



Wickeder Group

**AUERHAMMER
METALLWERK GMBH**

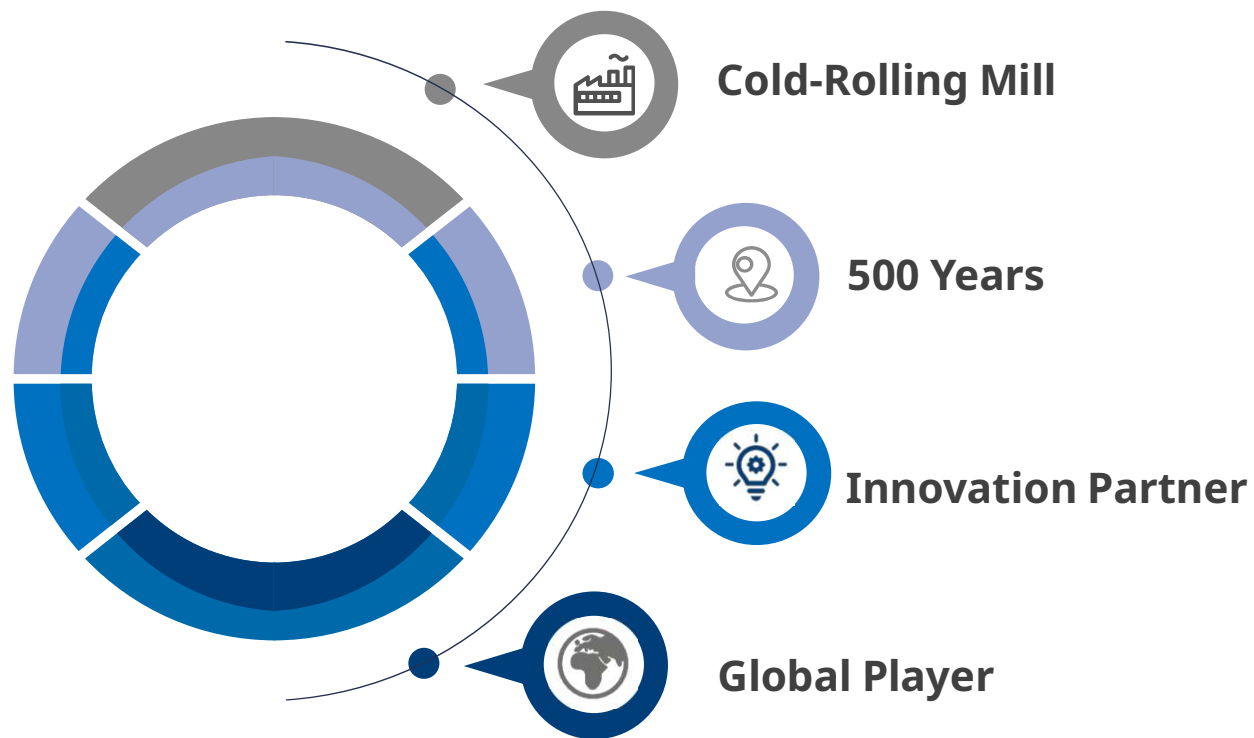
Auerhammer's Numbers 2025

Revenue 55 m€

Tonnage 5,300 t

Employees 170

About Us



Cold-rolling mill producing customized single-layer and multi-layer metal strips and foils

500 years of experience in metal processing in Aue, Germany

Shaping the future together with smart tailored material solutions

Local company with global reach operating in various industries, e.g. for Siemens, ABB, Hilti

Part of Wickeder Group



Functional Material Group



Micro Component Group



Metal Technology Group

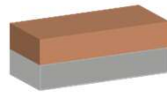


Auerhammer's 500 years of History



1526

First historical mention as
Uttenhofer Eisenhammer



1918

Manufacturing of
copper-clad steel sheet



1990

Foundation of Auerhammer
Metallwerk GmbH



1823

First European production of
Argentan (Ni-Ag) by Dr.
Geitner, pioneering nickel-
based alloys



1950

Start of development
and production of
special metal materials



Wickeder Group

2015

Member of
Wickeder Group

Auerhammer's Vision, Mission & Values

With metal special strips thinner than 30 micrometers, we will turn innovation-oriented decision makers into technology leaders of their industries.

Mission



Vision

In 2026, we will be the global technology leader for innovative and special material properties for metal strips thinner than 30 micrometers.

Respect. Reliability. Action Strength.

