

Moving the
Boundaries of Steel
with us



Future-oriented Solutions

As a medium-sized Bavarian company, we are specialized in the production of peeled steel bars and inductive heat treatment for quenching and tempering and surface hardening. Our particular strengths include the production of machined short parts and high-precision rack bars (blanks). As part of the Max Aicher Group, we obtain our steel from our own steel and rolling mills, manufactured from 100% recycled scrap.

Our quality steel is used in various industries worldwide. As a certified supplier to the automotive industry, we prove daily that we comply with the latest standards and the highest quality requirements. We are the right semi-finished material supplier for companies that focus on sustainability and need steel for their future projects.

> AUTOMOTIVE



> MACHINE AND PLANT ENGINEERING



> COMMERCIAL VEHICLE INDUSTRY



> ENERGY PRODUCTION



Our Know-How:

Production

Processes

Heat Treatment

INDUCTIVE SURFACE HARDENING

- ✓ Complex heat treatment process
- ✓ Targeted surface hardening
- ✓ Defined surface hardness and hardening depth
- ✓ Process monitoring according to CQI9 standard

INDUCTIVE SINGLE BAR QUENCHING AND TEMPERING

- ✓ State-of-the-art inductive tempering systems
- ✓ Low residual stress level and high reproducibility
- ✓ Ideal for the requirements of the steering and screw industry, as well as drive and linear technology

CONVENTIONAL HEAT TREATMENT

- ✓ including AC, FP, N and S annealing

Bright Steel Production

PEELING/STRAIGHT POLISHING/TESTING/GRINDING

- ✓ High-precision bright steel
- ✓ Compliance of precision diameter tolerances
- ✓ Optimum surface quality
- ✓ State-of-the-art testing facilities for non-destructive testing
- ✓ End machining by means of facing and/or chamfering

Short Parts Production

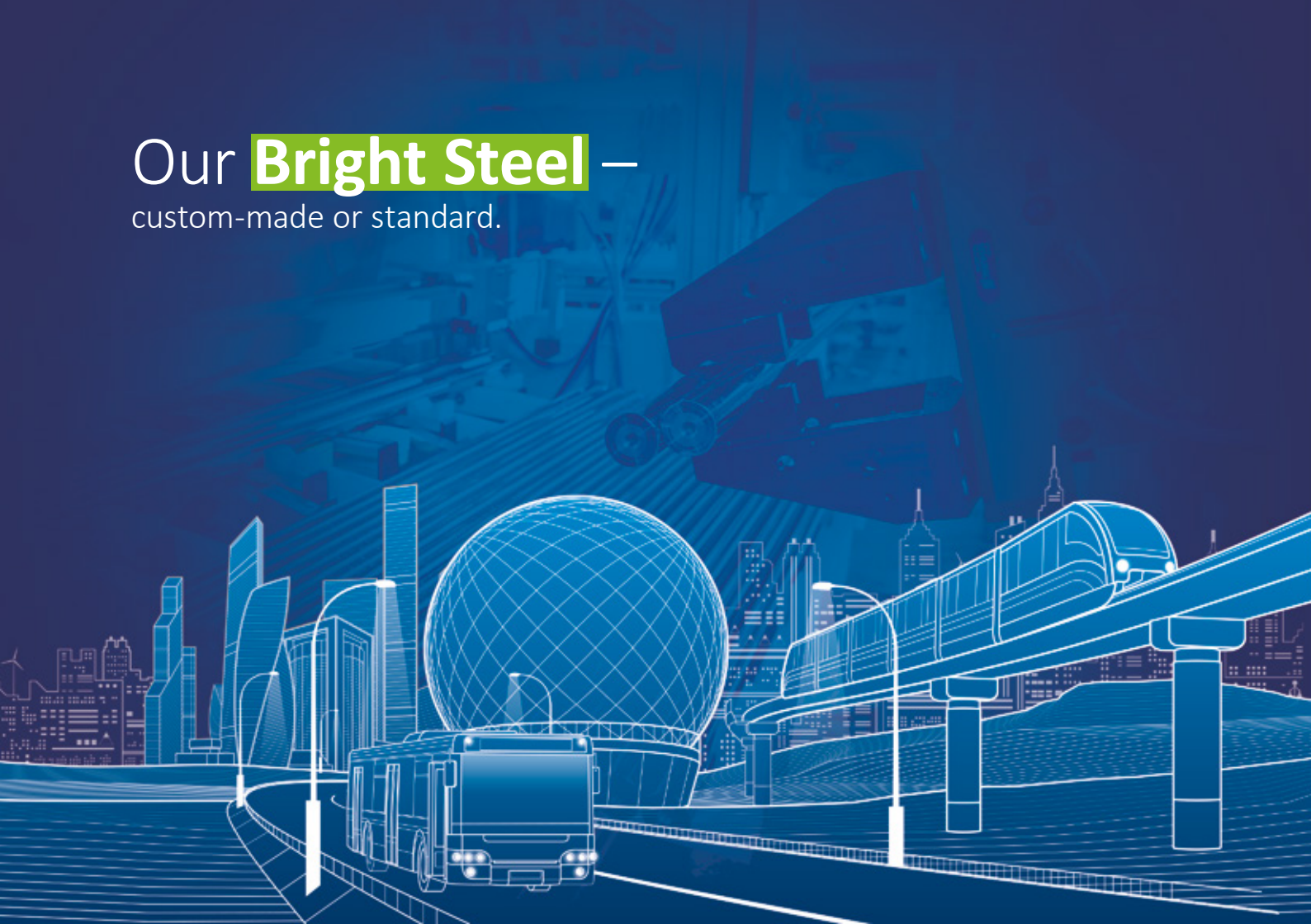
SAWING/CONTOUR TURN./BLASTING/FACING/CHAMFERING

