



We make drive systems
comfortable and reliable.

Süddeutsche Gelenkscheibenfabrik GmbH & Co. KG

Company Presentation





Michael Weikert
President
Süddeutsche Gelenkscheibenfabrik GmbH & Co KG

"Customers value our expertise, innovation and experience."

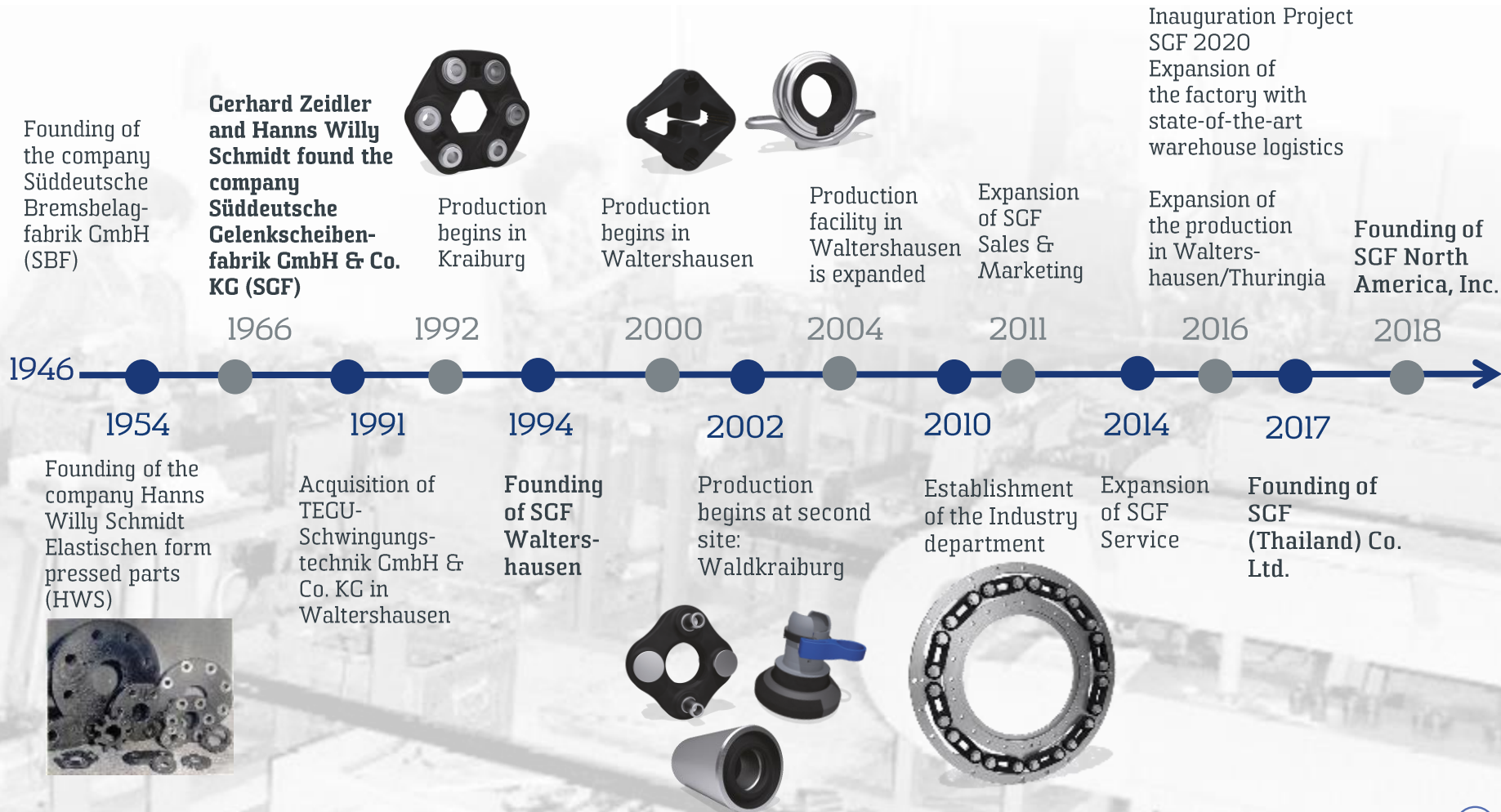
Overview

- » Figures / Dates / Facts
- » SCF Automotive
- » SCF Industry
- » Expertise
- » Certifications