Auerhammer's Product Portfolios

Clad Materials



Smart combinations of two or more metals, that unite the positive properties of each individual metal.

Thermostatic Bimetals



Special form of clad materials that use their distinct thermal expansion properties to achieve precise thermostatic functionality.

Metal Strips



Single metals made of special alloys with special physical properties.

Metal Foils



Ultra-thin metal strips with thicknesses from 10 µm down to 2 µm and widths less than 110 mm.

Toll Processing



Comprehensive processing services across all production steps.

Auerhammer's Industries



ELECTRO &
CONSUMER
ELECTRONICS



BATTERY



WELDING



SENSORS



ENERGY &
HYDROGEN



MEDICINE



METAL
PROCESSING



DEFENCE &
AEROSPACE



COIN

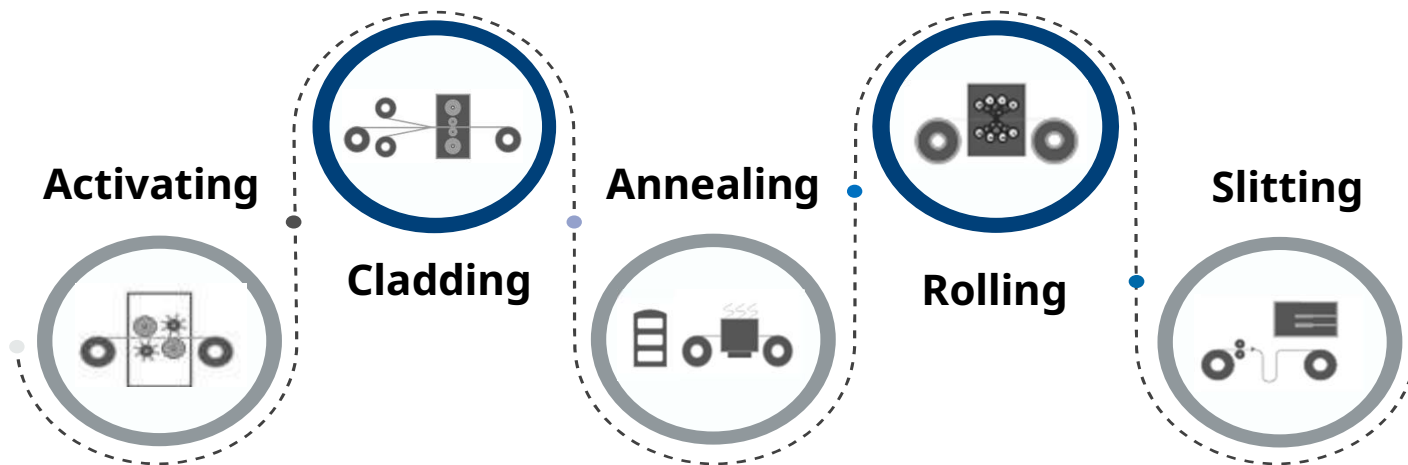
Clad Materials – Flexible as a building kit!



