

ZOLLERN

Solid metals. Fine solutions.

Steel profiles

Construction
industry





Maximum precision in design

In a production area covering almost 20,000 square metres, ZOLLERN processes 200 different materials selected for specific applications into first class steel profiles. Six million meters steel profiles are produced here each year by qualified specialists using the latest technology. ZOLLERN custom manufactures its products according to specific customer requirements.

That is why 8,000 different steel profiles have been produced to date, and this number is increasing every day.

Features and benefits 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

Cost-effective solutions

ZOLLERN steel profiles are produced in close collaboration with the customer. Thanks to the wide-ranging design options for steel profiles, there are virtually no limits to the construction possibilities. Steel profiles make cost-effective solutions possible, even in the case of customised designs.

Steel profiles for the construction industry

- Good weldability
- High fatigue strength and a long service life
- Wide range of possibilities for designing different profile shapes
- Close tolerances
- Technological properties specifically tailored to the application
- Minimal distortion thanks to specific straightening methods

Product examples

- Driver rails for kelly bars
- Profiles for door locking systems
- Spline shafts
- Special profiles for scaffolding and facade construction
- Profiles for locks and fittings



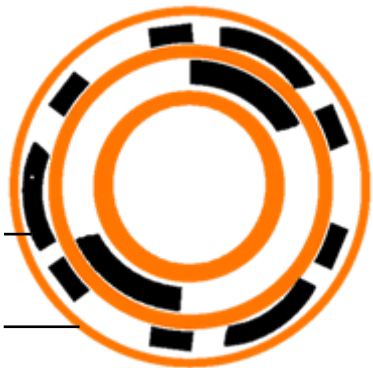
ZOLLERN steel profiles are used in the manufacture of locks and locking systems.



Kelly drilling is the most widespread large-hole drilling method in deep drilling technology. ZOLLERN steel profiles allow effortless transmission of torques of up to 500 kNm. The steel profiles are fitted to the so-called kelly bar, a drill pipe consisting of multiple telescopic sections, where they serve as guide and driver rails. This makes it possible to achieve drilling diameters of up to 3 metres and drilling depths of up to 90 metres.

Steel profiles as guide and driver rails

Telescopic drill pipe (kelly bar)



ZOLLERN steel profiles

Product range

Profile types

Hot-rolled, cold-rolled, cold-drawn, induction-hardened

Cross sections

Profile cross sections from 5 to 6,000 mm²
(40 g/m to 48 kg/m)

Delivery options

Bars up to 12 m
Rings up to 2 t

Dimensional tolerances

From 30 µm

Surface roughness

From Rz 5 µm

Materials

Structural steels, free-machining steels, case-hardened steels, quenched and tempered steels, rolling-bearing steels, tool steels, stainless steels

Processing

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



ZOLLERN

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