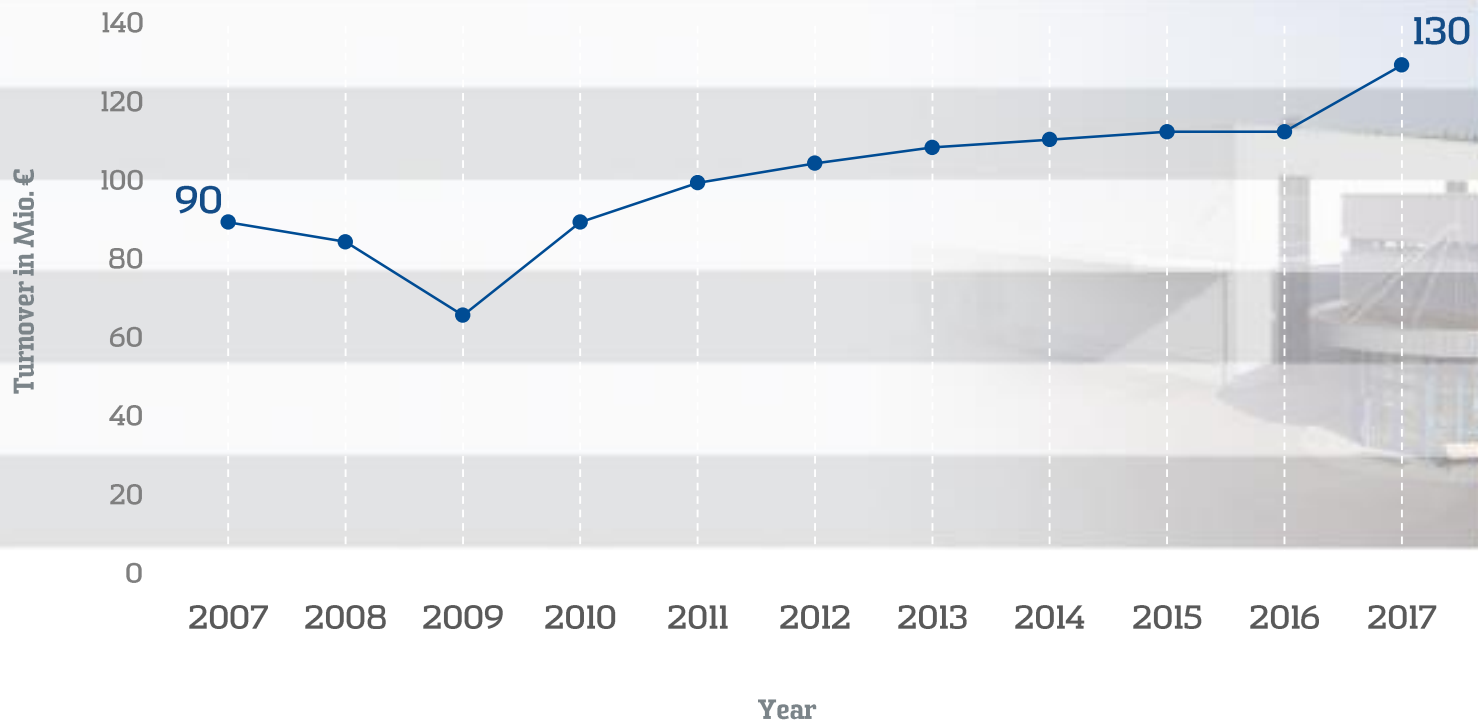
Figures / Dates / Facts

- » **SGF is a medium-sized family business**
- » **It was founded in 1946 by Gerhard Zeidler and Hanns Willy Schmidt**
- » **700 employees at 4 locations**
- » **130 million euros in sales in 2017**
- » **World leader in the field of drive shaft couplings and tension-based link coupling systems**

