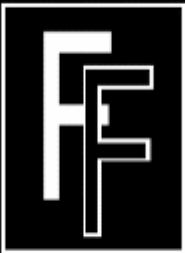




Design for Advantage

Controlflex® is the ideal coupling for encoders. Controlflex® is a compact, electrically-insulating, precise shaft coupling with excellent kinematic properties. Modular construction makes it possible to realize all possible bore combinations from stock.



Francis and Francis Limited

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Controlflex®

Controlflex® was designed especially for the requirements of shaft encoders. The patented middle element transmits torque at constant angular velocity and accommodates all kinds of misalignment with very low restoring forces. This is essential for encoders due to their small and sensitive bearings. Controlflex® is easy to install thanks to clamp hubs. Controlflex builds short and dampens vibrations.



Patented Delrin®* middle element

The middle element is molded from Delrin® yielding vibration dampening and electrical insulation.

Compact design

Misalignment is compensated in-plane in a remarkably small envelope

Designed especially for encoders

Controlflex® offers very low restoring forces together with large misalignment capacity

Modular construction

The backlash-free three-piece design ensures all bore combination from stock

Balanced design

All clamp hubs are balanced to make the suitable for high rpm applications without side loads

Anodized hubs

The aluminum hubs are anodized and provide excellent protection against corrosion.

Standard

The optimal choice for all standard encoders and tachos. The Standard series offers a balanced design of precision with very low restoring forces and it exactly meets the requirements of today's encoders.

Very low restoring forces

between 3 N and 4.4 N for 0.2 mm radial misalignment compensation

Maximum speed

Up to 25,000 rpm

Maximum radial shaft misalignment

Up to 1 mm

Maximum axial shaft misalignment

Up to 0.7 mm

Maximum angular shaft misalignment

Up to 1.5°

*Delrin is a registered trademark of DuPont



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Impuls Plus

The Controlflex® series for encoders with maximum accuracy. It is predestined for encoders using a graduated disk with increased line counts or with fine measuring signals.

Very low restoring forces between 6 N and 8.8 N for 0.2 mm radial misalignment compensation

Maximum speed
Up to 25,000 rpm

Maximum radial shaft misalignment
Up to 1 mm

Maximum axial shaft misalignment Up to 0.7 mm

Maximum angular shaft misalignment
Up to 1°

Compact

The very short design, especially designed for encoder applications where the coupling is integrated into a very tight axial space. As an example where the coupling is mounted in a fixed housing.

Very low restoring forces between 3.4 N and 4.4 N for 0.2 mm radial misalignment compensation

Maximum speed
Up to 22,000 rpm

Maximum radial shaft misalignment
Up to 1 mm

Maximum axial shaft misalignment Up to 0.7 mm

Maximum angular shaft misalignment
Up to 1.5°

Industry

The Controlflex® series, designed for robust industrial encoders with larger shaft diameters up to 40 mm.

Very low restoring forces between 6.8 N and 10 N for 0.2 mm radial misalignment compensation

Maximum speed
Up to 10,000 rpm

Maximum radial shaft misalignment
Up to 2 mm

Maximum axial shaft misalignment Up to 1.5 mm

Maximum angular shaft misalignment
Up to 1.5°



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SCHMIDT-KUPPLUNG GmbH has always gone that little bit further to meet special customer needs. Customer-specific development still plays a central role for us. Our competent engineers and technicians are specialists in providing application driven advice.

Product overview

Our comprehensive product range includes precision couplings for many different applications. Please contact us if you would like assistance selecting a coupling.



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