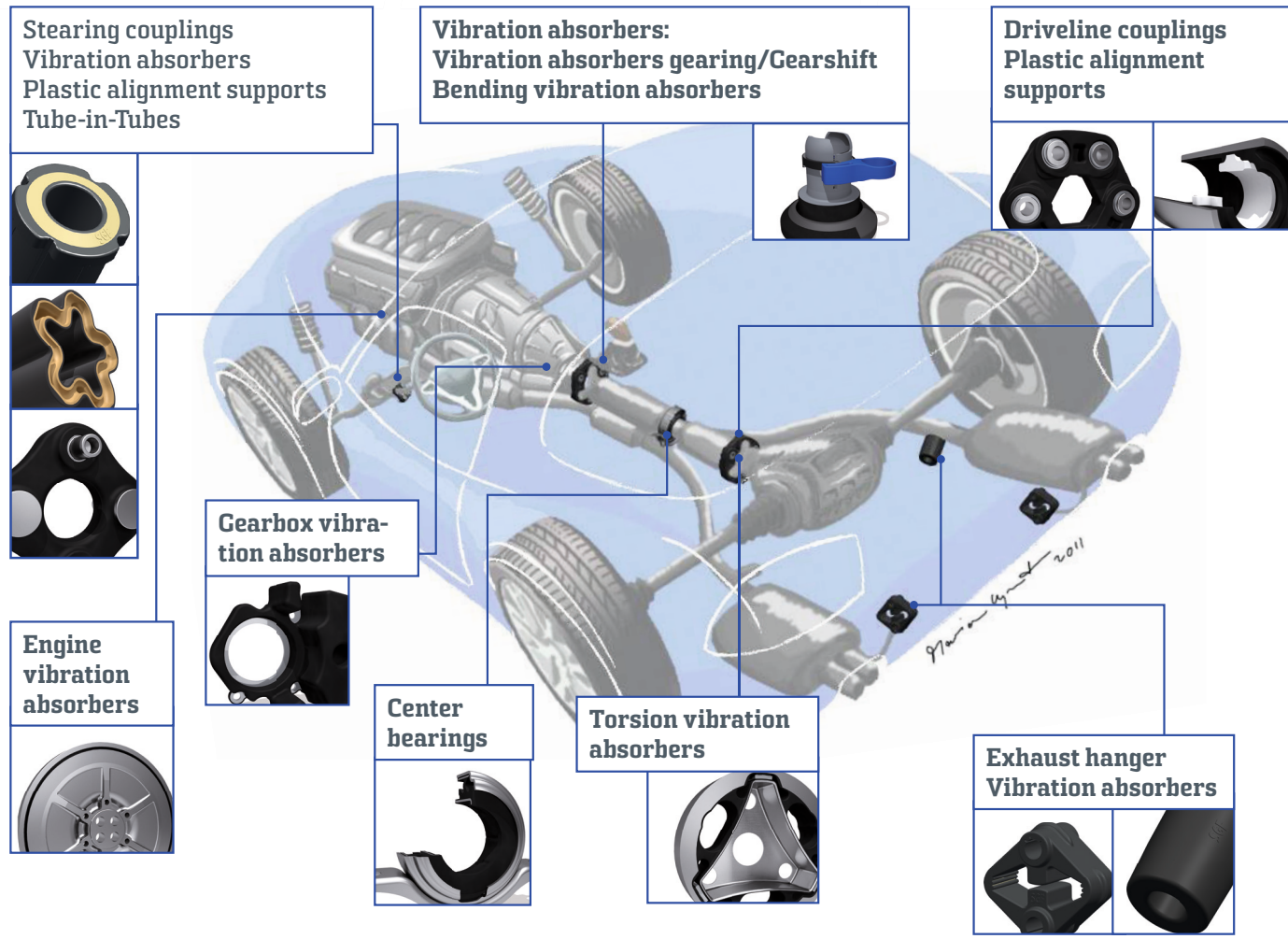


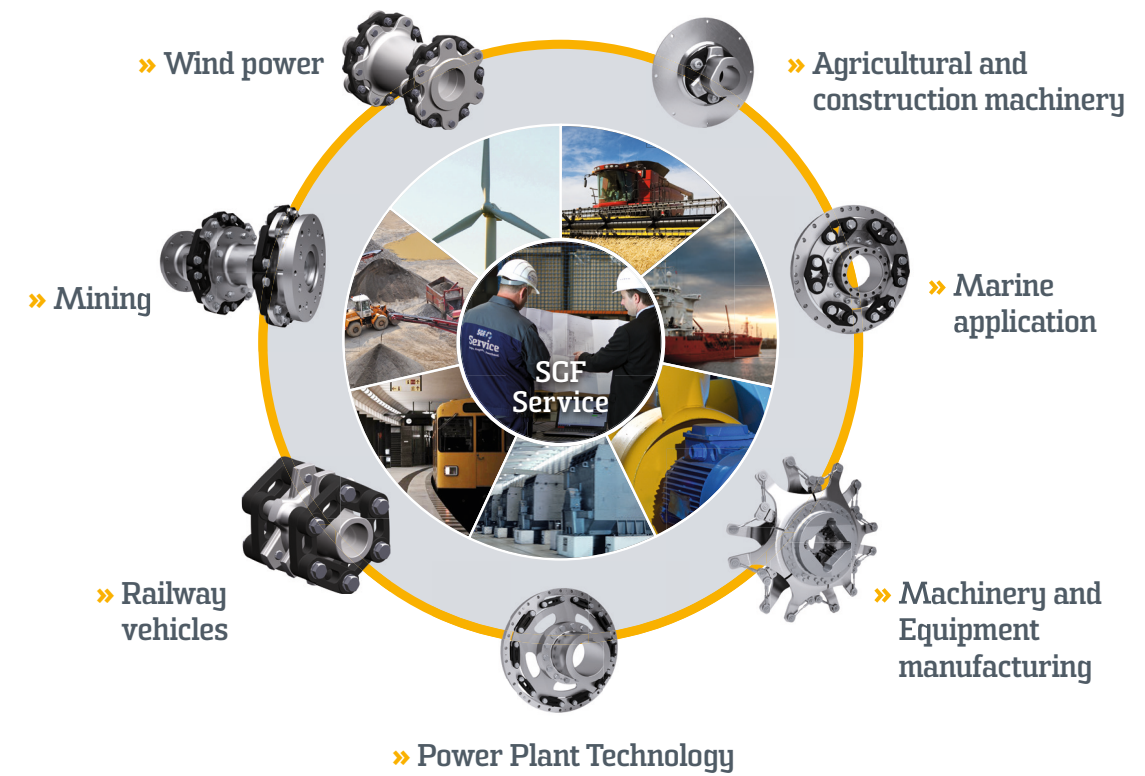
SGF PRODUCTS IN VEHICLES



ADVANTAGES

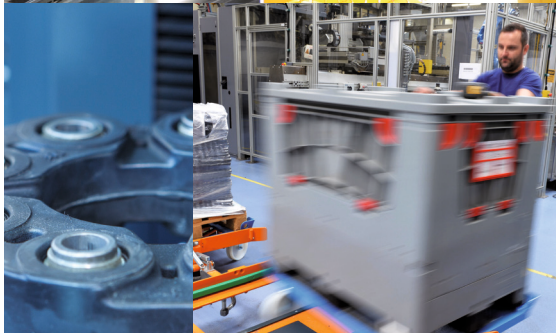
- » Excellent service life properties
- » Maintenance-free
- » Position-stable
- » Precise positioning
- » Resistant to extreme temperatures
- » Made in Germany

INDUSTRIAL APPLICATIONS OF SGF PRODUCTS



ADVANTAGES

- » Production of parts according to customer specifications
- » Adaptation of component properties while maintaining the same space requirements
- » Excellent service life properties
- » Maintenance-free
- » Competitively priced revision and overhaul
- » Support in all areas via SGF Service





SGF SERVICE

We make drives comfortable and reliable.

This principle applies absolutely for both our products and our customer service. SGF is the only supplier in the world that can service tension force based coupling systems independently of sector. Our customer service ensures the long life of your drive solutions.

» SGF Maintenance and Servicing

