

# HEAVY AND EXTREME DUTY DRUM MOTORS



The **Van der Graaf (VDG) Heavy-duty** and **Extreme-duty Drum Motors** are built for **harsh, abrasive and demanding applications**, from aggregate processing to underground mining, ship loading and power generation. The rugged, extreme-duty drum motors are available **up to 500 hp and 42 inch diameter**, with variety of lagging options to provide a durable drive with a long service-life.

The drum motor design is a one component conveyor drive, with no external motor, gearbox, belts, chains, sprockets, sheaves or couplings. All components are housed inside the drum, minimizing drive space, increasing efficiency and virtually eliminating maintenance. Drum motors have a safe and worry-free design that withstands the harshest conditions and reduced operating costs.

## DESIGNED FOR ABRASIVE AND DEMANDING ENVIRONMENTAL CONDITIONS



### NO MAINTENANCE

- Completely sealed design - no wear parts or grease points.
- Only an oil change required after 50,000 hrs. of operation.

### LOWER ENERGY COSTS

- Operate at 96% mechanical efficiency resulting in lower operating cost.
- Energy savings of up to 30% compared to conventional exposed-drive conveyors.

### OPERATOR SAFETY

- No moving parts outside of the conveyor frame.
- MSHA/OSHA compliant.



### CONSTRUCTION

- Heavy duty bolt-on construction; withstands greater levels of belt tension and shock loading compared to typical motorized drives.

### MECHANICAL SEALING SYSTEM

- All drum motors in this series are equipped with robust mechanical seals; preventing abrasive materials from penetrating the drive.