



Dynaline Flexible Shaft Couplings



 **Guardian**[®]
Couplings

An Altra Industrial Motion Company

Why Choose Guardian?

For more than 70 years, Guardian has been designing and manufacturing world-class couplings and other power transmission components. Utilizing advanced manufacturing technologies and processes, Guardian provides highly-reliable coupling and component solutions to meet the most challenging industrial application requirements.

Guardian provides a wide range of standard and custom products including flywheel couplings, hydraulic pump mounts, bearing supported stub shafts, flexible shaft-to-shaft couplings, motion control couplings as well as compression pipe couplings.

Durable Guardian products are utilized in key industries including mobile hydraulics, farm & ag, tree care, concrete, food & beverage, material handling, automation, power generation, and oil & gas on applications such as skid steers, aerial lifts, harvesters, wood chippers, concrete pumps, dewatering pumps, baggage handlers, conveyors, robotics, compressors, and generator sets.

DYNALINE FLEXIBLE SHAFT COUPLINGS

Available in 4 sizes, the Dynaline is a single piece rubber-in-shear coupling. These couplings are used in sub-fractional thru 3HP applications, with torque ratings up to 54 IN-LBS. End fittings are made from zinc die castings, and are crimped to the rubber sleeve. Bore sizes up to 3/4" (19mm). The coupling length can be varied to suit many applications.



FEATURES & ADVANTAGES

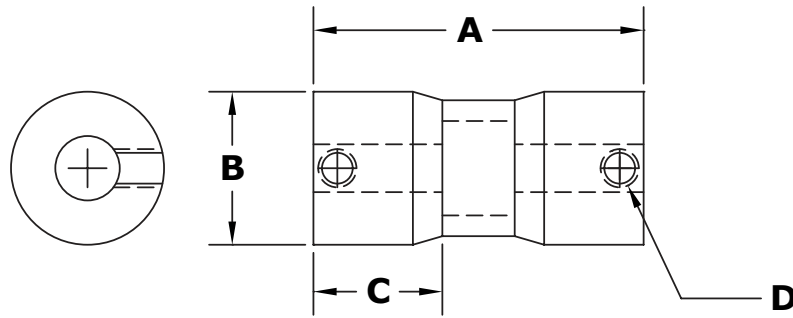
- One-piece construction - No assembly, no wearing surfaces, easier installation.
- Corrosion-resistant end fittings are crimped to a neoprene sleeve to provide a maintenance free and longer life in difficult environments.
- Added length provides maximum angular and parallel misalignment. No need to align driver to driven components.
- Length to customer requirements.
- Neoprene sleeve provides a vibration free coupling which absorbs the shock of start-stop applications and peak overloads.
- Special designs or modifications engineered for the O.E.M. application



DIMENSIONS

TO ORDER:

Specify overall length (A), both bore sizes (see below) and keyways if required.



Inches

Bore Range	Keyseat
3/8" to 1/2"	1/8" x 1/16"
5/8" to 7/8"	3/16" x 3/32"

Millimeters

Bore Range	Keyseat
6-7-8 mm	2 mm
9-10 mm	3 mm
11-12 mm	4 mm
13 thru 17 mm	5 mm
18 thru 22 mm	6 mm

Coupling Torque Ratings

Series Number	HP @ 3450 RPM	HP @ 1750 RPM	Nominal Torque in. lbs.	Standard Length	Motor Frame Size	Maximum Bore Size
1D	1/2	1/3	12	2-1/4"	48	1/2"
2D	1	1/2	18	2-1/2"	48	1/2"
3D	1-1/2	3/4	27	3"	56	5/8"
4D	3	1-1/2	54	3"	56 w/ Key	3/4"

Coupling Dimensions

Size	"A" Length		Length		B Diameter		C End Fitting		D Set Screws
	Minimum		Maximum						
1D	1-5/8"	(40 mm)	6"	(150 mm)	1	(25 mm)	11/16"	(18 mm)	1/4-20
2D	2-7/32"	(56 mm)	10"	(250 mm)	1-3/16"	(30 mm)	1"	(25 mm)	5/16-18
3D	2"	(50 mm)	10"	(250 mm)	1-9/32"	(33 mm)	1"	(25 mm)	5/16-18
4D	2-3/8"	(60 mm)	10"	(250 mm)	1-7/16"	(37 mm)	1-1/4"	(32 mm)	5/16-18

Length to customer's requirements, consult factory for high service factor ratings and effect of longer length. Metric set screws available.

