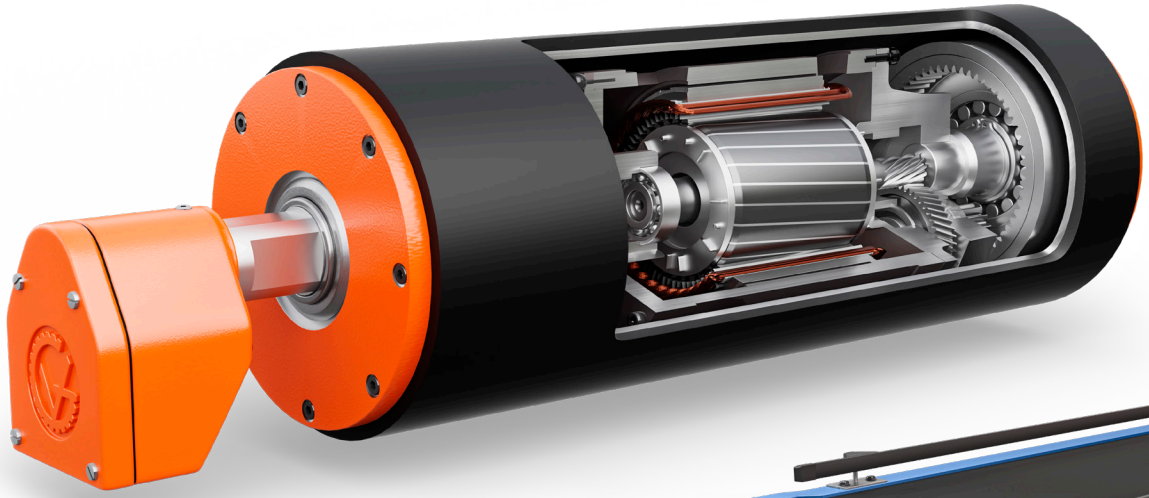
Standard Series Drum Motors

Standard Series Drum Motors are designed for belt conveyors for a variety of material handling and processing applications, including packaging, warehousing, postal, parcel, automotive, and baggage handling. All drive components are enclosed and protected inside the drive roller and are designed for 80,000 hours of continuous operation before maintenance, reducing operating costs while increasing throughput.

With no external components, VDG Drum Motors eliminate the safety risks associated with traditional external motor and gearbox conveyor drives. The low-profile drum motor reduces the overall footprint of the conveyor, allowing more conveyors to fit on the same floor or overhead space.

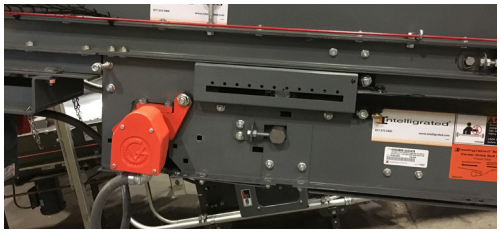
The electric motor is in-line with the gear reducer and operates at 96% mechanical efficiency, reducing energy consumption and costs. Gears are manufactured in-house by VDG using state-of-the-art gear cutting and shaping equipment, honed and ground to DIN6 industry standards for low decibel noise levels that exceed OSHA requirements. VDG Drum Motors provide a space-saving, less complex, efficient, reliable, and maintenance-free solution to power belt conveyors.



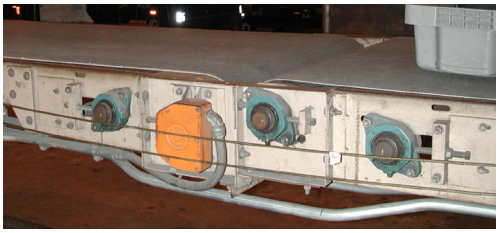
View Video



- **OPTIMIZE SPACE**
- **REDUCE ENERGY COSTS**
- **INCREASE WORKFORCE SAFETY**
- **REDUCE MAINTENANCE & OPERATING COSTS**







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Made In USA

VDG Van der Graaf

Standard Drum Motor Features & Options

DIAMETER *(inches)*	HORSEPOWER RANGE *(HP)*	BELT SPEED *(ft/min)*	DRUM MOTOR *(TM)*
4.0	0.11 - 0.25	9 - 409	TM100B25
4.5	0.16 - 0.75	17 - 1039	TM113B25
5.0	0.25 - 1.5	5.8 - 316	TM127B30
5.4	0.25 - 1.5	6 - 343	TM138B30
6.5	0.75 - 3.0	43 - 272	TM160B40
8.5	2.0 - 7.5	47 - 1117	TM215B40
8.5	2.0 - 7.5	44 - 142	TM215B50
12.5	5.0 - 15.0	130 - 661	TM315B50
12.5	5.0 - 15.0	76 - 402	TM315B60
12.5	10.0 - 15.0	30 - 100	TM315A75

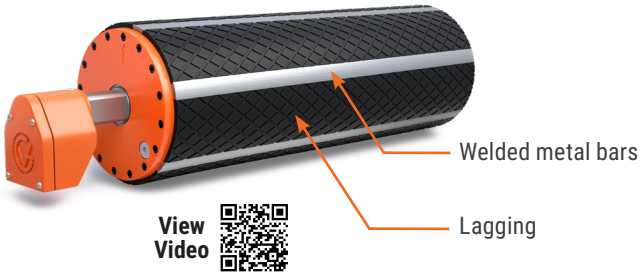
	STANDARD	OPTION
POWER CONNECTION	Junction Box	Cable; Straight or Elbow
ELECTRIC MOTOR*	Class H (180ºC) VFD rated, Inverter-duty VPI	GV Thermal Overload Protection
VOLTAGE	480V 3 Phase	All non-standard voltage and frequency for 3 Phase applications
BACKSTOP	–	CW - Clockwise or CCW - Counter Clockwise
ELECTROMAGNETIC BRAKE	–	Available for TM127 and higher
LAGGING	–	VDG patented IronGrip™ (TM160 and higher) Black Rubber, USDA/FDA Blue or White Nitrile Rubber: plain, diamond, or chevron pattern

***** All VDG premium-efficiency electric motors are manufactured in-house by VDG and undergo a **Vacuum Pressure Impregnation** (VPI) process, increasing the life of the electric motor.

VDG IronGrip™ Lagging:

The VDG patented IronGrip™ lagging system has metal bars welded lengthwise on the drum with hot-bond vulcanized rubber lagging sections between the bars. The metal bars prevent the rubber from wearing below the bars.

- **IMPROVE TRACKING**
- **INCREASE TRACTION BY 50%**
- **EXTEND THE LIFE OF THE BELT**



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