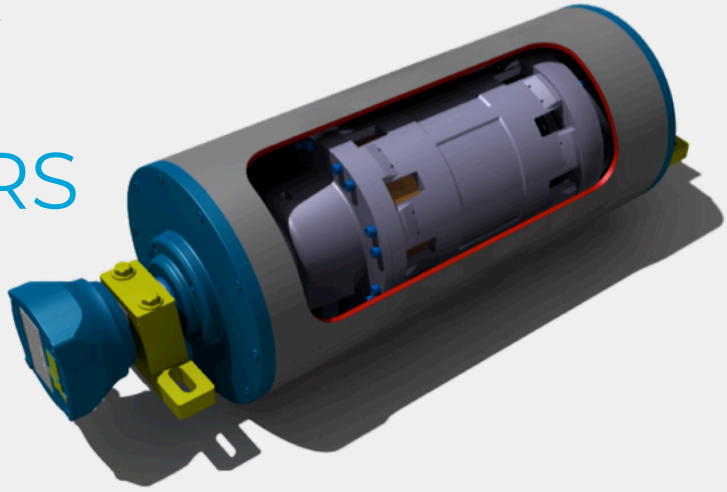
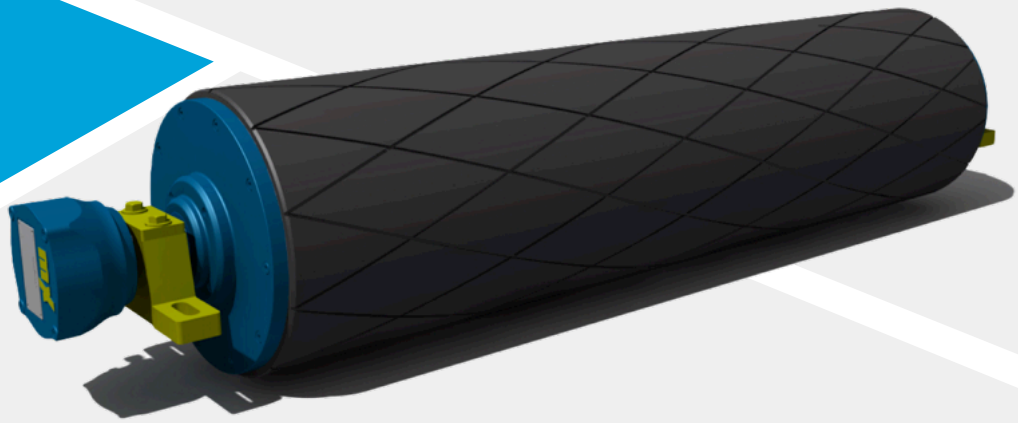
MINERALX

DRUM MOTORS

ED Series



Unmatched
Performance &
Reliability



Design Benefits

The MineralX Drum Motor is a one-component conveyor drive that houses all components internally, eliminating the need for external components like motor, gearbox, sprockets, chain, chain guard, and pillow block bearings. This design reduces operating and maintenance costs and improves safety conditions. Due to its completely sealed design, our drum motors can operate in extreme environmental conditions. The rugged design of the MineralX drum motor facilitates the end-user with a quieter environment, space savings, efficiency, and reliability with virtually no maintenance. The drum motor offers a versatile, less complex, and more efficient way to power your belt conveyor.

Increased Operator Safety

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

Reduce Noise Levels

Our gears are manufactured using high-quality alloy steel, and honed to ISO standards, reducing noise to minimal decibel levels. The profile grinded gear teeth play an extra role in noise reduction.

Reduce Maintenance & Downtime

The drum motor is completely sealed with no external moving components eliminating the need for continual chain adjustment and yearly maintenance. This enables our motors to be virtually maintenance-free, requiring only an oil change after 20,000 hours of operation which can be performed without removing the drum motor from the conveyor.

Enhance Space Utilization

The low profile of the drum motor results in a streamlined appearance making it more compact. This allows it to fit more belt conveyors into less floor or overhead space. It allows higher density and multiple applications.

The drum motors are available in a wide range of diameter sizes, belt speeds, horsepower, and face widths. The electric motor is available in all standard voltage and frequencies suitable for most applications.

STANDARD FEATURES

Cast-Iron Components

MineralX Drum Motor utilizes cast-iron gear housing and motor flanges. By opting for cast iron over lighter cast-aluminium components, MineralX Drum Motor is able to withstand greater levels of belt tension over typical motorized pulley designs.

Construction Materials

Drum motors are available in all mild steel and optional stainless-steel construction depending on the scope of application.

Cooling

The drum motor is designed with all vital components, such as the motor and gear reducer rotating in an oil bath, sealed and isolated from the environment. The temperature generated from the motor and gear reducer is transferred through the oil to the drum and is dissipated on the belt.

Hermetic Sealing

The drum motor incorporates high-quality seals to ensure an oil leak-free unit. This makes the system totally isolated from the other foreign materials from outside.

ELECTRIC MOTORS

Insulation

All materials used for the electric motor windings meet Class F standards (155˚C). The optional Class H standards (180˚C) are applied for applications with an ambient temperature of 50˚C and higher.

Supply Voltage

The drum motor can be supplied in all standard voltage and other nonstandard voltage and frequencies for three-phase or single-phase applications.

OPTIONS

Class H Insulation

The optional Class H standards (180˚C) are required for applications with ambient temperature of 50˚C and higher. By providing a higher insulation Class, the electric motor is able to withstand a higher ambient operating temperature.

All Stainless Steel

All units are available in all-stainless-steel construction, including end caps, shells, shafts and junction box.

Electromagnetic Brake

The drum motor with an all-internal electromagnetic brake provides accurate and positive stopping engagement. The motor and its rotating components come to a complete stop when power is switched off. When power is engaged, the brake releases, allowing the motor to operate as designed.

Backstop Clutch

The drum motor with an internal backstop clutch can avoid rotation of the drum in opposite direction.

Mineralx Flowtech Private Limited
S.F.No. 435/1A, Palathurai Road,
Madukkarai, Coimbatore,
Tamil Nadu, India - 641105

+91-6374714005
info@mineralx.in
www.mineralx.in