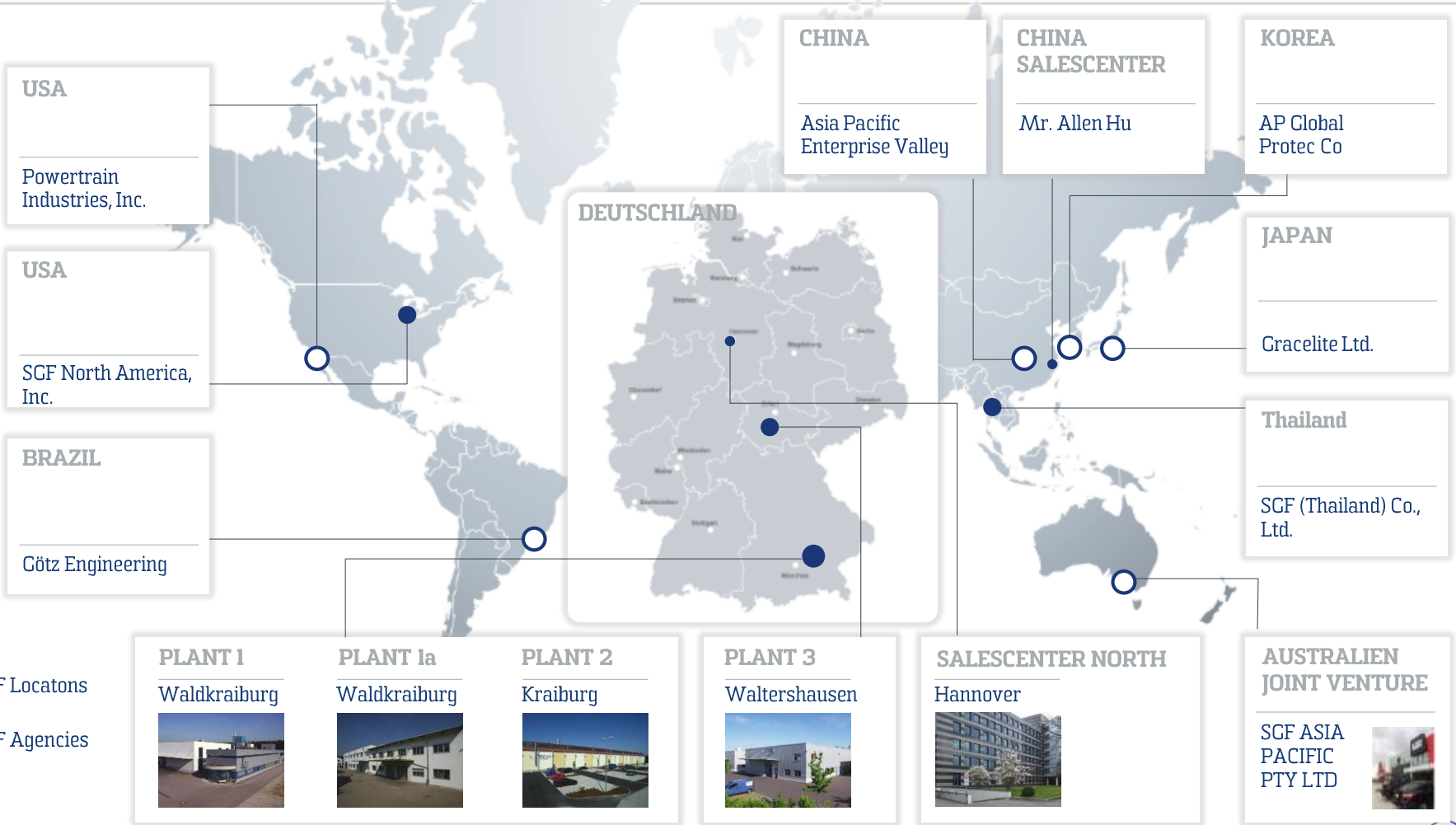
HISTORY



SALES DEVELOPMENT 2007–2017

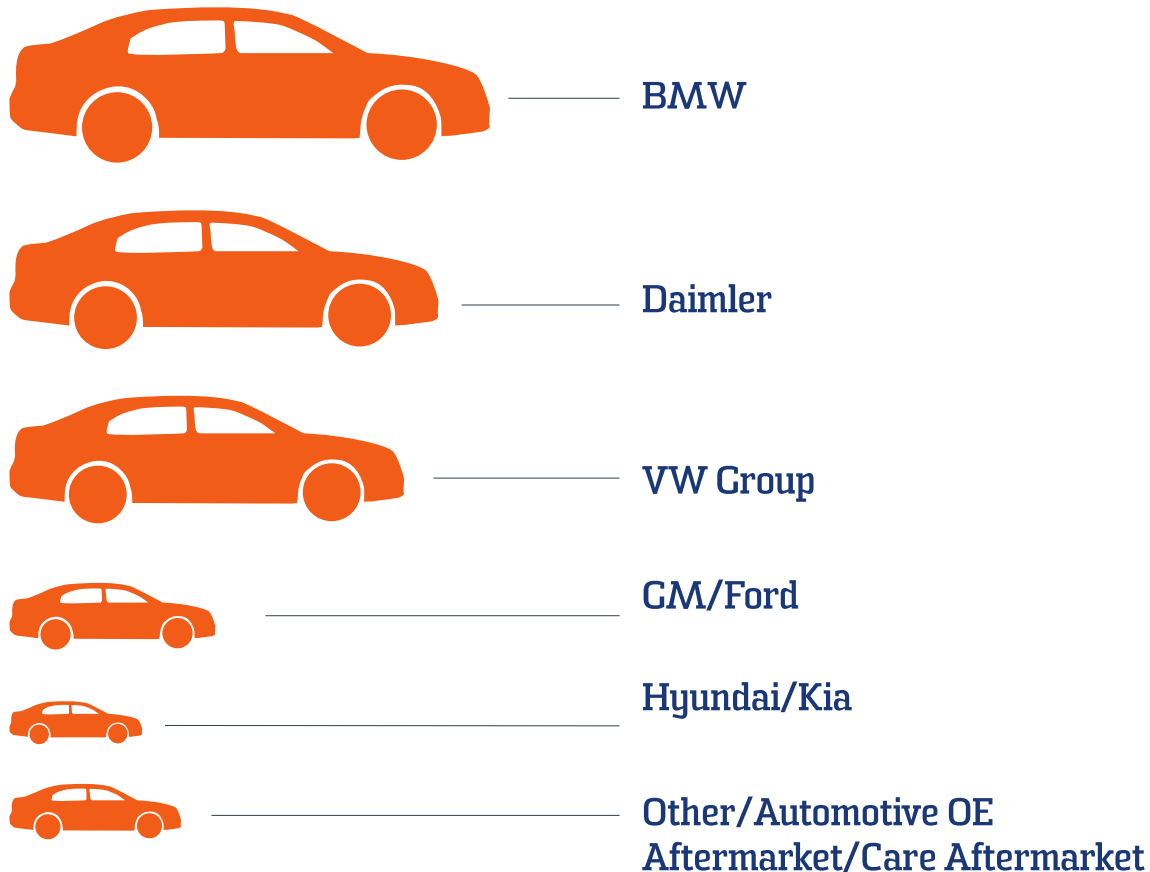


SGF LOCATIONS AND AGENCIES WORLDWIDE



- SGF Locations
- SGF Agencies

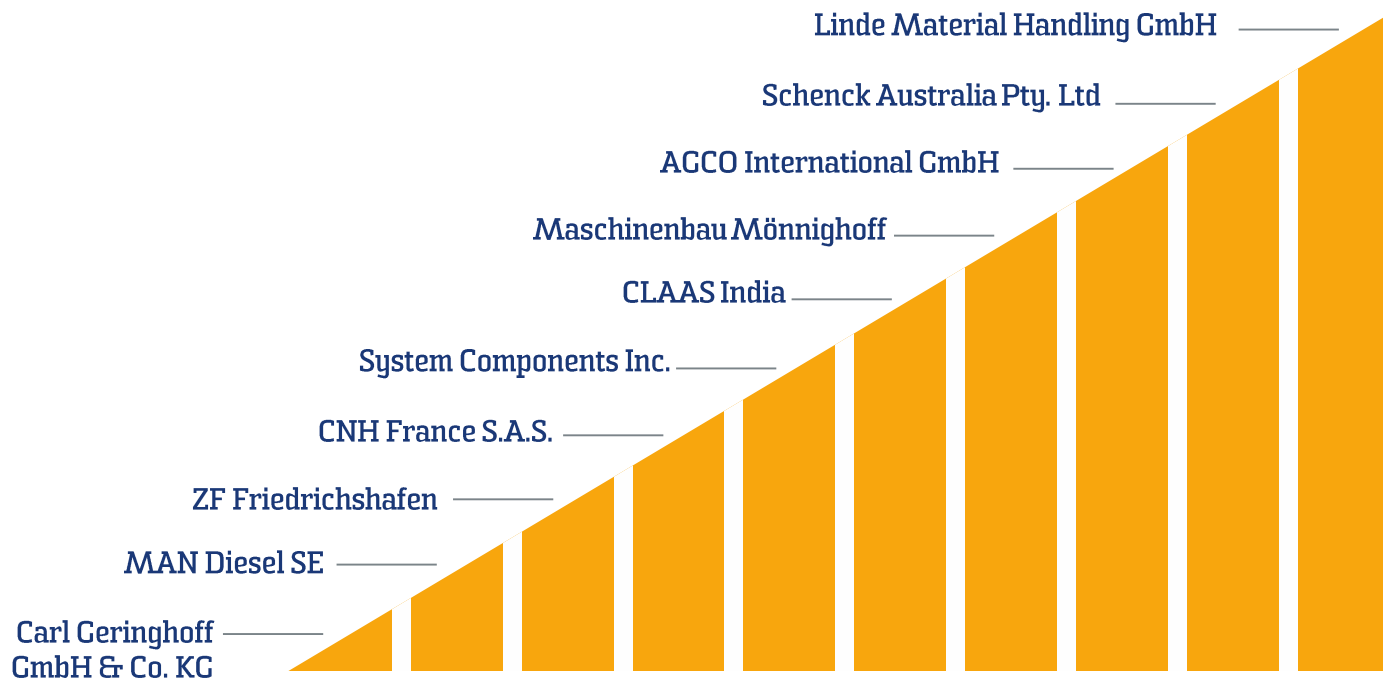
OVERVIEW OF AUTOMOTIVE CUSTOMERS



Overview of Automotive customers

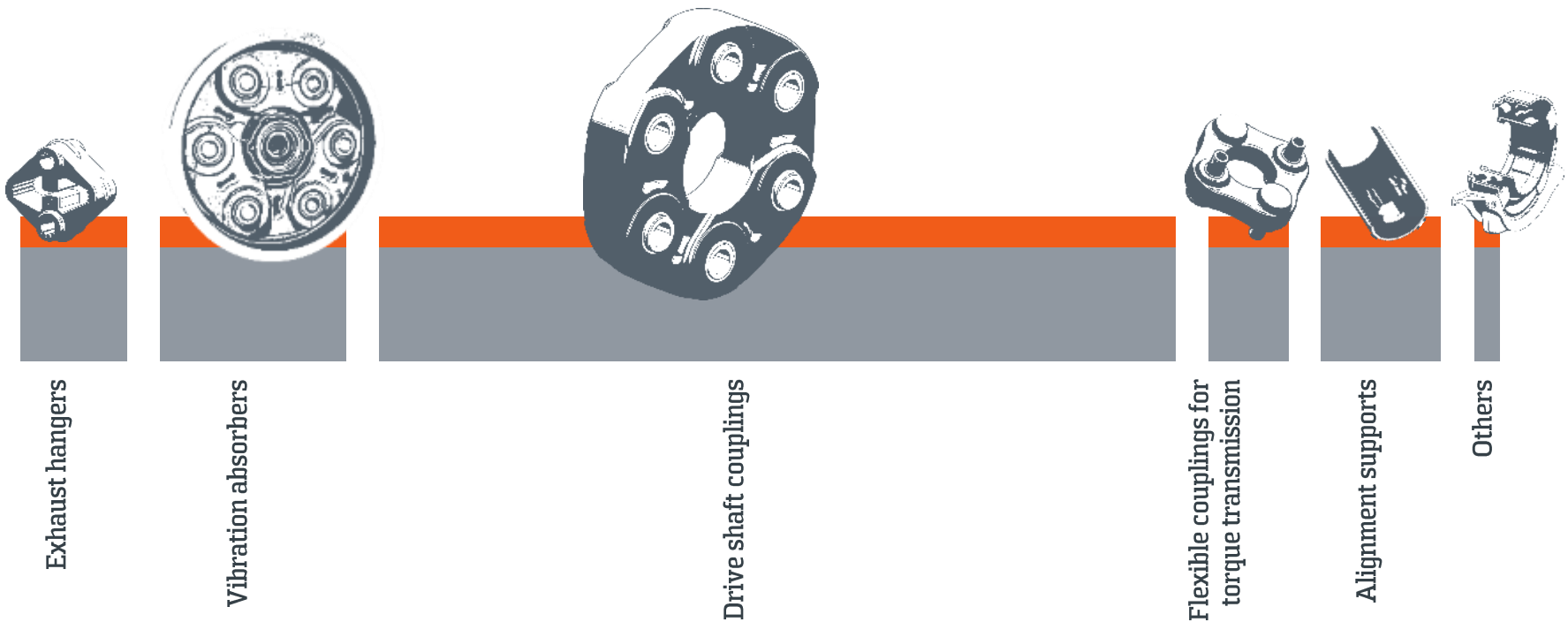