Clad Materials – Process



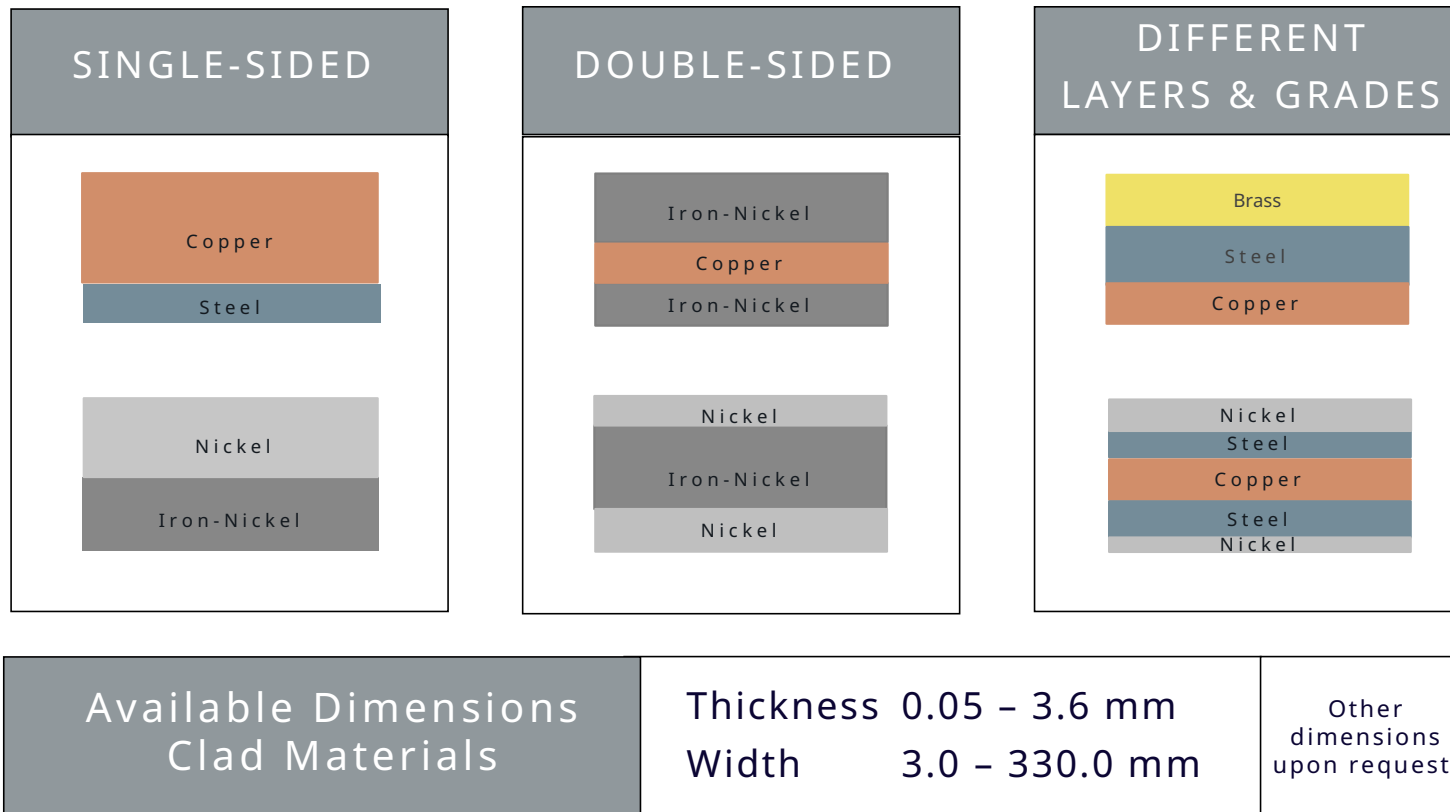
HOW DOES CLADDING WORK ?



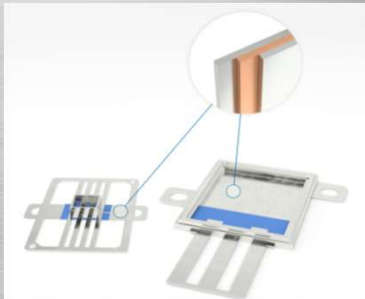
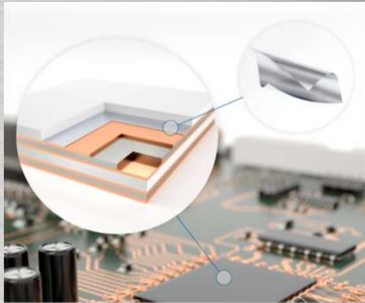
Clad Materials – Cladding Options



ENDLESS POSSIBILITIES OF COMBINATIONS!



Clad Materials – Applications



Electro
Industry

Power
Electronics

Cu-Invar-Cu
(+ Metal Foil)

Electro
Industry

High
Performance
Chips

FeNiCo29/18-
Cu-
FeNiCo29/18

Energy
Industry

Current
Collectors

Ni-Steel-Ni

Thermostatic Bimetals – More than 100 types for your safety!

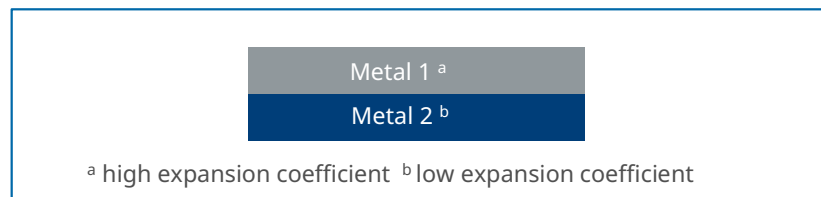


Thermostatic Bimetals – Functionality

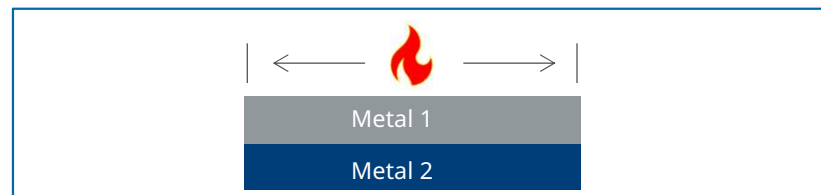


HOW DO THERMOSTATIC BIMETALS WORK?

