

BRUSH CLEANER

SECONDARY CONVEYOR BELT CLEANING SYSTEM

The Argonics Brush Cleaner is a completely contained system, which utilizes a Van der Graaf drum motor. This motor is an enclosed unit with all motorized parts inside the roller, making it the choice for the most challenging environments.



BENEFITS:

- Completely sealed drum motor
- One-component brush assembly with a compact, low-profile design
- Ideal for use on chevron or cleated belts
- Removes excessive carryback while reducing belt wear
- Virtually maintenance free
- Drum motor warms the brush, allowing it to clean effectively in even the harshest conditions
- Systems fit belt widths of 24"-72", with custom sizes available

APPLICATIONS INCLUDE:

- Mining
- Glass Plants
- Recycling Plants
- Cement Plants
- Biomass Facilities
- Coal-fired power plants
- Fertilizer
- Port Facilities



ARGONICS
ENGINEERED POLYURETHANE

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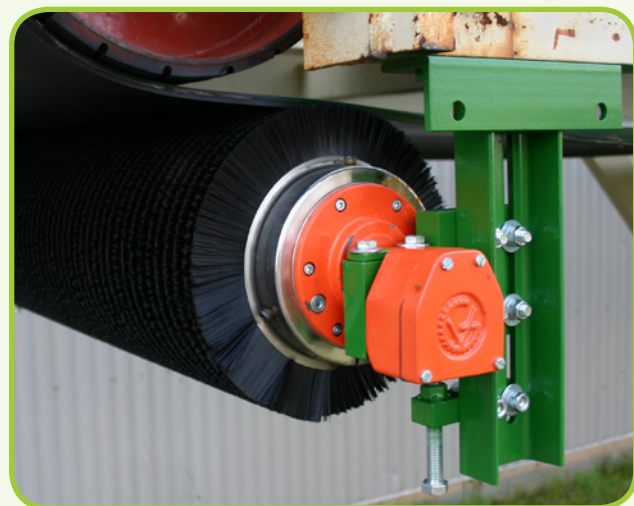
The Most Effective Spiral Brush Conveyor Belt Cleaner

The Brush Cleaner offers a solution to residual materials stuck on conveyor belts. The compact, low-profile design of this conveyor belt cleaning system provides space savings, efficiency and reliability with virtually no maintenance. The durable drum motor design is entirely sealed, providing a completely reliable, less complex solution.

The drum motor warms the entire brush surface, making it an effective cleaner in all conditions, including both wet and dry environments. The warmed brush effectively dries and sheds possible build-up debris.

Brush cleaner motor RPMs are matched to your belt speed to increase the wear life of the brush.

A variable-frequency drive (VFD) can be used to tune the cleaner for optimal cleaning efficiency.