BMW
 IFA Rotorion
 GKN
 Boysen
 Daimler
 TKP
 Neapco
 AAM
 Tirsan Kardan
 Hitachi
 Tenneco
 Elbe
 Ford
 FCA
 Jaguar/Land Rover
 Eberspächer
 Faurecia
 Sonstige

OVERVIEW OF INDUSTRY CUSTOMERS

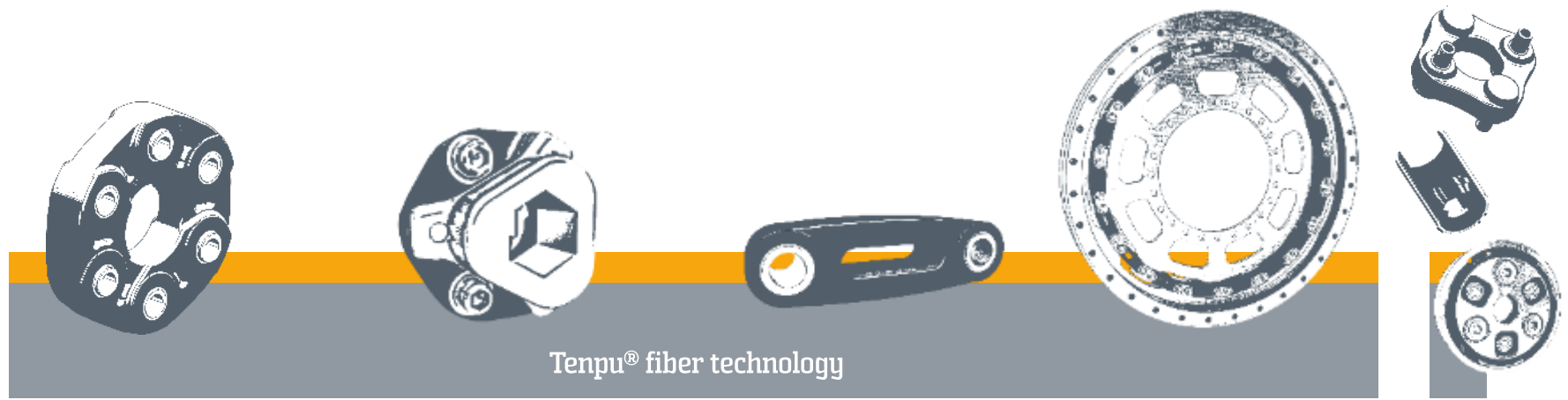


For more than 200 customers, over 100,000 couplings were delivered in 2016.