The SGF service team is your partner for the regular maintenance and servicing of SGF products. We keep a large number of specially adapted service options available for you.

» SGF Academy

The SGF academy regularly holds both basic and product-related training courses for our customers. The main areas of the training service are seminars on flexible discs, flexible couplings and tension force based systems.

» SGF Engineering/Tenpu® Lab

Together with you we implement your ideas for new products in the areas of vibration damping and power transmission in drive trains. Our team of developers has experience from more than 500 development projects and uses the latest development tools to make products out of your ideas.

» **SGF Online Shop**
<http://shop.sgf.de/en>



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 GmbH & Co. KG**
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More about SGF:



SGF CORE TECHNOLOGIES

Tenpu® fiber technology

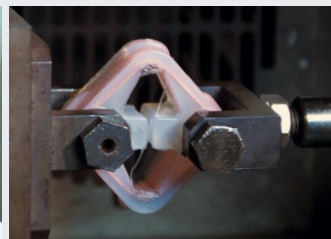
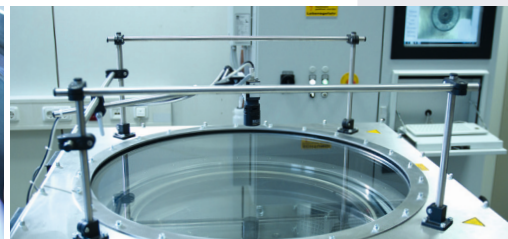
- » Tenpu® is able to absorb tensile forces with the same damping properties as elastomer.

