



FOR YOUR
MOBILITY:
DYNAMIC,
SAFETY AND
COMFORT!



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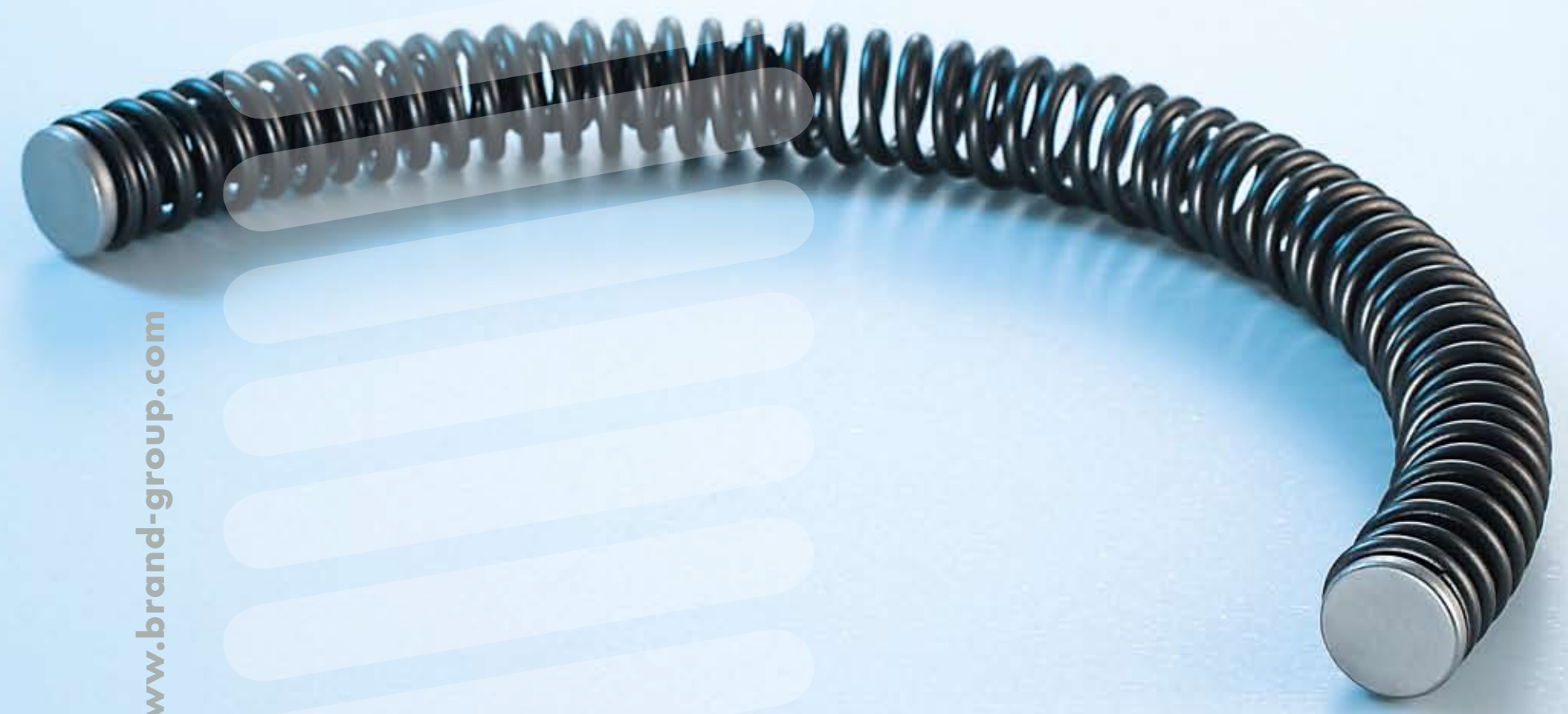
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- Compression springs
- Damper springs
- Formed wire parts
- Spiral springs
- Tension springs
- Torsion bars
- Torsion springs



For decades our customers have valued our reliability and expertise in the area of materials, development and prototype construction, our highly developed production systems for springs exposed to highest stress and wear applications combined with our customer-oriented service. In Europe we have achieved a leading position in our core business areas. For the automotive industry we develop and produce springs for the drivetrain, brakes, steering, pedals, belt tensioner, windscreen wipers, seats and other applications and special solutions.
Make use of our expertise!



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WE MOVE THE FUTURE!



OUR SPECIALTY: CYLINDRICAL DAMPER SPRINGS/ARC SPRINGS FOR CLUTCHES, TORQUE-CONVERTORS AND DUAL-MASS FLYWHEELS

- high quality oil tempered torsion and valve spring wire qualities with round and also profiled wire cross-sections
- with the option of progressive spring rate curve
- in cold-set and hot-set versions
- in nitrided version to increase the lifetime and reduce wear
- wire thicknesses: 0.8 – 9.0 mm
- for the most demanding applications >100 million load cycles special material CrSiVaNi

TENSION SPRINGS

- springs compliant with global standards and special shapes with additional fitting eyelets or stem eyelets
- wire thicknesses: 0.8 – 12.0 mm, other cross-sections on request
- colour markings of all types

SPIRAL SPRINGS

- specially developed production process to minimise friction between the coils to reduce wear
- round or flat material
- wire thicknesses: 0.8 – 12.0 mm round
- strip widths: 2.0 – 20.0 mm
- strip thicknesses: 0.8 – 12.0 mm
- other sizes possible on request

COMPRESSION SPRINGS

- cylindrical and conical versions
- ground and un-ground
- cold-setting or hot-setting
- shot-peening to satisfy high dynamic requirements
- wire thicknesses: 0.8 – 12.0 mm, other cross-sections on request
- all surface treatments specified by the automotive industry can be supplied

TORSION SPRINGS/FORMED WIRE PARTS/TORSION BARS

- some production carried out on machines we have developed ourselves with up to 20 controlled axis
- low tool use enables flexible and economic production from prototypes to large production runs
- wire thicknesses: 0.8 – 9.0 mm, other cross-sections on request
- special features: complex, multi-dimensional bent parts can also be produced and checked using a video measuring system

SPRING COMPONENTS/ASSEMBLIES/SERVICE

- production and assembly of individual parts
- specially developed automatic assembly machines
- on agreement, we can also take over procurement of additional components for the assemblies
- special packaging is also possible, as is control of logistics services right up to the consignment warehouse