TUNGSTEN CARBIDE COATING MAXIMIZES DURABILITY, IMPROVES TRACKING FOR CONVEYOR DRIVES

Internally-powered drum motors, with a tungsten carbide traction coating on the roller shell, that provide maintenance-free operation and virtually eliminate belt tracking problems are available from Van der Graaf Inc., Brampton, Ontario. The tungsten carbide coating, applied using a proprietary process, compliments the standard parabolic (machine-crowned) shell ensuring even belt wear and extending belt life. The coating is more durable than conventional rubber lagging and is ideally suited for new and existing conveyors in quarries, mining operations, asphalt and concrete production, construction and demolition projects and waste management facilities, among others.

The tungsten carbide coating, available on the complete line of Van der Graaf drum motors, increases bulk conveyor belt efficiency by minimizing downtime and maintenance costs. The hard-faced coating has a hardness of up to 72 Rc and a surface texture of 500 RMS. Applied in thicknesses of from 0.006- to 0.010-inch, the coating provides excellent friction to rubber and other belting materials.

Energy Savings Benefit

A major cost savings when using efficient and reliable drum motors versus conventional drives is energy consumption. Several factors must be considered when comparing each drive method, but a recent independent study showed the internally powered drum motors run at 96 percent efficiency and use as much as 34 percent less energy than conventional drives. A copy of the comparison is available on a CD from

Van der Graaf or it can be found on the Van der Graaf website under “Conveyor Drive Comparison”.

Additional Benefits

Drum motor installation is quick and easy requiring less than half the time needed to install exposed conveyor drives. The motor’s compact, low-profile design eliminates all external parts, such as: motors, gearboxes, chains or belts, pillow block bearings and associated guards. The drum motors with internal braking can operate as either a normal unit, idler unit or brake unit depending on application requirements.

The drum motors with braking have a horsepower range from 0.11 to 15.0 hp. Standard face widths range from 9.84 to 45.28 inches depending on motor size. Drum speeds are fixed and range from 23 to 1039 ft/min to match an unlimited number of applications.

For more information on Drum Motors with Tungsten Carbide Coating contact Van der Graaf Inc., 2 Van der Graaf Court, Brampton, Ontario L6T 5R6 Canada, phone 888-326-1476, fax 905-793-8129, www.vandergraaf.com.

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