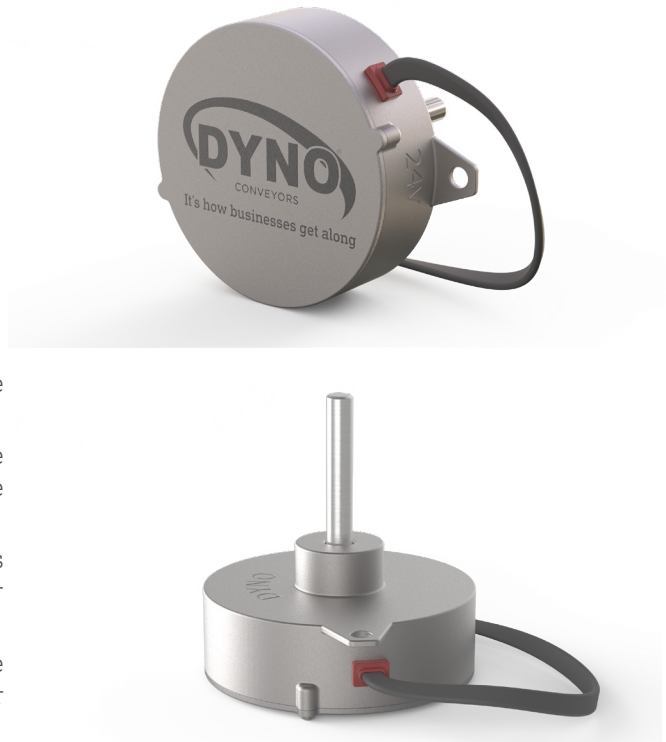# DYNODRIVE MOTOR

Designed specifically for unit handling conveyors, DynoDrive is a Zero Pressure Accumulation (ZPA) System. Exceptionally reliable, quiet and with outstanding design flexibility they are 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 ranging from 55 to 700 RPM. It produces high torque at low speed without using failure prone gear reducers, linkages or drive chains. The net result of the lower speed combined with robust bearings is a large, calculated bearing life (L10 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 and 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.
- Couple with 5:1, 7,5:1, 10:1 or 20:1 DynoDrive Cube assemblies for a compact motor / reducer package for 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.

DYNO
5 YEAR
WARRANTY
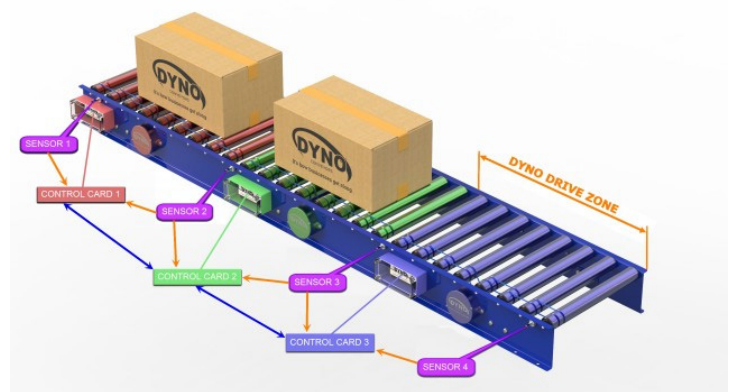
Specifications

	Part Number	Shaft Type	Shaft (Inches)	INPUT			OUTPUT						
				Voltage (Rated)	Amperage (Rated)	Amperage (No-Load)	Rated Output Watts	Maximum Speed RPM	Torque at Max Speed	Rated Speed	Torque at Rated Speed	Minimum Speed	Stall/ Starting Torque
25W	300985	D-Shaft	2.5	24 VDC	2	0.2	25	350	3	280	8	70	>8
48W	300986	D-Shaft	2.5	24 VDC	3	0.2	48	280	10	250	15	55	>15
	301481	D-Shaft	1.38										
	301373	Keyed	1.8										
100W	300987	D-Shaft	2.5	24 VDC	4	0.3	60	350	15	350	15	70	>15
	301233	Keyed	1.8										
80W	300988	D-Shaft	2.5	24 VDC	5	0.4	80	450	15	450	15	90	>15
	301234	Keyed	1.8										
100W	300989	D-Shaft	2.5	24 VDC	6	0.5	100	560	15	560	15	110	>15
	301235	Keyed	1.8										
120W	300990	D-Shaft	2.5	24 VDC	7	0.6	120	700	14	700	14	140	>14
	301236	Keyed	1.8										

Performance shown is typical and is dependent on the control used and the motor temperature.

Dimensions

D-Shaft (1.38")

1.38 [35.1]
$\varnothing.4997^{+.0000}_{-.0005}$ $[12.69^{0.000}_{-0.013}]$
1.20 [30.4]

D-Shaft (2.5")

2.51 [63.8]
$\varnothing.4997^{+.0000}_{-.0005}$ $[12.7^{0.000}_{-0.013}]$
2.26 [57.4]

Keyed Shaft (1.8")

1.82 [46.2]
$\varnothing1.43^{+.000}_{-.015}$ $[36.3^{0.0}_{-0.4}]$
1.63 [41.4]
$\varnothing.4997^{+.0000}_{-.0005}$ $[12.692^{0.000}_{-0.013}]$

1.43 [36.3]
.11 [2.8]

FOR Ø 5/16" [8 MM] MOUNTING BOLTS
$\varnothing1.56$ [39.5]
$\varnothing4.65$ [118.1]
6.01 [152.7]
5.50 [139.7]
20.00 [508.0]

Shaft End View

.07 [1.8]
.125 [3.2]
.445±.003 [11.3±0.1]
D-Shaft
Keyed

DYNO
CONVEYORS