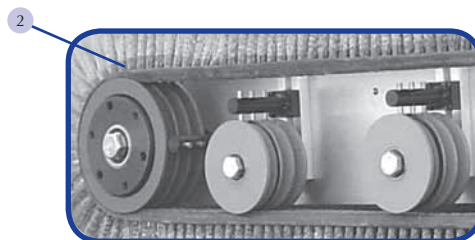


Figure 1.3

Contour idler sheaves shown with optional sheave cleaners.

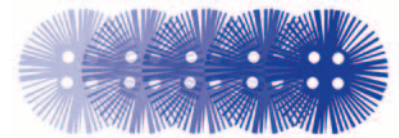
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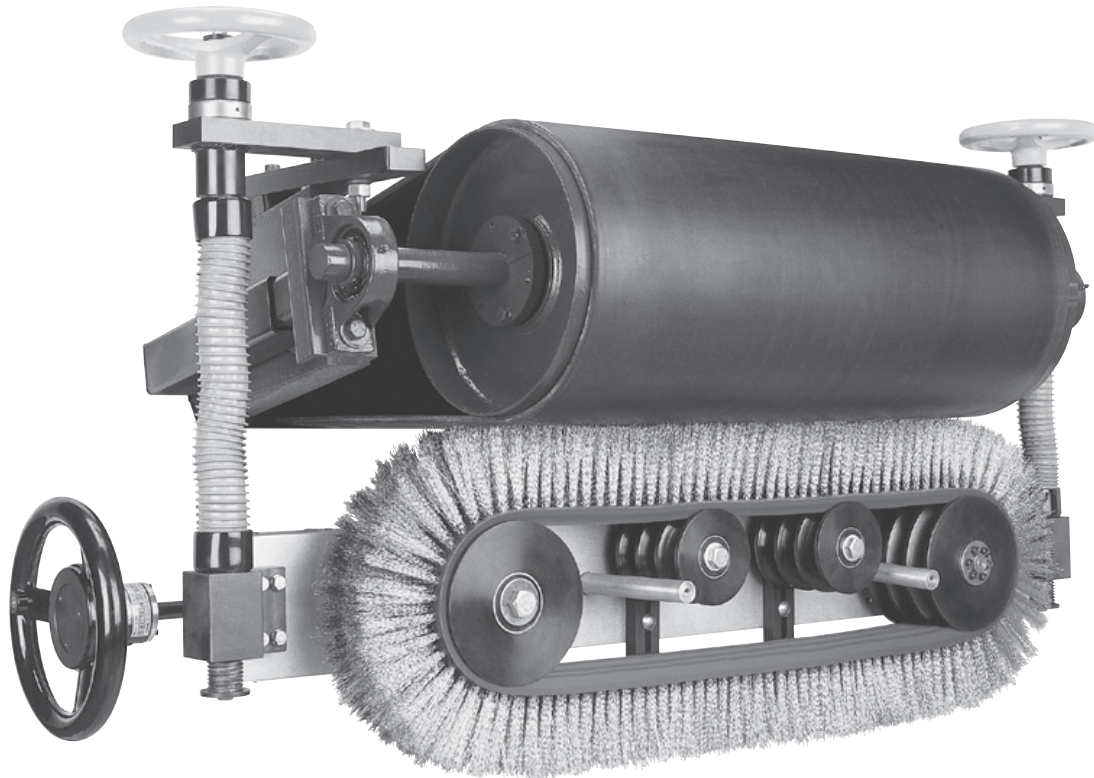


S-VECO - Model RMHD-D

Section 9-2

Extra Heavy Duty Linear Brushing System

Custom units can be made to your specifications. Call for details!



Features:

- Powerful direct drive
- Wide selection of brush material
- Micro poly sealed bearings
- High speed brushes
- Wide range of sizes
- Versatile design
- Contour idler sheaves

Benefits:

- Power & Torque to do the job
- The right brushes for the job
- Low maintenance costs
- Self cleaning
- Sizes from 24" to 124"
- Brush can be contoured to the surface being cleaned.
- Can be used on vertical or horizontal plane, on top or bottom of conveyor.

Typical Markets/Industries:

- Foundries
- Power Plants
- Glass Plants
- Concrete Product Plants
- Mines
- Food Processing
- Paper Mills
- Steel Mills
- Furniture Factories

Suggested Applications:

- Conveyor belt cleaning
- Mold car sweep
- Panel cleaning
- Apply or remove coatings
- Transporting items/material handling applications

Versatile! Can be used in many different applications and industries.

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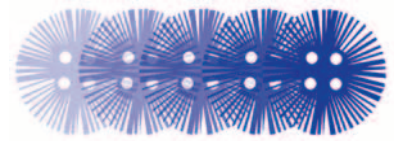


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Standard Equipment

Extra Heavy Duty Brushes

Model RMHD-D S-VECO belt brush is a three-banded, D section, Uni-V Belt filled with long wearing nylon, or aggressive stainless steel brush materials. This extra heavy duty brush has a double row of brush material in each band, providing approximately a 3-1/2" wide brush face with a standard 3-1/2" long trim. Other trim lengths and materials are available to meet your needs.



