

ZOLLERN

Solid metals. Fine solutions.

Steel profiles

Textile
machinery





Highest precision in shaping

On a production area of almost 20,000 square metres, ZOLLERN processes 200 different, application-specific materials into first-class steel profiles. Six million metres of steel profiles are produced here every year using state-of-the-art technology by qualified specialists. ZOLLERN manufactures individually, according to the special customer requirements. So far, 8,000 different steel profiles have been produced and more are being produced every day.

Features and advantages of ZOLLERN steel profiles

- 100% quality
- 60% material saving
- supreme surface quality
- unique mechanical properties
- 1200 MPa after cold drawing
- perfect dimensional accuracy and reproducibility
- conservative use of available resources throughout the entire production chain
- contribution to reduction in costs

Individual design

Economical solutions

ZOLLERN steel profiles are developed in close cooperation with the customer. Thanks to the versatile possibilities in the shaping of steel profiles, there are virtually no limits to the designs. Steel profiles allow economical solutions even for custom designs.

Steel profiles for textile machines

ZOLLERN steel profiles ensure fast and precise movements in flat knitting, circular knitting, spinning, weaving, warp knitting and carding machines.

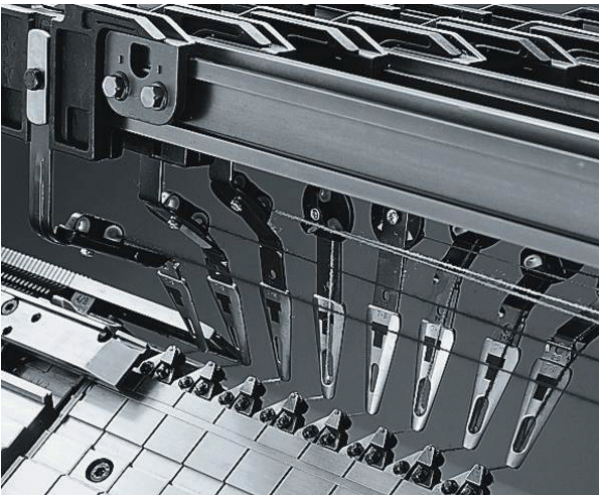
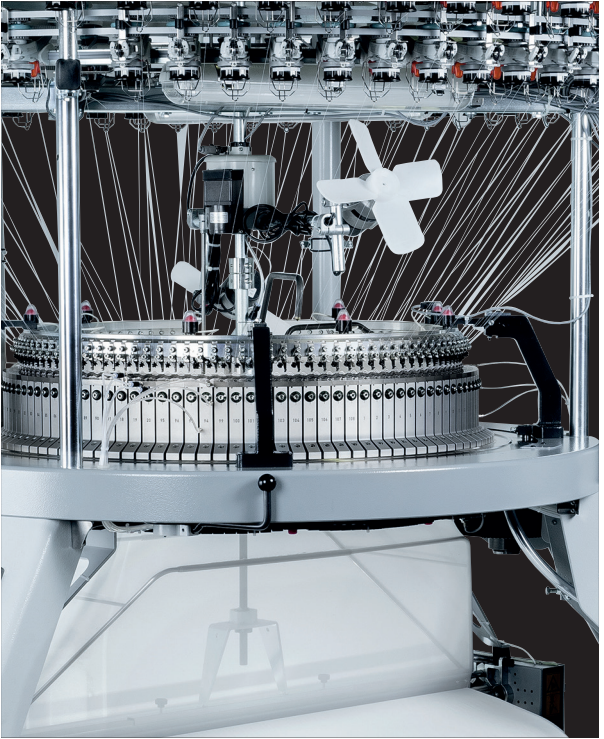
The surface quality of the profiles must meet very high demands in terms of function and appearance.

Near-net-shape production reduces machining to a minimum

- technological properties specially adapted to the customer application
- high fatigue strength and long service life
- exact dimensional accuracy even with complex profile shapes
- minimal distortion due to specially adapted straightening processes

Product examples

- take-of rollers
- yard guides
- delection aids
- needle bars
- guide rails and
- apron bridge elements



ZOLLERN steel profiles

Product range

Profile designs

hot-rolled, cold-rolled, cold-drawn, induction hardened

Cross sections

Profile cross-sections 5 to 7,650 mm² (40 g/m to 60 kg/m)

Delivery possibility

Rods up to 12 m

Rings up to 2 tons

Dimensional tolerances

from 30 µm

Surface roughness

from Rz 5 µm

Materials

Structural steels, free-cutting steels, case-hardening steels, quenched and tempered steels, rolling bearing steels, tool steels, stainless steels

Machining

Heat treatment, induction hardening which can achieve a surface hardness of up to 64 HRC, ready-to-fit components including mechanical processing and surface finishing



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Subject to errors and modifications.

Photography: Getty Images, Fotolia, Mayer & Cie. GmbH & Co. KG, H. Stoll AG & Co. KG, ZOLLERN GmbH & Co.

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