Bore Specifications

Std. Finished Bores	1D	2D	3D	4D
Inches	1/4", 5/16", 3/8", 7/16", 1/2"	1/4", 5/16", 3/8", 7/16", 1/2"	5/16", 3/8", 7/16", 1/2", 9/16", 5/8"	7/16", 1/2", 9/16", 5/8", 3/4"
Metric	8-10-12 mm	8-10-12 mm	10-12-14-16 mm	14-16-18-20 mm
Max. Bore With Keyway	3/8" (10 mm)	3/8" (10 mm)	1/2" (12 mm)	5/8" (16 mm)

Belted Drives and Sheaves

TB Wood's

Belted Drives
Chambersburg, PA - USA
1-888-829-6637 – Press #5
For application assistance:
1-888-829-6637 – Press #7

Couplings

Ameridrives Couplings

Mill Spindles, Ameriflex, Ameridisc
Erie, PA - USA
1-814-480-5000
Gear Couplings
San Marcos, TX - USA
1-800-458-0887

Ameridrives Power Transmission

Universal Joints, Drive Shafts, Mill Gear Couplings
Green Bay, WI - USA
1-920-593-2444

Bibby Turboflex

Disc, Gear, Grid Couplings, Overload Clutches
Dewsbury, England
+44 (0) 1924 460801
Boksburg, South Africa
+27(0) 11 918 4270

Guardian Couplings

Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings
Michigan City, IN - USA
1-219-874-5248

Huco Dynatork

Precision Couplings and Air Motors
Hertford, England
+44 (0) 1992 501900
Chambersburg, PA - USA
1-888-829-6637

Couplings Cont.

Lamiflex Couplings

Flexible Couplings, Bearing Isolators, and Coupling Guards
Cotia, SP - Brasil
+55 (11) 4615-6300

TB Wood's

Elastomeric Couplings
Chambersburg, PA - USA
1-888-829-6637 – Press #5
For application assistance:
1-888-829-6637 – Press #7
General Purpose Disc Couplings
San Marcos, TX - USA
1-888-449-9439

Electromagnetic Clutches and Brakes

Inertia Dynamics

Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes
New Hartford, CT - USA
1-800-800-6445

Matrix International

Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes
Brechtin, Scotland
+44 (0) 1356 602000
New Hartford, CT - USA
1-800-825-6544

Warner Electric

Electromagnetic Clutches and Brakes
New Hartford, CT - USA
1-800-825-6544
For application assistance:
1-800-825-9050

Saint Barthélemy d'Anjou, France
+33 (0)2 41 21 24 24

Precision Electric Coils and Electromagnetic Clutches and Brakes

Columbia City, IN - USA
1-260-244-6183

Engineered Bearing Assemblies

Kilian Manufacturing

Engineered Bearing Assemblies
Syracuse, NY - USA
1-315-432-0700

Gearing

Bauer Gear Motor

Geared Motors
Esslingen, Germany
+49 (711) 3518-0
Somerset, NJ - USA
1-732-469-8770

Boston Gear

Enclosed and Open Gearing, Electrical and Mechanical P.T. Components
Charlotte, NC - USA
1-800-825-6544
For application assistance:
1-800-816-5608

Nuttall Gear and Delroyd Worm Gear

Worm Gear and Helical Speed Reducers
Niagara Falls, NY - USA
1-716-298-4100

Heavy Duty Clutches and Brakes

Industrial Clutch

Pneumatic and Oil Immersed Clutches and Brakes
Waukesha, WI - USA
1-262-547-3357

Svendborg Brakes

Industrial Brakes and Brake Systems
Vejstrup, Denmark
+45 63 255 255

Twiflex Limited

Caliper Brakes and Thrusters
Wichita Falls, TX - USA
1-844-723-3483
Twickenham, England
+44 (0) 20 8894 1161

Heavy Duty Clutches and Brakes Cont.

Wichita Clutch

Pneumatic Clutches and Brakes
Wichita Falls, TX - USA
1-800-964-3262
Bedford, England
+44 (0) 1234 350311

Linear Products

Warner Linear

Linear Actuators
Belvidere, IL - USA
1-800-825-6544
For application assistance:
1-800-825-9050
Saint Barthélemy d'Anjou, France
+33 (0)2 41 21 24 24

Overrunning Clutches

Formsprag Clutch

Overrunning Clutches and Holdbacks
Warren, MI - USA
1-800-348-0881 – Press #1
For application assistance:
1-800-348-0881 – Press #2

Marland Clutch

Roller Ramp and Sprag Type Overrunning Clutches and Backstops
South Beloit, IL - USA
1-800-216-3515

Stieber Clutch

Overrunning Clutches and Holdbacks
Heidelberg, Germany
+49 (0) 6221-30470

For information concerning our sales offices in Asia Pacific check our website www.altramotion.com.cn

While Guardian Industries makes every effort to ensure the accuracy of the information provided, we make no warranty as to the accuracy or completeness of said information.



www.guardiancouplings.com

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