

PRODUCTS

Semiflex®



The compact precision coupling with high performance

Schmidt-Kupplung®



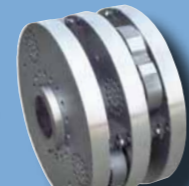
The precision coupling for an extreme offset

Controlflex®



The ideal coupling for shaft encoders

Omniflex®



The coupling for maximum torque

Loewe® GK

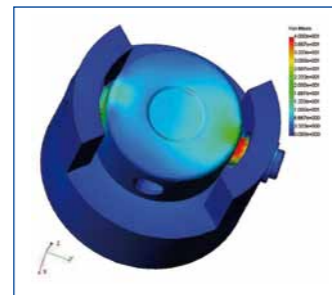


The coupling with high axial stiffness



Sector-specific designs

Our know-how in drive technology is based on 45 years of experience. We understand the applications in the most diverse sectors and provide specially tailored coupling designs.



Application-specific solutions

We provide coupling solutions adapted precisely to application-specific requirements, with special emphasis on customer proximity and orientation combined with technical creativity.

We support the user in each phase of conception and implementation of a project and give priority to optimisation of the individual drive train.

Beside expert advice – also gladly provided on location – we offer additional services such as FEM analysis, coordination of prototypes and preparation of rapid prototyping models, as well as confirmation of the calculated design data on modern test benches.



The Omniflex® is the all-rounder – it can deal with extremely high torques and the harshest conditions of use. It reacts majestically with precision, robustness and universal ease of balance – all without demanding too much space: quite a universal talent.



Maximum torque transmission

The robust couplings are configured for maximum torque transmission. The performance spectrum at nominal torque levels ranges from 3 kNm to 6400 kNm.

High shaft misalignment capacity

In conjunction with special spherical bearings, the coupling system offers high universal shaft misalignment



compensation without restoring forces. Depending on the size, the precision couplings offer an angular misalignment of max. 3°, a radial shaft misalignment of max. +/-200 mm and an axial equalisation of max. +/-50 mm.

Most compact dimensions

The coupling design of three discs and two sets of links requires a very little space.

Precise

The couplings offer a high level of torsional stiffness and work with high precision. Additional robustness of the couplings make them predestined for the toughest cycle operations and for applications with considerable shock loads.

Configured to suit the application

The couplings are configured for the specific application. Exact coupling sizes and performance data are defined in accordance with the user's specifications.

The choice of bearing pair is based on a wide variety of requirements profiles and is done to suit the application concerned.



Compact, torsionally-stiff, precise and with high universal misalignment capacity: the Omniflex®

Fields of application

- Industrial gearing
- Large-scale gearboxes
- Press drives
- Forge rollers
- Gearbox dynamometers
- Process technology
- Conveyor systems
- Mixers and stirrers, and many more besides



nominal torque [kNm]	maximum torque [kNm]	performances				dimensions		
		angular [°]	radial +/- [mm]	axial +/- [mm]	speed [1/min.]	Ø [mm]	length [mm]	mass [kg]
3	7	3	10	4	500	220	100	20
10	23	3	20	6	330	320	150	70
20	45	3	25	8	250	410	190	130
50	113	3	35	10	170	550	260	330
100	225	2	50	15	130	700	320	670
200	450	2	60	20	90	880	410	1330
500	1125	1,5	100	30	70	1190	560	3330
1000	2250	1,5	100	40	50	1500	700	6670
6400	14400	1,5	200	50	20	2780	1300	42670

The coupling sizes shown are in part of couplings already manufactured and of performance classes at the planning stage. We will determine the exact design of the coupling with dimensions and performance data in consultation with the user according to the respective requirements profiles.

The displacement values are maximum values. In event of combined displacements, they must be coordinated to ensure that the total of actual displacements does not exceed 100%. If necessary, the speed must also be taken into consideration. Our application technicians will be pleased to advise you.