OVERVIEW OF AUTOMOTIVE PRODUCT GROUPS



OVERVIEW OF INDUSTRY PRODUCT GROUPS



Drive shaft couplings

Flexible couplings for torque transmission

Flexible flange couplings

Tenpu® link elements

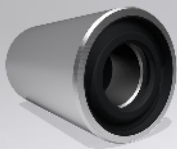
Link couplings

Alignment supports
Vibration absorbers

Tenpu® fiber technology

PRODUCT PORTFOLIO

» SGF products are used in a wide variety of sectors throughout the world.



Alignment supports



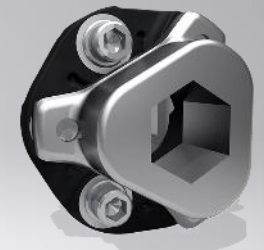
Centre bearings



Link couplings



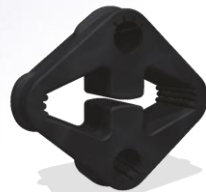
Steering couplings



Flexible flange couplings



Tube-in-Tube



Hangers



Flexible couplings



Vibration absorbers

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.



"Every day, we process
6,500 km* of Tenpu® cord."

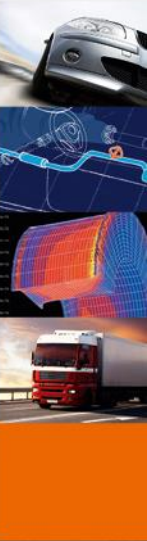
*Waldkraiburg is 6,500 km from New York City as the crow flies.



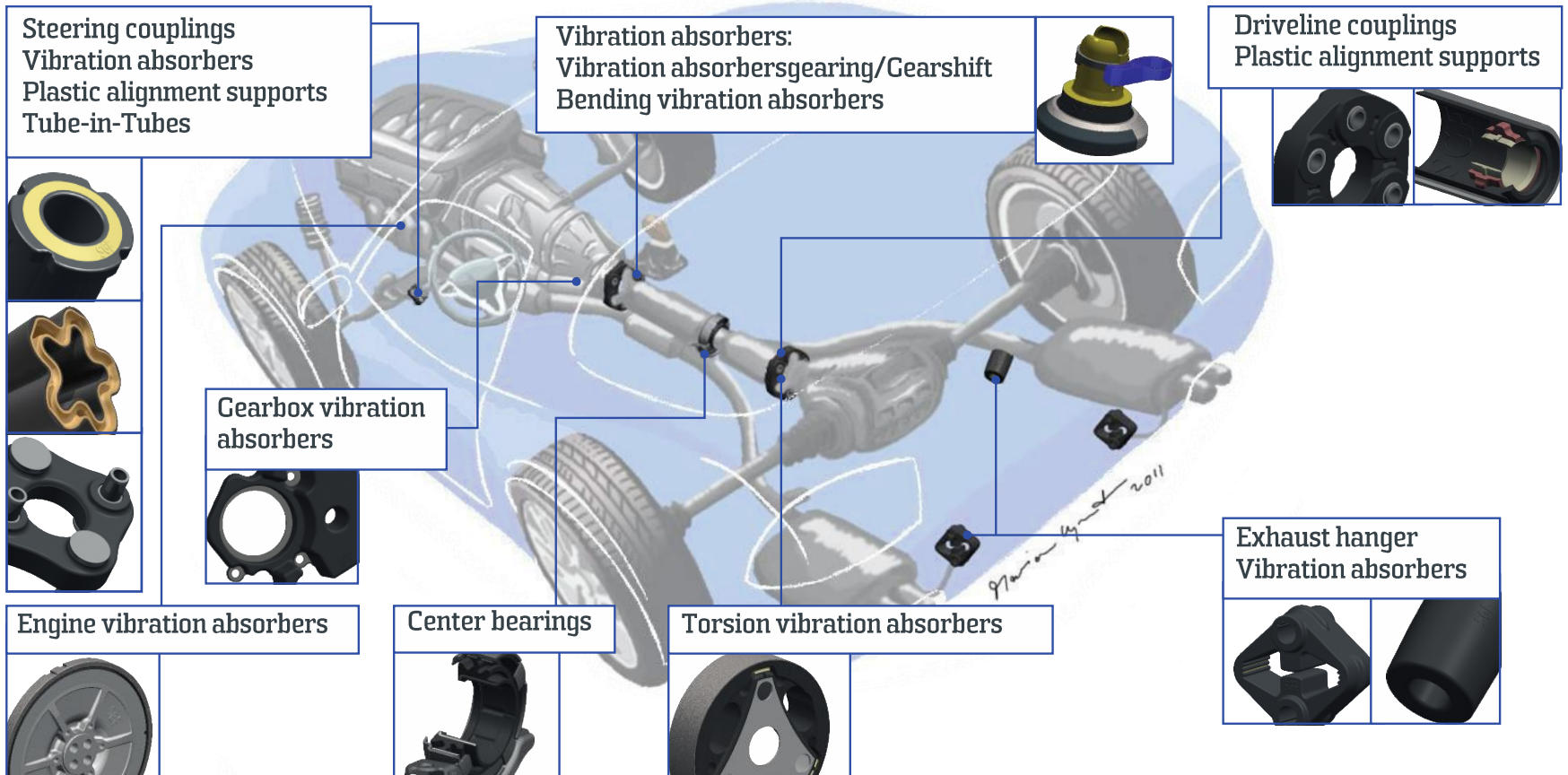
We make drive systems
comfortable and reliable.

SGF Automotive

Safe – through tension force.