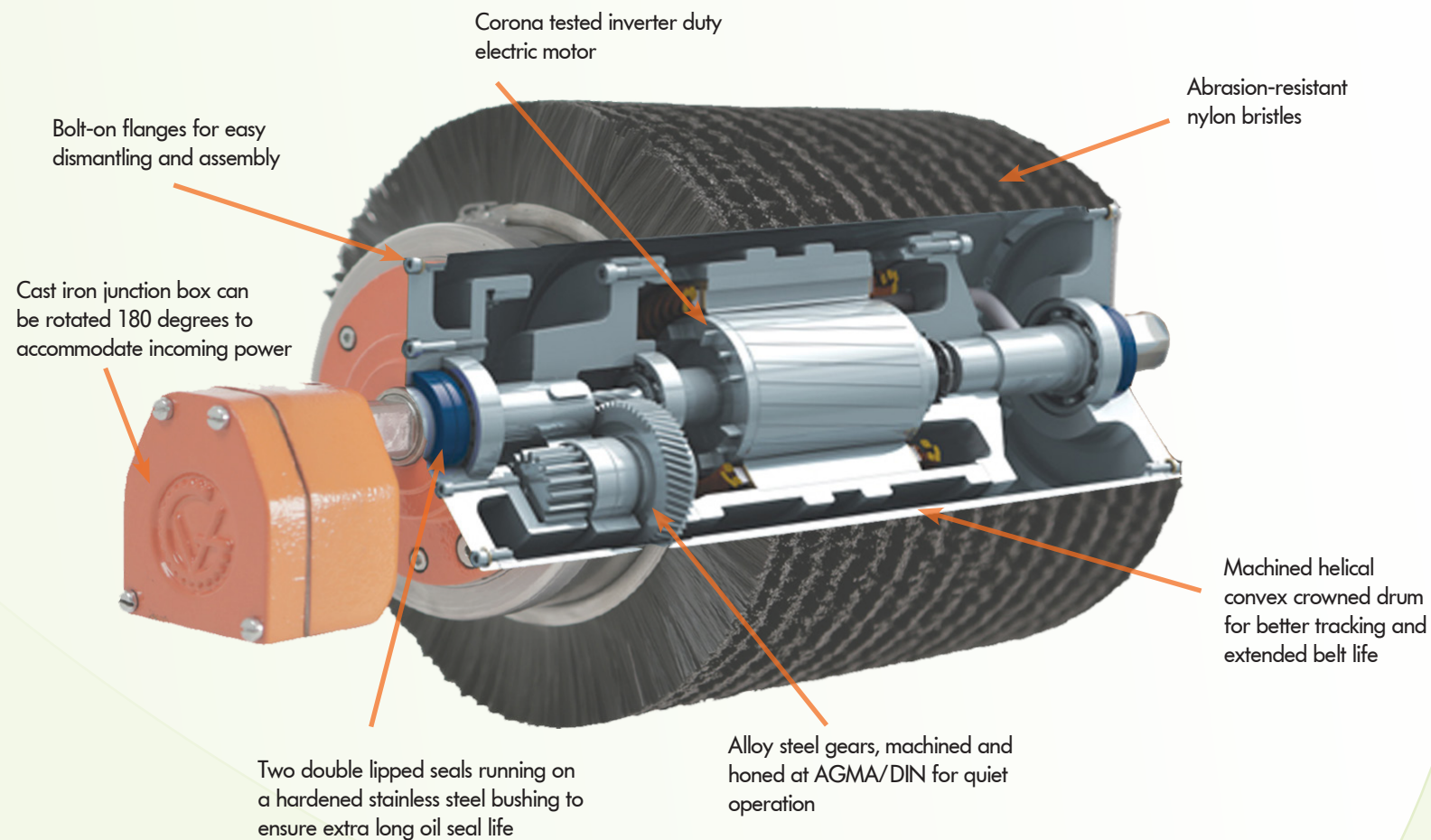


THE DRUM MOTOR

The Van der Graaf Drum motor is a one-component conveyor drive, with the motor, gear reducer and all moving parts fully enclosed inside the drum.

The motor and gear reducer operate in a sealed oil bath, ensuring proper lubrication and cooling.

The compact, low-profile design operates at 96% efficiency and can result in energy savings up to 30%.



DESIGN BENEFITS

Increases Operator Safety

All external moving parts that present safety hazards are eliminated, such as gearbox, chains, motor, chain guard and pillow block bearings.

Lower Energy and Operating Costs

Van der Graaf drum motors operate at 96% efficiency, resulting in lower operating costs compared to conventional drives. This can result in energy savings up to 30%.

Reduced Maintenance and Downtime

The motor is virtually maintenance free, only requiring an oil change after 50,000 hours (5.7 years) of running non-stop, which can be performed without removing the drum motor.

Reduced Noise Levels

Quality alloy gears reduce noise to minimal decibel levels far below OSHA standards.

STANDARD FEATURES

Cast Iron Components

The drum motor utilizes cast-iron gear housing and motor flanges. By choosing cast iron over lighter cast aluminum components, the drum motor will see greater levels of belt tensions and less wear and tear, resulting in longer wear life.

