

Flexible Encoder Couplings



Magnetic, Flexible Helical, and Flexible Disc options available; Shaft sizes from 6mm-12mm and 1/4"-5/8"

Available in a Variety of Styles!

- | Magnetic, flexible, and disc options available
- | Available in both metric and inch sizes
- | Electrical isolation available on certain models
 - | Perfect solution to pair with your encoder
- | Keeps your encoder running longer
 - | Easy and simple installation

ENCODER COUPLINGS

Avtron Encoders offers a wide range of different couplings to pair with your shafted encoder. Choose from magnetic, flexible helical, and flexible disc couplings depending on your need and application.

To pick the coupling you need, start by looking at your encoder model and application. Helical flexible couplings work best for light mill duty encoders with small amounts of misalignment. For more misalignment in light duty applications, shift to magnetic couplings. For harsher environments (even with large misalignment), look at our selection of flexible disc couplings to find the right product that you need. Then find the right size you need to mate with your encoder and motor. We offer couplings in both metric and inch sizes to fit any kind of shaft.

Couplings are the perfect way to help protect the life of your encoder. Shaft run-out, or "wobble" can cause excessive wear and tear on the bearings in your encoder, which can destroy the encoder and cause costly downtime for your business. Our couplings help to protect from shaft run-out by absorbing the excessive loads and forces that it causes.

Don't let shaft run-out destroy your encoder investment, order a coupling today!

OUTLINE DRAWING

MORE ENCODER COUPLINGS ADVANTAGES

- Protects encoder bearings from excessive torque loads caused by run-out

ENCODER COUPLINGS SPECIFICATIONS

Magnetic Couplings

Weight:

03 Models (Coupling Half): 0.22 Lbs. (0.10 Kg)

06 Models (Coupling Half): 0.32 Lbs. (0.10 Kg)

Keyway: Only available on 11 mm and 12 mm

Flexible Helical Couplings

Material: 2024-T3.51 Aluminum w/ MIL A8625F Type II Black anodize

Isolator Insert: G10 glass filled phenolic

Clamp Screws:

Screw Size: 6-32

Torque: 34 in.lbs.

Screw Type: 120° apart; hex socket steel/black oxide finish

Flexible Disc Couplings

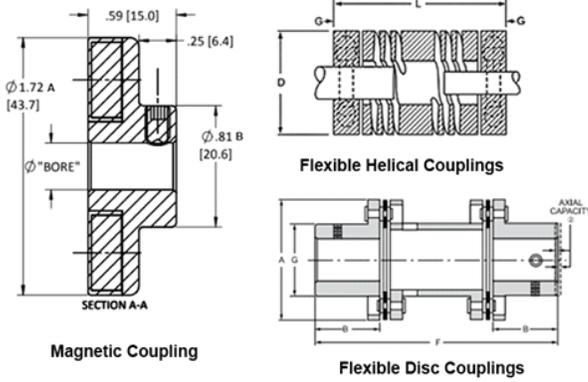
Hub and Center Material: Anodized Aluminum

Rivet and Washer Material: Brass

Disc Material: Stainless Steel

Screw Type: 18-8 Stainless Steel

Max Temp.: 250° F (120° C)



Check out our website for more detailed specifications, drawings, and installation instructions. www.avtronencoders.com

SELECTION GUIDE

Magnetic Couplings											
Model	Bore	Nominal Torque (in.lbs)	Max Torque (in.lbs)	Max Speed (RPM)	STD Air Gap	Set Screw	Dimensions		Max Misalignment		Encoder Style (Works with)
							A	B	Angular	Parallel	
426558-03-0236	6mm	4	5	26,000	.188"	M4-0.7 x 6mm	1.72"	.81"	3°	.25"	Light Mill Duty (AV4, AV6, AV20, AV25)
426558-03-0250	1/4"	4	5	26,000	.188"	#8-32 x 1/4	1.72"	.81"	3°	.25"	
426558-03-0375	3/8"	4	5	26,000	.188"	#8-32 x 1/4	1.72"	.81"	3°	.25"	
426558-03-0394	10mm	4	5	26,000	.188"	M4-0.7 x 6mm	1.72"	.81"	3°	.25"	
426558-06-0433	11mm	6	8	23,000	.188"	M5-0.8 x 8mm	1.98"	1.12"	3°	.25"	
426558-06-0472	12mm	6	8	23,000	.188"	M5-0.8 x 8mm	1.98"	1.12"	3°	.25"	

1 - Magnetic disc couplings are sold as halves

Flexible Couplings										
Model	1st Bore	2nd Bore	Dimensions			Max Misalignment			Encoder Style (Works with)	
			D - Dia.	L - Len.	G - Grip	Angular	Parallel	Axial		
426821	1/4"	1/4"	0.995"	.200"	7°	0.03"	±.020	34	Light Mill Duty (AV4, AV6, AV20, AV25)	
426820	3/8"	3/8"	0.995"	.200"	7°	0.03"	±.020	34		

Disc Couplings											
Model	1st Bore	2nd Bore	Dimensions				Max Torque (in.lbs)	Max Misalignment			Encoder Style (Works with)
			A	B	F	G		Angular	Parallel	Axial	
Two Hub Design											
426307	5/8"	5/8"	1.750"	0.938"	3.563"	1.063"	75	1°	.028"	±.031	Severe Mill Duty (AV485)
426342	5/8"	5/8"	2.250"	1.063"	4.000"	1.375"	300	.67°	.028"	±.031	
426278	5/8"	5/8"	2.500"	1.188"	5.000"	1.625"	440	.67°	.028"	±.031	
One Hub Design											
426411	5/8"	5/8"	2.500"	1.188"	3.500"	1.625"	440	.67°	.028"	±.031	

2 - Torque ratings are based on smooth drives with little torque fluctuations. Reduce ratings to 1/3 of the value shown for more severe applications

3 - Refer to our labeled outline drawing for more dimension information



Nidec Industrial Solutions
243 Tuxedo Avenue - Cleveland, Ohio 44131

encoderhelpdesk@nidec-industrial.com
+1 216-642-1230 - www.avtronencoders.com



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All dimensions approximate.