SGF PRODUCTS IN THE VEHICLE



SGF AUTOMOTIVE PRODUCT BENEFITS

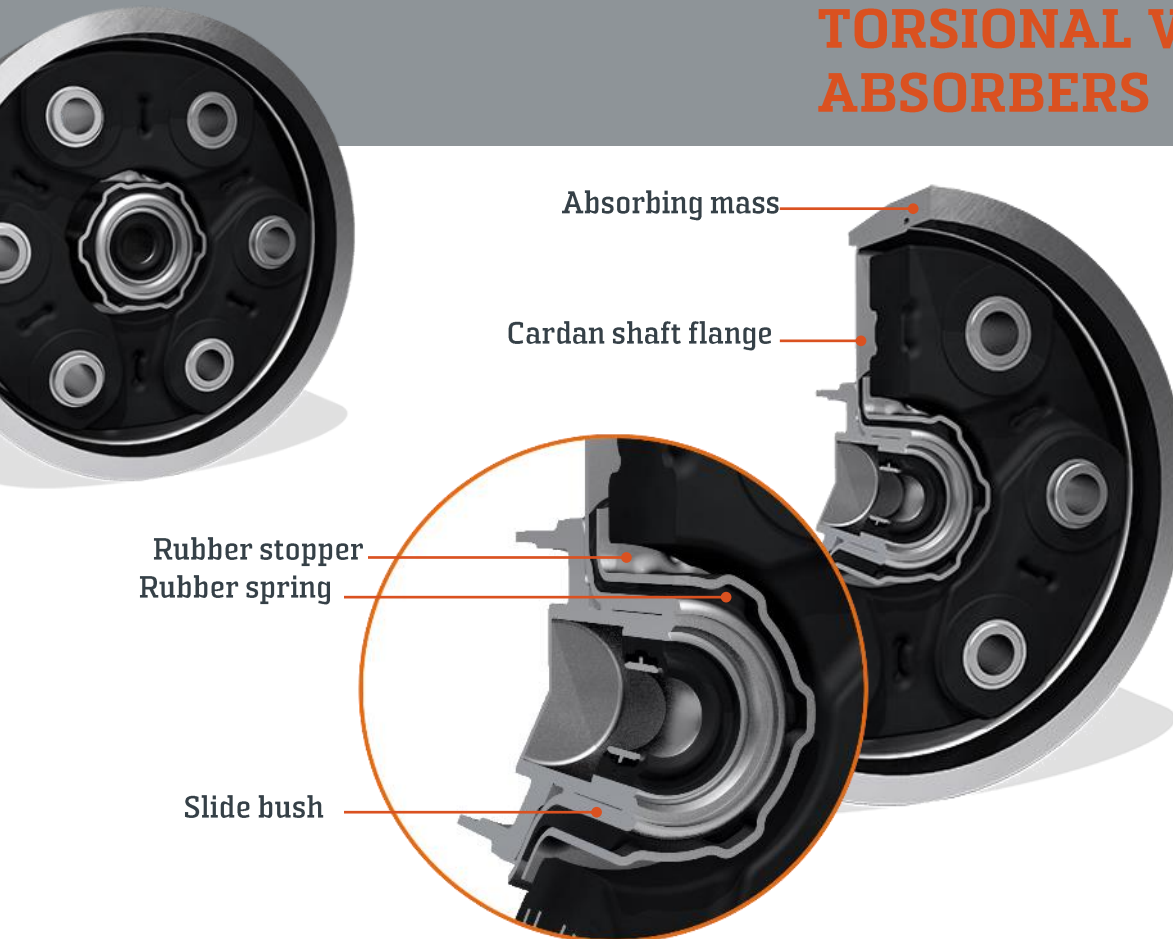
The stiffness of cord-reinforced SGF components is freely adjustable within a wide range and can therefore be customized to suit the acoustic and dynamic performance of the vehicle.

