

Care & Maintenance

Flexible shafts require a minimum of maintenance. After every 200 hours of use, the core should be re-lubricated as the screw action of the winding process shifts the lubricant to one end of the casing.

Remove the core from the casing and clean in a solvent. Remove all excess solvent and re-lubricate with a quality petroleum-based grease with a temperature range of -40° to +250° F.

CustomFlex

If Fairport's standard solution doesn't meet your requirements, we can offer Customflex; a bespoke design tailored to your exact needs. Our seamless collaboration process, from concept development, prototypes, rigorous testing to final production, ensures every detail is executed to the highest standards. Our experienced designers work alongside you at every step to deliver a fully customised solution.

Built in Quality

At FDT we understand how critical the performance of our flexible shafts is to the integrity of your equipment and to the safety and productivity of you and/or your customers. Our highly skilled team has access to industry-leading quality software and tools, best practice processes, and field and lab testing capabilities to make sure you receive the best flexible shafts available today.

Solutions for Your Industry

FDT serves customers worldwide in a range of industrial sectors including:

- *Aerospace*
- *Medical*
- *Agriculture*
- *Military*
- *Automotive*
- *Power Generation*
- *Construction*
- *Valve Actuation*
- *Marine*
- *Machine Building*


TorQflex

Flexible Shaft Standard Solutions

Ideally suited for transmitting power over, under, around, and even through obstacles significantly simplifying your transmission application.



Reduce design time, and lower your assembly and maintenance costs without the use of exposed universal joints, gears, pulleys, or couplings. Consider FDT Standard Solutions early in your design process and benefit from TorqFlex to deliver a flexible design solution.

Our flexible shafts can easily withstand the shock of sudden load changes due to starting and stopping. They will transmit power to a driven element that must move during operation, around corners, or into machines allowing for a high degree of freedom in mounting drive units such as electric motors.

Flexible Drive & Tool (FDT) flexible shafts can solve your power transmission problems...today!

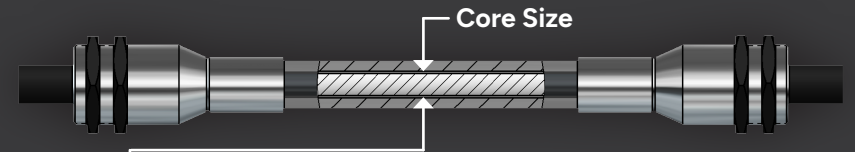
Examples of common power drive problems are:

- Freedom from design constraints:** A diagram showing a flexible shaft connecting two shafts at an angle, with a red arrow indicating the direction of movement.
- Misalignment problems solved:** A diagram showing a flexible shaft connecting two shafts that are not perfectly aligned, with dashed lines indicating the misalignment.
- Control or power moving components:** A diagram showing a flexible shaft connecting a motor to a component that can move vertically and horizontally, indicated by arrows.
- Angle drive & universal joint alternative:** A diagram showing a flexible shaft connecting two shafts at an angle, with a red arrow indicating the direction of rotation.
- Control in comfort & at a safe distance:** A diagram showing a flexible shaft connecting a motor to a component, with a red checkmark and a double-headed arrow indicating the distance.
- Isolate power drives from vibrations:** A diagram showing a flexible shaft connecting a motor to a component, with a red checkmark and a double-headed arrow indicating the distance.
- Have the power without the weight:** A diagram showing a flexible shaft connecting a motor to a component, with a red checkmark and a double-headed arrow indicating the distance.
- Mechanical remote monitoring:** A diagram showing a flexible shaft connecting a motor to a component, with a red checkmark and a double-headed arrow indicating the distance.

Standard Ball Bearing Units

FDT TorqFlex standard ball flexible shaft units are available in a range of sizes. Each with bored couplings and set screws for fast and easy installation to a driven spindle. All units are fully enclosed with a suitable casing and lubricated during assembly.

For unique applications, stringent requirements, or high volume quantities, FDT engineers are always available to design a custom flexible shaft solution to meet your exact needs.



Direction of rotation	Core Size (mm)	Min. Operating Radius (mm)	RPM Max	Max. Torque (Nm) v Bend Radius (mm)				
				150	200	300	600	1000
C & CC	6	125	7000	0.80	1.35	2.25		
	8	150	5500	2.70	3.60	4.00		
	12	250	3500			10.00	14.00	15.00
B	16	300	2800			20.00	40.00	50.00
	6	125	7000	5.00	7.00	9.00		
	8	200	5500	7.00	10.00	15.00	18.50	
	12	250	3500			32.00	55.00	56.00
	16	250	2800			38.00	65.00	72.00

Best Direction of Operation for Uni-Direction Applications
Clockwise (C) & Counter Clockwise (CC)

Using a sample of the core, observe the lay of the wires to determine the best direction of rotation.

Hold the core vertically and observe the wires. If they slant down to the right, you have a right-hand core (C). If they slant down to the left, you have a left-hand core (CC).

Bi-Directional Shaft (B) are designed to maximise operation in both directions. These are very useful when rotational control is important.

