

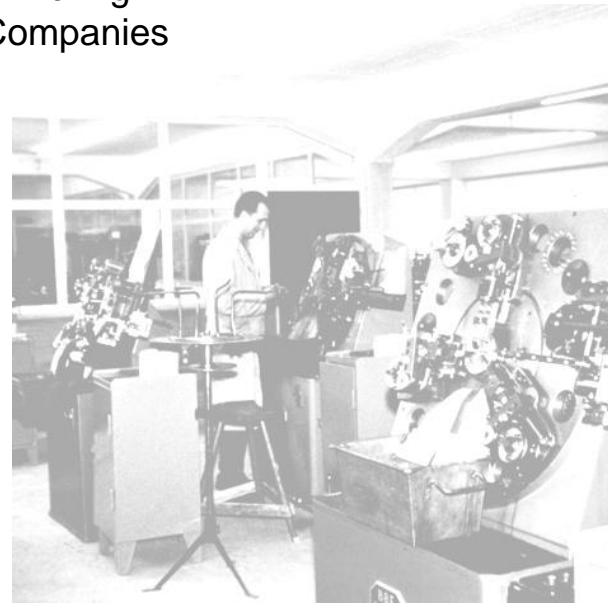
Company Presentation

Schnöring GmbH

A member of KERN-LIEBERS Group of companies

History

- Founded in 1926 as spring factory by Karl and Ernst Schnöring
- Since 2018 – a member of KERN-LIEBERS Group of Companies



KERN-LIEBERS Group of Companies

- Mid Size German Family Owned Company founded in 1888
- Manufacturer of High Precision Parts
- Main Focus on Springs and Stamped Parts
- International Production Footprint



Facts Fiscal Year 2019/2020:

	Net Sales	Employees	Production Sites
Total	640.000.000€	6.930	52
...in Germany	359.000.000€	3.362	18
...in the rest of the World	281.000.000€	3.568	34

KERN-LIEBERS Group of Companies

KERN-LIEBERS

WIRE AND SPRINGS

Wire and Springs

Wire springs
PV-Wires
Flat Wires and
Specialty Wires
Pieron clamping rings
Brand wires
Plastic Metal
Composite Parts
Spiral- / Techn.
Springs

KERN-LIEBERS

STAMPED-BENT PARTS AND SPRINGS

Stamped-bent Parts and Springs

Heavy springs
Stamping / Bending

KERN-LIEBERS

STRIP SPRINGS

Strip Springs

Springs for restraint
systems
Springs for general
applications
Spiral springs and
constant force
Springs GS

KERN-LIEBERS

STAMPED PARTS

Stamped Parts

Turbocharger Parts
Diesel/Gasoline Inject.
Systems
Transmission Parts
Laser Machined Comp.
Shocks
Pumps
Heat treatment
Multi contact wipers
Powertools

KERN-LIEBERS

TEXTILE

Textile

Needles Weft-Knitting
Needles Warp-
Knitting
Platines Weft-Knitting
Platines Warp-Knitting

Products from Schnöring GmbH

Development and production of springs, stamping parts, bending parts and assemblies.



Staff and education

- 200 established staff
Administration and sales: 30 employees
Technique and production: 170 employees
thereof 20 apprentices
- Inhouse training workshop for technical apprentices



Development and tool shop

- Inhouse design engineering with 5 employees
- Siemens PLM-NX software (bNX 8.0+)
- Development and problem solving together with customers
- Revise and support of product design
- Engineering of high technological tools for assemblies, stamping and bending parts and progressive tools

- Inhouse tool shop for tools up to 80t
- 25 employees
- New NC technology

Machinery

- Modern machinery
- More over than 200 machines for springs, stamping and bending components



Usage of materials

- Strip material with thickness of 0.10 – max. 2.00 mm and width till 120 mm
- Wire with diameter of 0.20 – max. 2.00 mm
 - Round wire
 - Section wire
 - Flat wire
- Different specific alloys and types of material
 - E.g. carbon steel, chromium nickel steel, non-ferrous metals

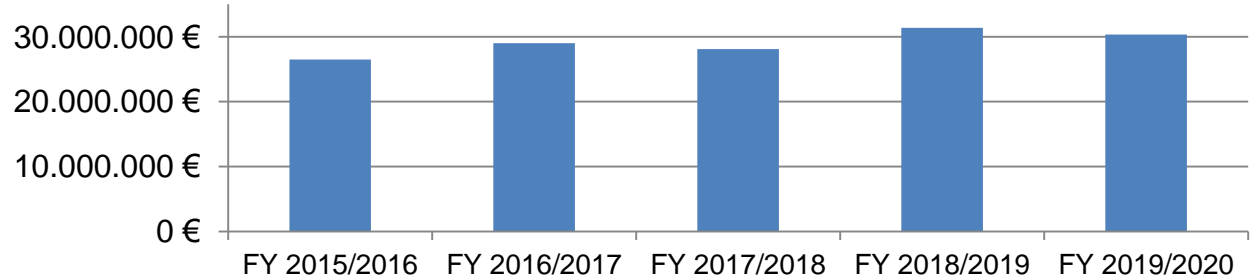
Quality Management

- DIN-certified EN ISO 9001:2015
- Supported by CAQ
- Different measurement methods for specified parts: digital 2D profile projector, testing of roughness and strength, optoelectrical 100% control

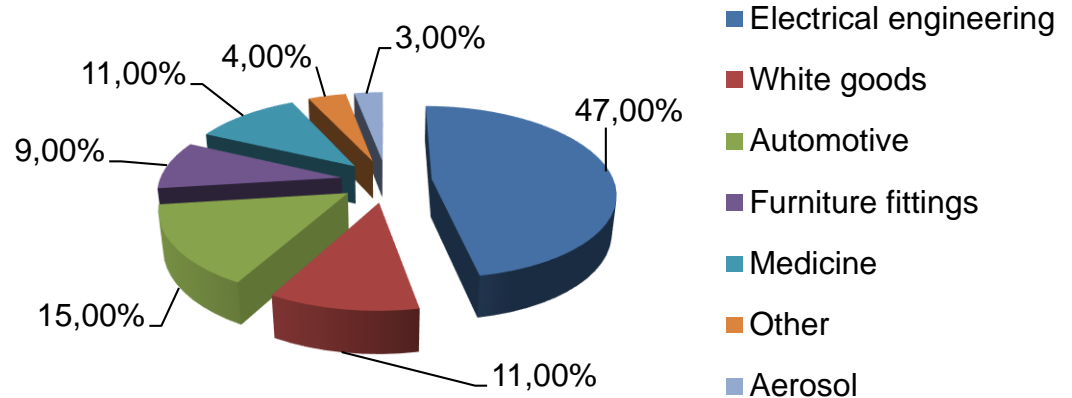


Turnover

Development of turnover



Turnover in industries GJ 2019/2020



Expertise Sauerland

- Cooperation of 8 companies from same area called Sauerland
- Portfolio of products with different production sectors using metal and plastic materials
- Possibility of producing different types of stamping, bending and forming parts, using variegated technology of turning, milling and manufacturing of tools
- Ambition: consolidating know-how of each company to support all customers
- „All in one“



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