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



INNOVATIONS

TORSIONAL VIBRATION ABSORBERS

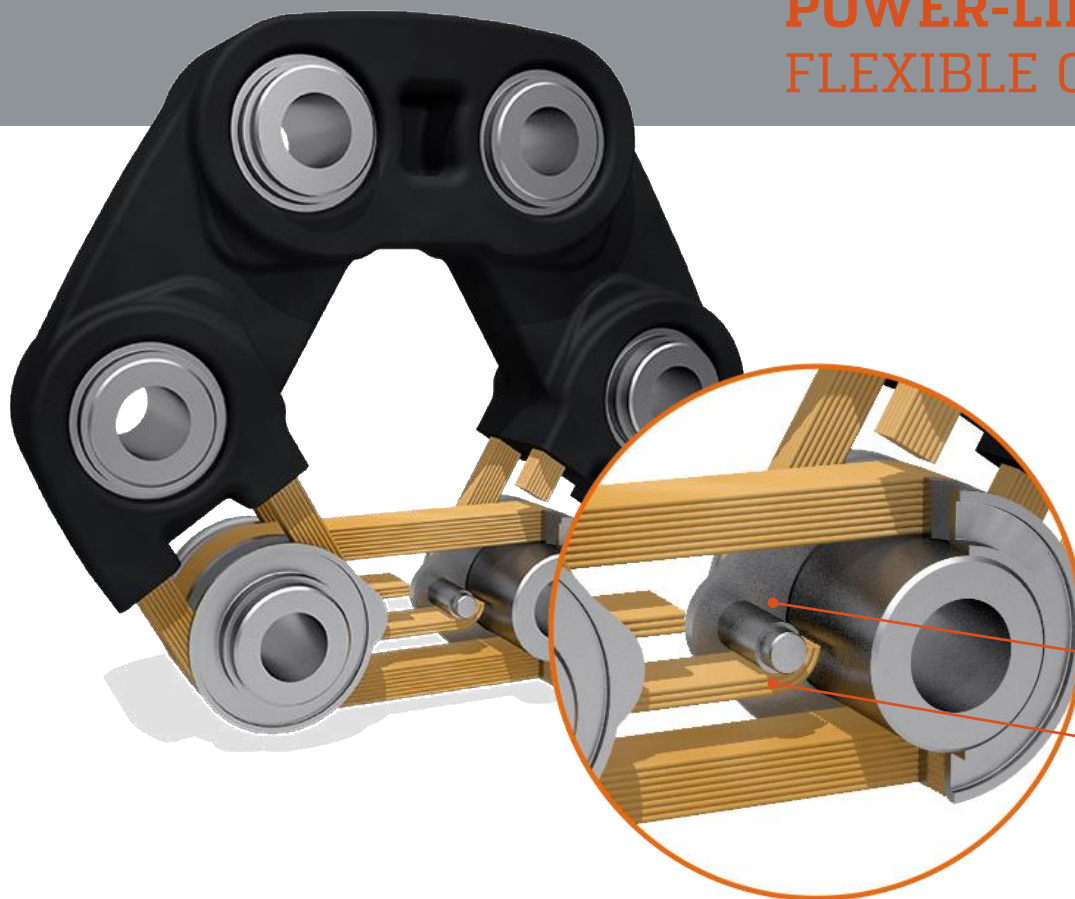


Benefits

- » 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 > $\pm 1.0^\circ$)

INNOVATIONS

POWER-LINE PLUS FLEXIBLE COUPLINGS



The benefits of POWER-LINE PLUS

- » 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

SGF EXPERTISE

More than 70 years' experience in designing and manufacturing **cord-reinforced components**

#1 development partner in the international automotive industry

Virtual product development

Comprehensive platform concept

Significantly **reduced development time** and costs

Highly qualified and responsive technical support

Comprehensive quality assurance measures

Unique product quality via **highly technical and automated processes**



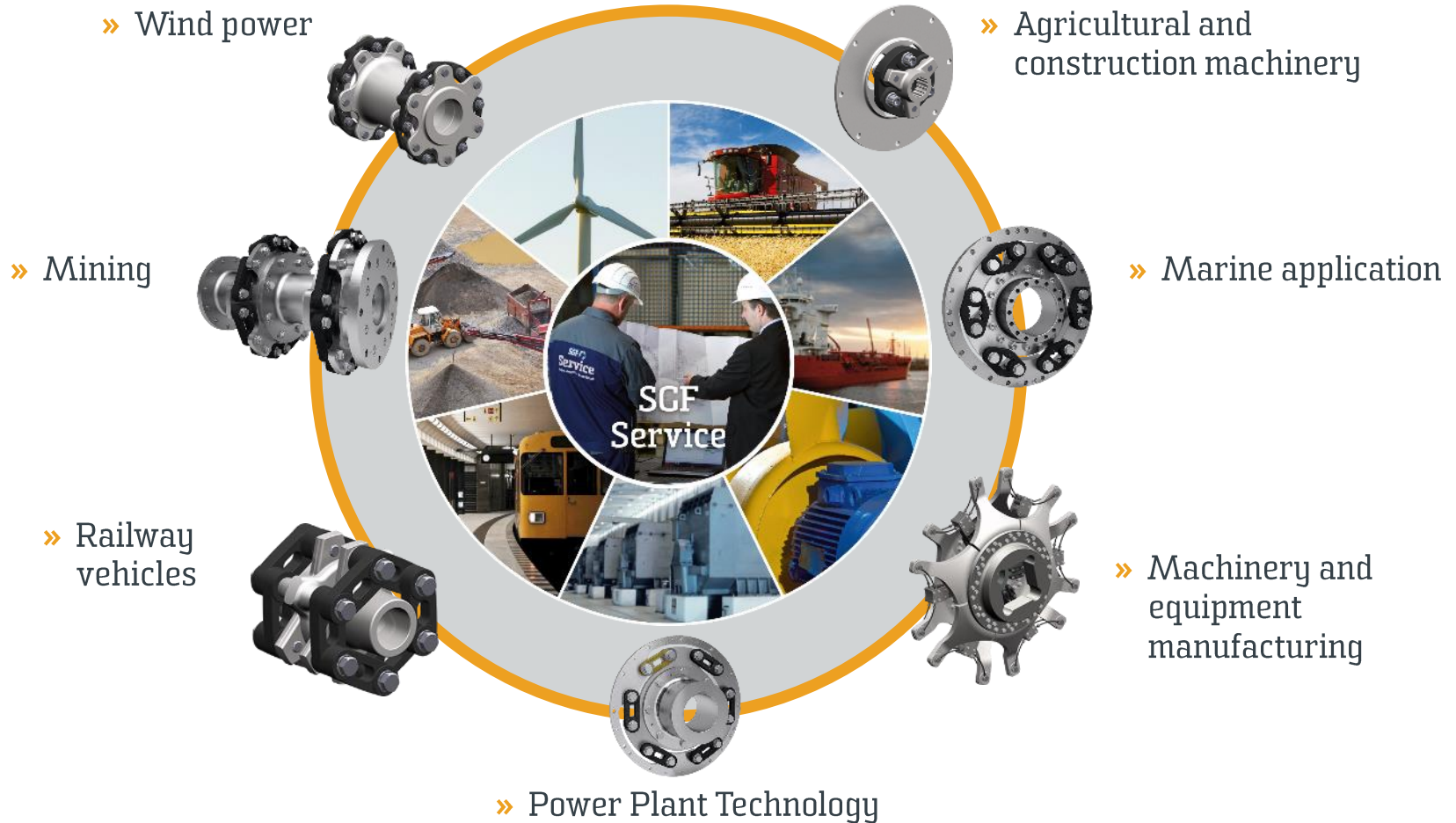
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SGF Industry