Patented SGF slider technology:

- » makes it possible to tune torsional vibration absorbers to very low natural frequencies with very little disruptive imbalance.

SGF Centering with plastic inner bushes

- » does not require the use of any lubricant and keeps imbalances to a minimum.



CUSTOMERS

Industry

- » Daimler
- » Linde
- » Lindner
- » MAN
- » Netzsch
- » Same-Deutz-Fahr
- » Schenck Prozess
- » Wackerbauer
- » Fiat-Chrysler
- » Ford
- » GKN
- » GM
- » Hitachi Automotive
- » Hyundai/Kia
- » IFA Rotorion
- » Neapco
- » Tenneco

Automotive

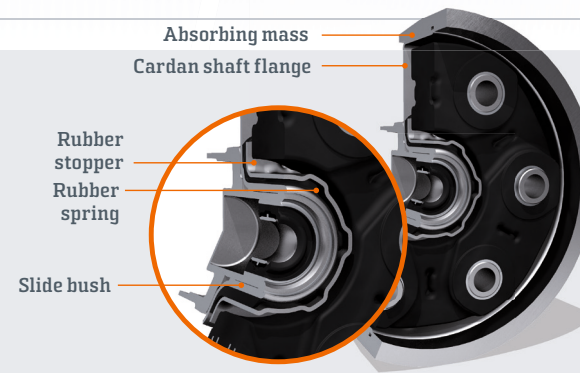
- » AAM
- » BMW
- » Boysen
- » ThyssenKrupp Presta
- » VW

SGF INNOVATIONS

TORSIONAL VIBRATION ABSORBERS

Benefits

- » Allows lower natural frequencies to be realized
- » Reduced imbalance thanks to radial guide
- » High radial stiffness possible
- » No wobbling motion due to slide bush on the flange
- » Very good service life properties at high excitation amplitudes (> 10 million load changes at excitation amplitudes > ± 1.0°)



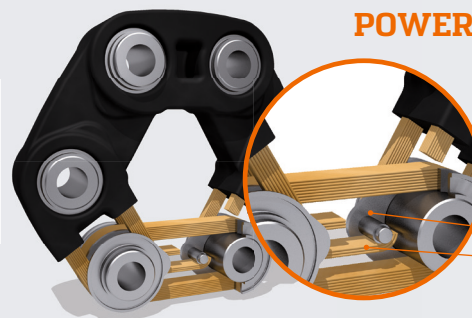
POWERLINE PLUS FLEXIBLE COUPLINGS

Benefits

- » Transmits approx. 20% higher torques
- » Increases component service life by approx. 100%
- » 1:1 replacement in vehicle possible
- » Expansion of the tuning range (NVH tuning)

This is made possible via:

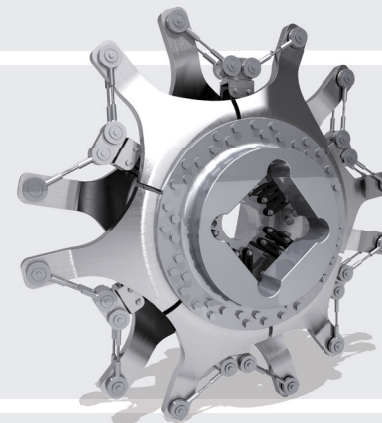
- » Torque transmission via modified flanged bushing with bolts
- » Additional cord bundles within the tension tracks



Y-COUPLING

Benefits

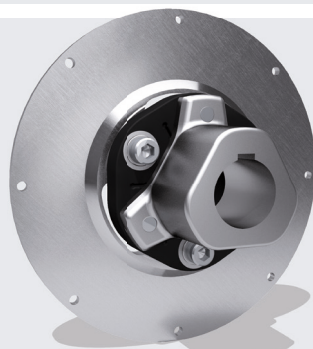
- » Compensation of very high radial displacement in combination with very low reaction forces
- » Operation without lubricants possible
- » Damps torque peaks in drive trains



FLEX COUPLING ASSEMBLY

Benefits

- » Suitable for large shaft diameters
- » Easy replacement of the flexible coupling without removing the metal parts possible
- » Pluggable connection possible
- » Maintenance-free



NUMBERS & FACTS

- » Company founded by Gerhard Zeidler and Hanns Willy Schmidt in 1946
- » SGF is a family-owned company
- » A total of 630 employees at 4 sites
- » 113 million euros turnover in 2015

PRODUCT GROUPS

- » Vibration absorbers
- » Drive shaft couplings
- » Link couplings
- » Alignment supports
- » Centre bearings
- » Flexible couplings for torque transmission
- » Flexible flange couplings
- » Tube-in-Tube
- » Exhaust hangers