



Design for Advantage

Semiflex® is a high-precision coupling in a compact design and with no restoring forces. Semiflex® offers large radial misalignment capacity in a very small envelope. Semiflex® is, by design, free of restoring forces. For highly dynamic applications, Semiflex® is also available in an aluminium series.



Francis and Francis Limited

The Stables Works, Station Road, Kenley, Surrey, CR8 5JA.

Phone: 020-8668-9792/3

Fax: 020-8668-9793

E-Mail: sales@powertransmissions.co.uk

[Http://www.powertransmissions.co.uk](http://www.powertransmissions.co.uk)

Semiflex®

Semiflex® is a torsionally-stiff, precise shaft coupling for transmitting torque from one shaft to another, in those cases where shaft alignment can not be guaranteed due to manufacturing tolerances, assembly procedures, wear, or operational specifics. All types of shaft misalignment are accommodated via the proven Semiflex® design. The angular velocity of the connected shafts remains totally synchronized, regardless of the shaft misalignment. No restoring forces are induced.



Compact

All Semiflex® series require very little axial space. Misalignment capacity is not a function of coupling length.

Modular

A great variety of shaft-hub connections can be independently combined together with a wide range of possible bore sizes

Application driven

A great variety of form-fit and press-fit shaft-hub connections can be chosen to optimize application performance and easy installation.

No restoring forces

Shaft misalignment is compensated via pivoting parallel movement. No restoring forces are induced and shaft bearings are not exposed to radial stress.

Proven technology

For 30 years Semiflex® has been successfully used in diverse applications all over the world.

All metal

The all-metal Semiflex® is torsionally very stiff and suitable for use in demanding drive applications in all mechanical equipment.

Standard F series

A symbiosis of performance, compact design and generous misalignment capacity.

Torque (T_{KN})

44 Nm to 7,040 Nm

Outer diameter

50 mm to 300 mm

Locking-assembly bore sizes

up to 125 mm

Clamp hub bore sizes

up to 70 mm

Split-clamp hub bore sizes

up to 45 mm

Standard hub bore sizes

up to 100 mm

Internal hub bore sizes

up to 120 mm



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E-Mail: sales@powertransmission.co.uk

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Compact Plus C series

Compact Plus: for extremely axially limited space. It offers up to 25% shorter length in comparison with the Standard series and no reduction in performance or misalignment capacity.

Torque (T_{KN})

69 Nm to 7,040 Nm

Outer diameter

70 mm to 300 mm

Locking-assembly bore sizes

up to 125 mm

Clamp hub bore sizes

up to 70 mm

Split-clamp hub bore sizes

up to 45 mm

Standard hub bore sizes

up to 100 mm

Internal hub bore sizes

up to 120 mm

Dynamic D series

The light-weight aluminium Semiflex[®] series with low moment of inertia. The series for highly dynamic applications.

Torque (T_{KN})

40 Nm to 180 Nm

Outer diameter

56 mm to 74,5 mm

Clamp hub bore sizes

up to 40 mm



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Semiflex®

Semiflex®
Clamp hub version



Semiflex®
Split-clamp hub version



Semiflex®
Locking-assembly version



Semiflex®
Standard hub version



Semiflex®
Internal hub version



Semiflex®
Flange-mounting version



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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