Model RMHD-D Extra Heavy Duty Linear Brushing System

Top View

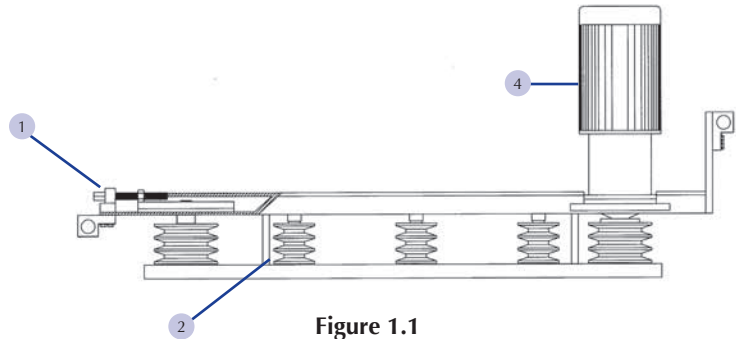


Figure 1.1

Brush Tensioning Device

A manually operated screw and slide assembly to which the brush sheave is mounted provides the means for tensioning or relaxing the brush. See figure 1.1 item 1.

Contour Idler Sheaves

Full brush contact and stability are achieved, even on irregular surfaces, through the proper positioning of the contour idlers. Idlers can be adjusted up or down to force the brush to conform to the surface being brushed, insuring proper cleaning and chatter free high speed brushing. See figure 1.3 item 2.

Height Adjustment Device

The amount of brush pressure being applied against the surface being cleaned is of utmost importance. This pressure is controlled through the use of the Height Adjustment Device Elevating Screws. On standard models the elevating screws are manually operated. Other height adjustment devices are available. See figure 1.2 item 3.

NOTE: The working part of a brush is the tip of the bristle. Exaggerated bristle deflection caused by excessive pressure will result in premature wear and failure. The only exception to this is the use of an abrasive impregnated brush fiber.

Power Source

RMHD-D units are powered with various horsepower. A highly efficient 1725 RPM, TEFC, 3/60Hz, 208-220/440V electric motor is mounted directly to a sealed gear box. These two units are mounted directly in line with the driven brush sheave, forming a direct drive. See figure 1.1 item 4.

Sealed Bearings

All sheave bearings are micro poly filled for maximum life.

Welded Aluminum Frame

RMHD-D units are assembled on light weight extruded aluminum frames. Units are manufactured with an effective brushing range of up to 12 feet.

Model Number RMHD-D	24	30	36	42	48	50	54	60	72	86	96	108
A-Effective Brushing Area	24	30	36	42	47	51	55	63	72	89	96	110
B-With standard 3-1/2" Trim	39	45	51	57	63	65	70	77	87	103	111	124
C-Total Frame Length (OAL)	43	49	55	61	67	69	74	81	91	107	115	128
D-Number of Contour Idlers	1	2	2	3	3	3	4	5	6	6	7	9

Note: Dimensions are given in inches.

Front View

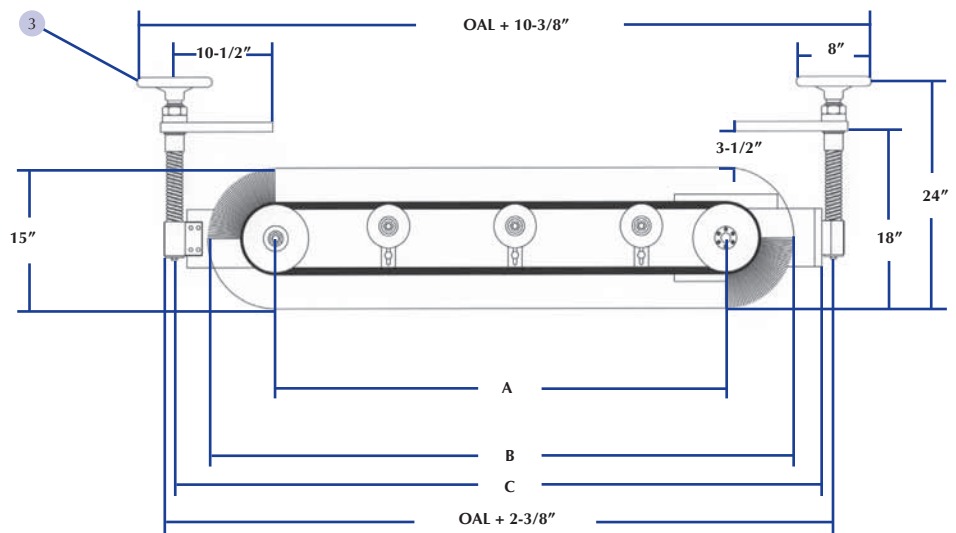


Figure 1.2

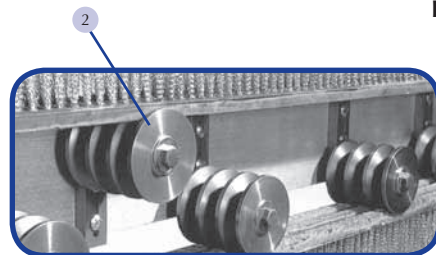


Figure 1.3

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