

ROLLERDRIVE SERIES EC5000

ø 2.36", cylindrical, IP54, for 32 to 104 °F



24V

Application area

Drive for unit handling conveyor systems, such as transporting cardboard cartons, containers, platens, (truck) tires or lightweight pallets at normal ambient temperature. Suitable for straight conveyors, small belt conveyors and especially zero-pressure accumulation conveyors. Also usable in aligning conveyor segments or transfers or other "conveyor system branches".

48V

20W

35W

50W

AI

BI

Compact design

The motor integrated in the tube allows a very compact design of the conveyor system.

Very energy-efficient

The brushless drive features energy recovery when braking. The conveyor system can operate without pneumatics or conventional drives, which must be operated continually.

Flexible possible applications

RollerDrive is available in many variations, allowing it to be used in all types of different conveyor systems. For the user, this translates into a single interface instead of many. Nine gear ratios allow selecting the perfect pairing between speed and torque. The electronic holding brake (Zero-Motion-Hold) holds conveying goods in position, even on gravity conveyors.

Low-noise

The use of decoupling elements achieves particularly low-noise running.

Maintenance-free and installation-friendly

The drive with internal commutation electronics does not require any maintenance. It features an overload protection that prevents damages due to overtemperature or blockage. It is connected securely without complex screw connection by using a motor cable with 5-pin snap-in plug.



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Technical data

Rated voltage	24 V	48 V
Power	50 W	50 W
Rated current	3.4 A	1.7 A
Starting current	7.5 A	3.8 A
Max. noise emission (installed)	55 dB(A), application-dependent	
Length of motor cable	19.69"	
Max. reference length	59"	
Ambient temperature in operation	32 to 104 °F	
Max. load capacity per RollerDrive with PolyVee drive head	123 lbs	
Motor shaft	Stainless steel, 7/16" HEX, thread M12 x 1	
Anti-static version	Yes (< 10 ⁶ Ω)	
Tube wall thickness	0.079"	
Tube material	Zinc-plated steel, stainless steel	
Tube sleeving	PVC sleeve 0.079" Lagging 0.079"	

Design versions

50 W

Gear ratio	Max. conveying speed [fpm]	Min. conveying speed [fpm]	Rated torque [in-lbs]	Acceleration torque [in-lbs]	Continuous blocking torque [in-lbs]
9:1	474	23	5.5	13.9	13.9
13:1	328	18	8.0	20.2	20.2
18:1	236	12	11.2	28.0	28.0
21:1	202	10	13.0	32.7	32.7
30:1	141	6	18.8	47.2	47.2
42:1	102	6	26.1	65.4	65.4
49:1	86	6	30.5	76.3	76.3
78:1	55	2	44.8	115.0	115.0
108:1	39	2	62.5	115.0	115.0

Before the run-in, the values may differ up to ±20 %. After a run-in phase, the values vary only in the range of ±10 % for 95 % of all RollerDrive used.

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Dimensions

48V

RL = Reference length/ordering length
EL = Installation length, clear width between side profiles

20W

The minimum reference length depends on the gear box variant and the drive or the bearing assembly. A sufficient axial play is already taken into account, so that the actual clear width between side profiles is required. A hexagon hole with a size of at least 0.44" is recommended. If the RollerDrive is installed obliquely, the fastening hole must be designed larger accordingly.

35W

Note: This model is available in metric sizes only (millimeters) as shown below.

50W

PolyVee drive head with female thread

AI

BI

