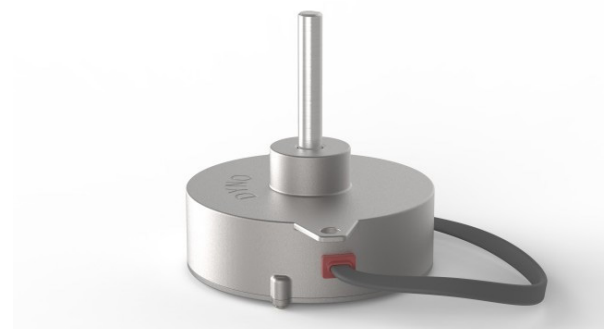


100W DYNODRIVE MOTOR

Designed specifically for unit handling conveyors, DynoDrive is a Zero Pressure Accumulation (ZPA) System. Exceptionally reliable, quiet and with outstanding design flexibility this is simple and cost-effective to use; consisting of an externally mounted, direct drive, brushless DC motor, driven by its own individual control card. It is especially well suited for small package conveyors where small diameter rollers, tight roller spacing and narrow conveyor widths are needed.

Features & Benefits

- Safe, 24v low power consumption.
- Exceptional reliability using a brushless dc motor with an electronically controlled operating speed of just 280 rpm. It produces high torque at low speed without using failure prone gear reducers, linkages or drive chains. The net result of the low speed combined with the robust bearings is a 310,000 hour calculated bearing life (L_{10} ANSI/AFBMA Std 9-1978.)
- Very low operational noise, there are no gears, drive chains or other moving parts to generate noise.
- Easy to install with plug and play simplicity and complete installation, set-up & troubleshooting guide available on request.
- Maintenance friendly, easy to replace as motors are externally mounted and only one part required to be stocked for spares and repairs.
- Design flexibility, externally mounted drive motor means it easily adapts to a variety of roller sizes and conveyor widths.
- Use with SCC3 or SCC3 High Performance control cards
- Couple with 5:1, 7.5:1, 10:1 or 20:1 DynoDrive Cube assemblies for a compact motor/reducer package or pallet handling or industrial applications.



How it Works

A Dynodrive motor is fitted at regular intervals along the length of the conveyor, this enables the loads to be automatically controlled in 'zero pressure zones'.

The stop / start action of these motors is automatically controlled by photocell sensors fitted at each end of the zone, these send information to the control card link to that motor.

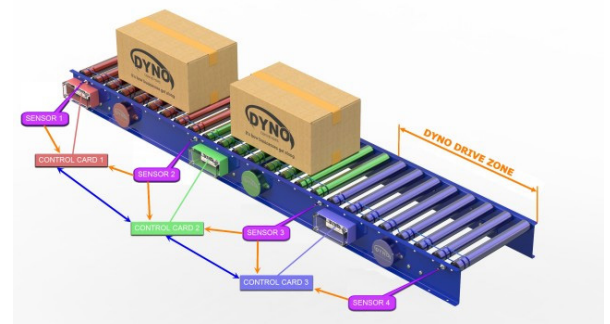
As the loads are conveyed along the conveyor, the photocell sensors inform the control card that product is present. The control card then checks that the forward zone is unoccupied. If the zone is clear, the downstream motor starts thus enabling the product to be passed forward where the action is repeated.

If however, the downstream zone is occupied then the control card stops the motor immediately under the product until the downstream zone is clear.

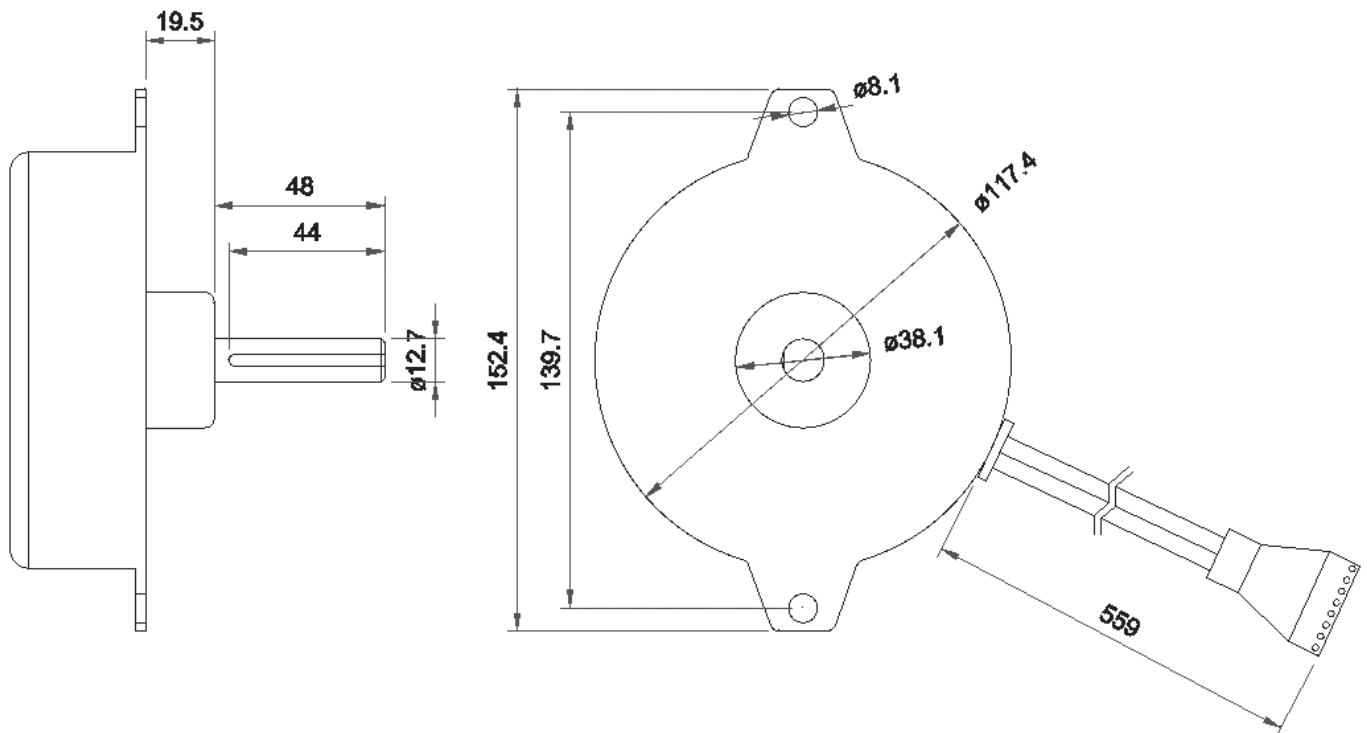
In the event that no loads are present or moving on the conveyor, then zones are stopped effectively saving energy.

Common Uses

- Warehousing
- Food dispatch and packing
- Manufacturing



100W DYNODRIVE MOTOR



Specifications

Input Power

	US Units	Metric Units
Voltage (rated)	24.0 VDC	24.0 VDC
Amperage (rated)	4 Amps	4 Amps
Amperage (no-load)	0.17 Amps	0.17 Amps
Watts (rated)	96 Watts	96 Watts

Output

Speed (rated)	280 RPM	29.3 r/s
Speed (minimum)	56 RPM	5.9 r/s
Torque (continuous)	15 In•lbf	1.69 N•m
Torque (starting)	42 In•lbf	4.75 N•m

Motor Constants

K_E (Back EMF)	67.0 V/kRPM	0.64 V/r/s
K_T (Torque / Amp)	90.6 In•oz/A	0.64 N•m/A
R_T (Terminal Resistance)	1.7 Ohms	1.7 Ohms