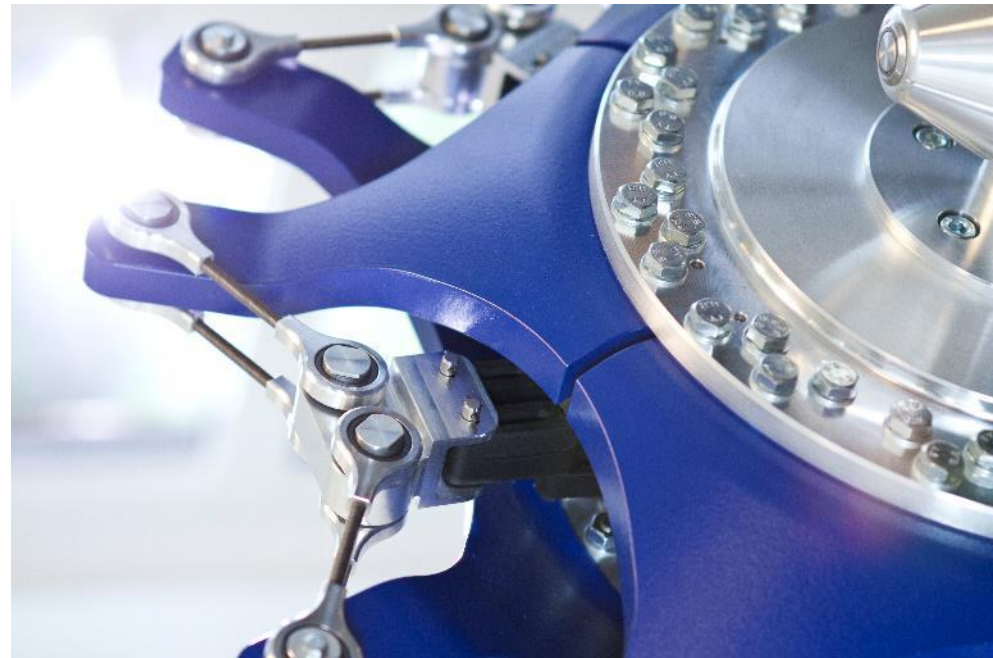
High performance – through tension force.

OVERVIEW INDUSTRY

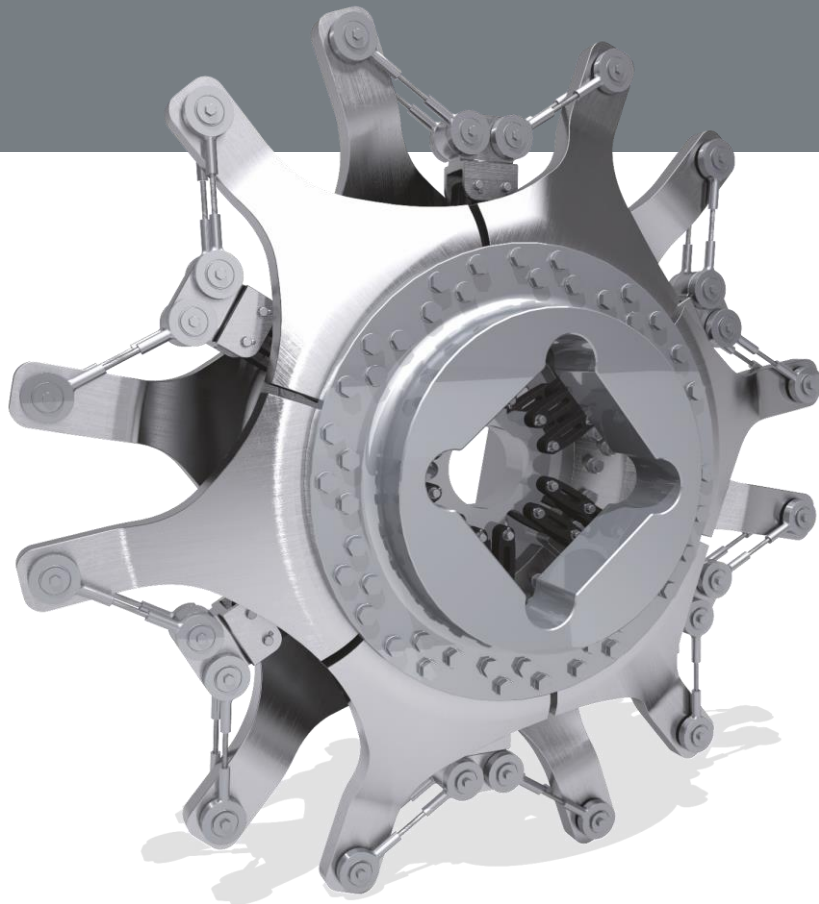


INDUSTRIAL APPLICATION PRODUCT BENEFITS

- » 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**



INNOVATIONS



Y-COUPLING

Characteristics:

- » Damping of rotational vibrations by means of internal links.
- » Compensation of misalignments by an innovative couplings kinematics

Benefits:

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

Technical Data:

- » Nominal torque: up to 1.600.000 Nm
- » Outer diameter: 3.200 mm
- » Weight: approx. 10.000 kg

INNOVATIONS

FLEX COUPLING ASSEMBLY



Characteristics:

- » Compensates axial, radial and angular misalignment
- » Dampens torque peaks

Benefits:

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

Technical Data:

- » Nominal torque approx. 100 Nm up to 3.000 Nm
- » Angular misalignment up to approx. 3° possible
- » Axial misalignment up to approx. 2 mm possible
- » Radial misalignment up to approx. 0,5 mm possible

SGF SERVICE

Maintenance and Service

- » Maintenance, Service and Support with long-term warranty
- » Worldwide available

SGF Academy

- » Basic product-related training courses for interested customers
- » Detailed instruction training for service partners and operators

SGF Engineering/Tenpu® Lab

- » Product development based on your ideas
- » Experience from more than 500 development projects

SGF Manufactory

- » Replacement parts for exclusive applications
- » Manufacturing special parts



CERTIFICATE

- » DIN EN ISO 9001
- » DIN EN ISO 14001
- » ISO/TS 16949
- » Ford Q1
- » Preferred Quality Status
- » DNV GL Type Approval Certificate



MISSION STATEMENT

Pride in Success

Competence

Pioneering Spirit

We make drive systems Comfortable and reliable

Results oriented

EFFICIENCY

reliable partner

VISIONS

Independent, family-owned business

Passion

brilliant product idea

Environmental consciousness

Dedicated problem solvers

Mutual esteem

Tolerance

Trust

Sustainability

Creativity

**“Don’t be put under pressure –
tension based coupling
solutions by SGF.”**



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CONTACT

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