

ROSTA MOTORBASES

For constant belt tension!



Crushing & Mining Equipment

THE TRUE COST OF BELT DRIVES

The true cost of maintaining a belt drive can often go far beyond the price of a few rubber belts:

1. Cost of skilled labour to correctly tension belts and realign pulleys
2. Ongoing labour costs to retension the belts
3. Potential damage to expensive machinery and drive motors due to incorrectly tensioned belts
4. Lost production as a result of stopping critical machines to change or retension belts
5. Downtime due to machinery failures caused by incorrectly tensioned belts

ROSTA motorbases have successfully solved these problems in numerous applications, by providing continuous compensation for problems such as belt slack, stretching, hopping, fluttering and excessive tension. In some applications, ROSTA motorbases can actually maintain constant belt tension for the entire belt life.

ROSTA MOTORBASES

MAINTENANCE COSTS

Belts installed on conventional rails or jacking bolts are costly to change and maintain, due to the need to realign pulleys and periodically retension the drive. ROSTA motorbases fix the motor into a pivoted position that removes the need to realign pulleys every belt change.

The simplified tensioning arrangement decreases tensioning times dramatically. For example, after installing a ROSTA motorbase on a large crusher drive, belt change times have been decreased from 4-5 hours down to an average of 10-15 minutes.

WARMAN PUMP
WITH ROSTA
MOTORBASE



REDUCED MAINTENANCE
Constant tension!



MOTORBASE DRIVE
ON A CEDARAPIDS SCREEN

APPLICATION ADVANTAGES

Pumps

ROSTA motorbases can increase the belt life of pumps by up to 300%. In addition, customers are seeing improved equipment availability, decreased power consumption and optimised efficiency following the installation of ROSTA motorbases. In the past, belt replacements took an average of 12 hours and two people. Now it's 15-20 minutes and one person!

High startup torques

Excessive starting torques generated can damage motor bearings and burn belts. In extreme cases, the excess belt tension can even break shafts and damage bearings.

Under these conditions, ROSTA motorbases will deflect in the direction of the driven pulley, decreasing the overall load on the belts and preventing belt squeal. The result is less load on the drive and overall longer life.

For constant belt tension!

APPLICATION ADVANTAGES

Vibrating equipment

In applications such as screens where the driven pulley is oscillating, ROSTA motorbases oscillate along with the equipment to provide more uniform belt tension and a more efficient drive. While standard motorbases can often suffice, CME manufactures purpose-built units for screen drives to allow for extra movement of the driven pulley.

Crushers, impactors and shredders

Loading on these machines can often result in high fluctuations in power draw, forcing operators to slow feed to account for what may only be occasional power spikes. Under these conditions, ROSTA motorbases may compensate for the increase in belt tension caused by load spikes, reducing shaft loads and bearing friction. The result can be a smoothing out of power spikes, allowing for the potential to increase throughput.

Increased
belt life



D450LL MOTORBASE FOR SYMONS 7 FT CONE CRUSHER DRIVE.

APPLICATION ADVANTAGES

Centrifugal fans and airconditioning units

In applications such as this where vibration isolation is critical, ROSTA motorbases may be effective in decreasing vibration transmission into the building structure.

A VARIETY OF APPLICATIONS

- Automotive
- Compressors
- Conveying equipment
- Crushers
- Exhaust fans
- Gearboxes
- HVAC
- Impactors
- Pumps
- Screens
- Shredders
- or anywhere there's a belt drive!

SIZE CAPACITIES

CME can supply motorbases for most motors from 0.75 kw up to 750 kW.

ROSTA 

ROSTA MOTORBASES

CURRENT MOTORBASE USERS

- BHP Billiton
- Carter Holt-Harvey
- Crushing Services International
- Hanson
- Hard Rock International
- Ludowici
- Pilbara Iron
- Schenck Australia
- Stratton Coal
- Tiwest

HOW CME CAN HELP YOU

CME offers assistance to facilitate the simple installation and handling of any size motorbase in any application. All motorbases are supplied with an instruction manual for operation and are delivered complete.

We can also manufacture motorbases to suit your exact requirements.

For sales or technical enquiries on ROSTA motorbases, please contact CME at the location nearest you.



Pulleys remain aligned

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