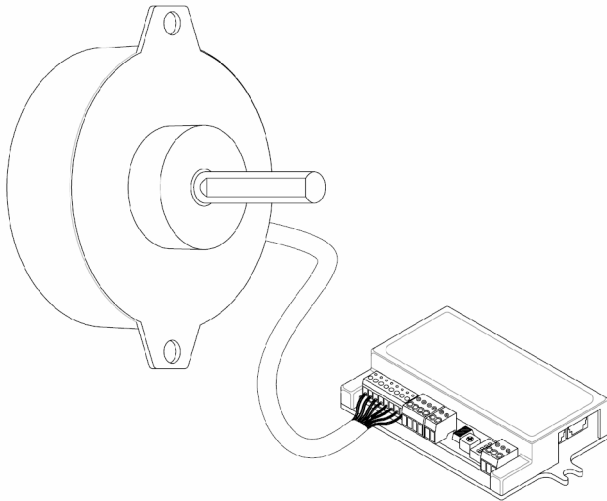


New motor drive system designed specifically for unit handling conveyors provides exceptional reliability, very low noise, and outstanding design flexibility to conveyor manufacturers.



The UniDrive™ motor has just one moving part, operates almost silently, and gives you unprecedented flexibility in both conveyor design and manufacturing lead time.

If you are frustrated by the reliability, noise, and manufacturing difficulties that can come with motorized conveyor rollers, the new UniDrive™ motor promises greater reliability and design freedom than you may have ever thought possible. The system is remarkably simple and cost-effective, consisting of an externally-mounted direct drive brushless DC motor, a sheave, and an electronic speed control. It is especially well-suited for small package conveyors, where small-diameter rollers, tight roller spacing and narrow conveyor widths are required. It also provides ample torque to drive unusually long zones or inclined sections.

Extreme Reliability: 125,000 Hour Bearing Life

The new UniDrive™ system uses an extremely reliable 4 $\frac{5}{8}$ -inch diameter brushless DC servo-motor with an electronically controlled operating speed of just 275 rpm. It produces very high torque at low speed without using failure-prone gear reducers, linkages, or drive chains. The large motor diameter incorporates robust ball bearings that last much longer than those in typical 1.9" motorized conveyor rollers. The net result is a 125,000 hour calculated bearing life (L₁₀ ANSI/AFBMA Std 9-1978.)

Almost Silent Operation

The UniDrive™ motor is almost silent in operation at full power. There are no gears, drive chains or other moving parts to generate noise. It is an ideal noise control solution for larger conveyor systems with many powered sections, or for systems installed in large, already-noisy environments.

Outstanding Design Flexibility

You get complete design flexibility with the UniDrive™ system. With its single motor, two sheaves that you manufacture, and the electronic speed control, you can achieve conveyor speeds from below 30 feet per minute up to 300 feet per minute. Because the drive motor is external and mounts on the conveyor frame, you get unprecedented flexibility to design conveyors with very small-diameter rollers or unusually narrow widths. At just 1 $\frac{1}{2}$ " thick, the motor can easily mount out of the way, inside the conveyor frame.

Reliable Controller Interfaces Easily with Distributed Control Systems

The UniDrive™ motor controller is a rugged, reliable device that gives you plug-in connectability. Its closed loop system provides very precise start-up and braking.

You Control Your Manufacturing Lead Time

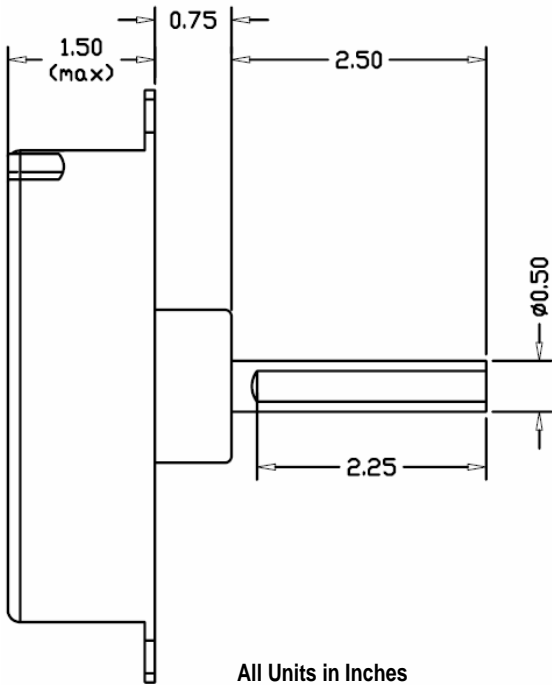
Because a single motor/controller system fulfills the needs of virtually any roller pitch and frame width, the UniDrive™ system frees you to design specifically for your customers' needs. Your only time limitation is how quickly you can fabricate slave rollers and sheaves. By contrast, if you design with conventional motorized rollers supplied by outside vendors, their lead time for unconventional widths can be long enough to prevent your company from winning the next order.

