

# 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

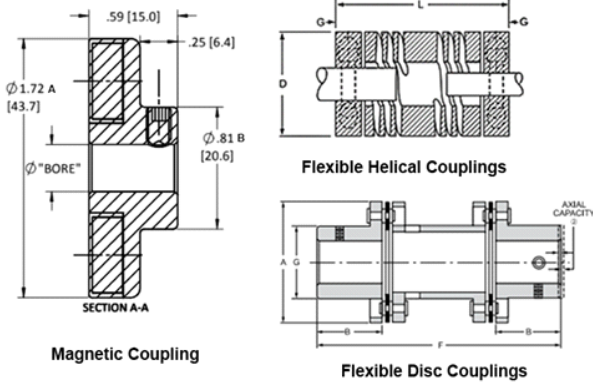
Hub and Center Material: Anodized Aluminum

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](http://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												



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All dimensions approximate.