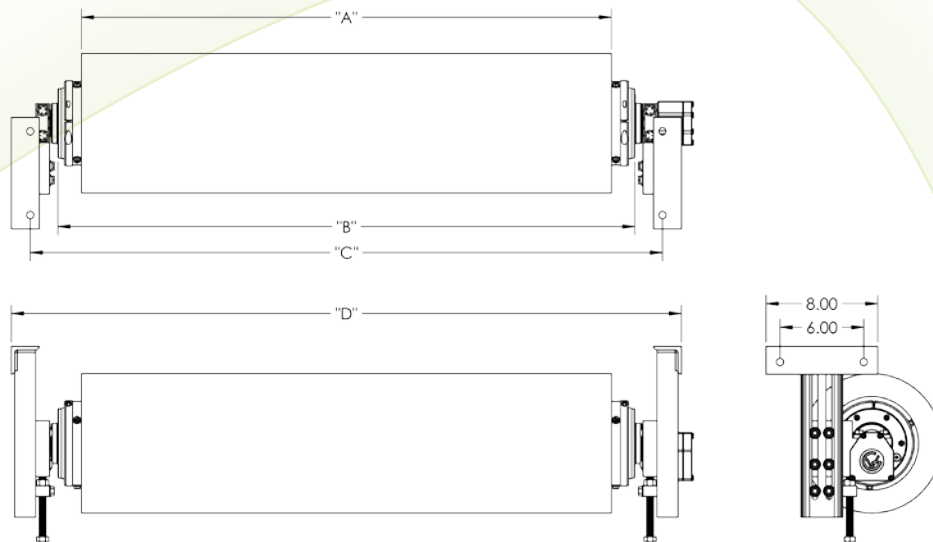
Electric Motors

All electric windings are manufactured to inverter duty standards.

Vacuum Pressure Impregnation

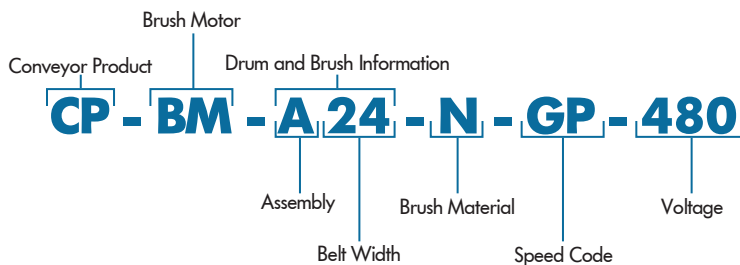
This state-of-the-art method is only used in less than 10% of the world's standard electric motor production and is primarily applied on extreme heavy duty applications. This process exponentially reduces electric motor failure.

SYSTEM INFORMATION



Belt Width (in.)	Part Number	"A" Brush Width (in.)	"B" Face Width (in.)	"C" (in.)	"D" (in.)	HP	Speed Range (fpm)
24	CP-BM-A24-X-XX-XXX	26	29.5	33.5	36.2	1	164-630
30	CP-BM-A30-X-XX-XXX	32	35.4	39.4	42.1	1	164-630
36	CP-BM-A36-X-XX-XXX	38	41.3	45.3	48.0	1	164-630
42	CP-BM-A42-X-XX-XXX	44	47.2	51.2	53.9	1	164-630
48	CP-BM-A48-X-XX-XXX	50	53.2	57.1	59.8	1.5	236-614
54	CP-BM-A54-X-XX-XXX	56	59.1	63.0	65.7	1.5	236-614
60	CP-BM-A60-X-XX-XXX	62	65.0	68.9	71.6	1.5	236-614
72	CP-BM-A72-X-XX-XXX	74	78.7	82.7	85.4	1.5	236-614

NOMENCLATURE



SPECIFICATIONS

Electric Motor: 3 Phase 60 Hz, available in 230, 480, 575 Voltage

CSA and UL Certified for operation in hazardous locations. Class II, Group E, F & G.

IP66 & 68 rated

Drum Motor: Standard mild steel shell, flanges and square shafts. Optional all stainless steel available.

Brush: Nylon 66 Continuous Spiral Brush, OD 10" standard

Other bristle diameters and brush materials are available



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