- ✓ Length and length tolerances acc. to requirements
- ✓ Automatic short part lines
- ✓ Ground and finished short parts
- ✓ Packaging into customer or own containers

Other Services

- ✓ Deep hole drilling
- ✓ Tube quenching and tempering
- ✓ Friction welding
- ✓ Metal powder for additive manufacturing

Our **Bright Steel** —
custom-made or standard.



Type	Spectrum	Ø min.	Ø max.	length min.	length max.
SERVICE SPECTRUM HEAT TREATMENT					
Inductive surface hardening (+RSH) on single bar	surface hardening to defined hardening depths and surface hardness	18.00	50.00	3000	8000
Inductive quenching and tempering (+QT) on single bar	QT to target strength/structure specifications (tubes up to OD 50 mm)	18.00	70.00	3000	8000
Inductive hardening (+Q) on single bar	Hardening to target strength/structure specifications	18.00	70.00	3000	8000
Conventional annealing in furnace	Target strength/structure specifications (+A, +AC, +FP, +N, +S, +TH, +SR, +CR)	18.00	125.00	3000	8500
SERVICE SPECTRUM BRIGHT STEEL PRODUCTION					
Saws (bandsaw)	Sawing in bundles for standard lengths	18.00	300.00	3000	8000
Straightening	Straightness max. 2 mm	18.00	85.00	3000	8000
Peeling and straight polishing	Tolerance field h9 acc. to DIN EN 10277 (straight polishing up to Ø 80 mm)	18.00	125.00	3000	8000
End machining	Chamfering/deburring/facing	18.00	100.00	3000	8000
Non-destructive material testing	Crack testing, ultrasonic testing, mix-up testing	18.00	100.00	3000	8000
Grinding	Tolerance field h6 up to h9 acc. to DIN EN 10277	18.00	60.00	3000	7800
SERVICE SPECTRUM SHORT PARTS PRODUCTION					
Saws (cold circular saws)	Fixed lengths	18.00	90.00	20	2500
End machining	Chamfering/deburring/facing/pivoting/centering/brushing/signing/stamping	18.00	90.00	20	2500
Grinding	Tolerance field h6 up to h9 acc. to DIN EN 10277	20.00	35.00	500	1000
Long turning	Contour machining				on request
Surface blasting	Medium: glass beads or on request				on request

All data in mm, other dimensions on request.



> STEEL AND STANDARDS

General construction steel	DIN EN 10025
Steel for flame- and induction hardening	DIN 17212 (withdrawn)
Steel for quenching and tempering	DIN EN ISO 683-1/-2
Case hardening steel	DIN EN ISO 683-3
Nitriding steel	DIN EN 10085
Free-cutting steel	DIN EN ISO 683-4
Spring steel	DIN EN 10089
Cold extrusion steel	DIN EN 10263 Teil 1-5
Ball bearing steel	DIN EN ISO 683-17
Chain steel	DIN 17115
Tool steel	DIN EN ISO 4957
AFP steel	DIN EN 10267
Stainless steel	DIN EN 10088 part 1, part 3

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