Simple to Service

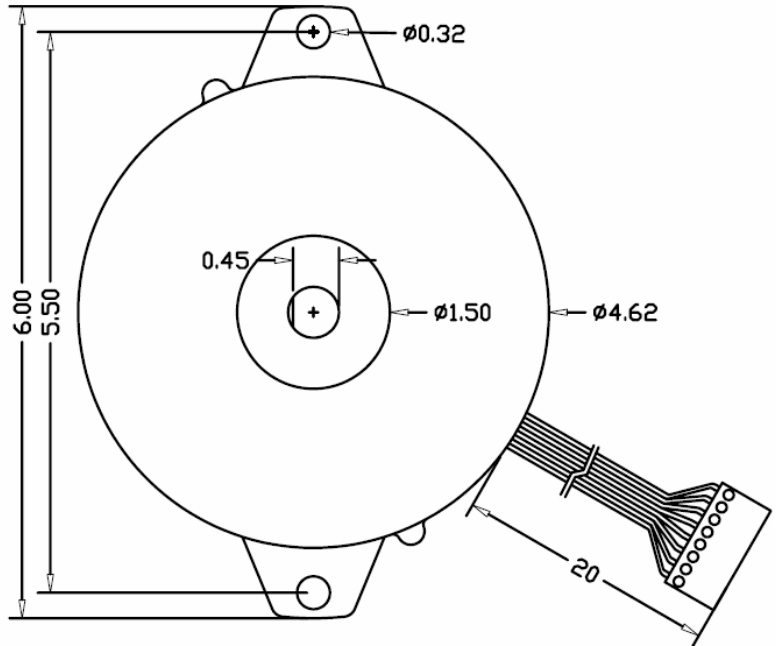
If a motor ever fails, it is easy to replace because it's mounted externally. Simply unplug it and remove two standard mounting bolts. Only one part number needs to be stocked by you or your customer for spares and repairs.

Backed by a Three Year Warranty to Conveyor OEMs with Approved Applications

US Patent Pending



All Units in Inches



Specifications

Motor Specifications

Type	3-phase Brushless DC	
Power	0.10 HP	75W
Rated Speed	275 RPM	29 r/s
Rated Torque	14 in-lb	1.64 N-m

Control Ratings	Nominal	Minimum	Maximum
Input Voltage	24 VDC	22 VDC	28 VDC
Current Limiting	3.0 A	2.8 A	3.4 A
Speed Limiting	275 RPM	270 RPM	280 RPM
Continuous Duty Current	3.0 A		
Minimum Speed (Pot)	55 RPM		

Ratings at 68°F (20°C) ambient Temperature.
 US Patents 6,244,421 and 6,253,906 and Patents Pending

For more information, contact:

Sales@AutomationControlsGroup.com

Telephone: 931-537-3950

Control Features

UniDrive Smart Conveyor Control (SCC) Functions

Zero-Pressure Accumulation (ZPA)	Automatic
ZPA-ZIP Control (doubles throughput)	Selectable
Zone-to-zone Interconnection	Phone Cable
NPN or PNP Interface	Selectable
Entry or Exit Zone Capability	Selectable
Over Current (Short Circuit) Protection	5 A Replaceable Fuse
Over Temperature Protection	Automatic Fold-back
Over Speed Protection	Automatic Braking
Over/Under Voltage Protection	Automatic Shutdown
Sensor Interface (3 Position Plug Supplied)	Pwr, Gnd, Input
Power Input (2 Position Plug Supplied)	Polarity Protected
Dual Motors in Zone (Master/Slave)	Except Entry/Exit
Stand-alone Operation (Remote Control)	Selectable

Available Now to Conveyor OEMs.