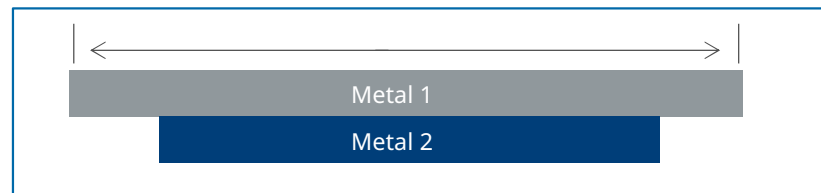
Initial Form



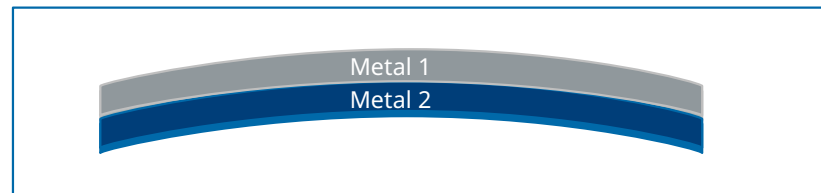
Temperature Increase



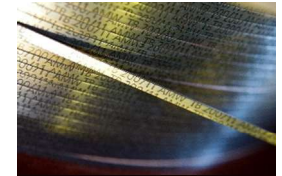
Expansion



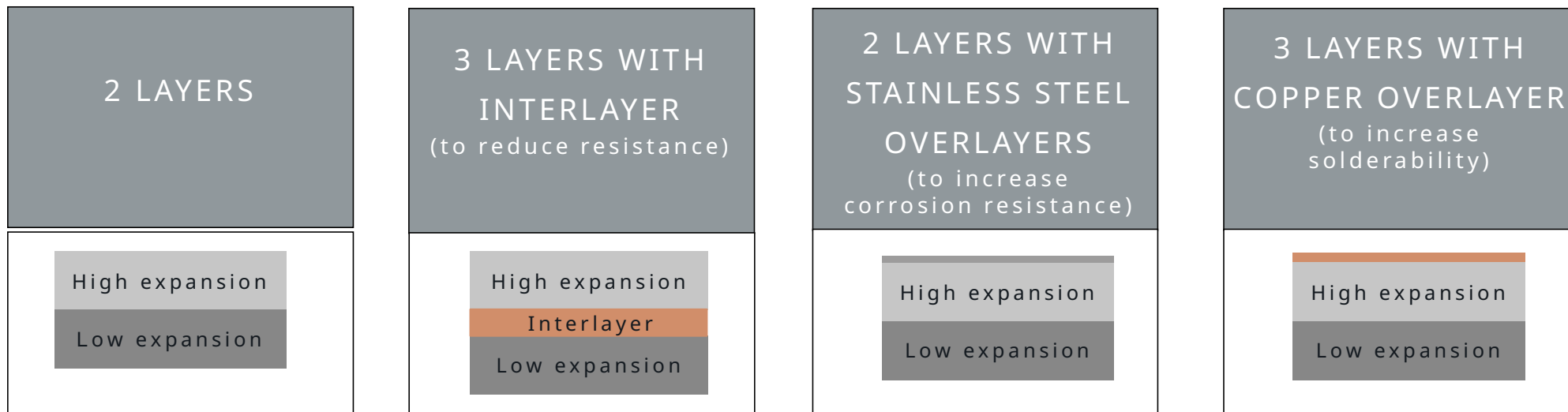
Curvature



Thermostatic Bimetals – Cladding Options



FOR CONTROL, REGULATION & LIMITATION
OF TEMPERATURE-DEPENDENT VARIABLES



Available Dimensions
Thermostatic Bimetals

Thickness 0.05 – 2.0 mm
Width 3.0 – 250.0 mm

Other
dimensions
upon request.

Thermostatic Bimetals – Applications



Automotive
Industry

Motor
protection

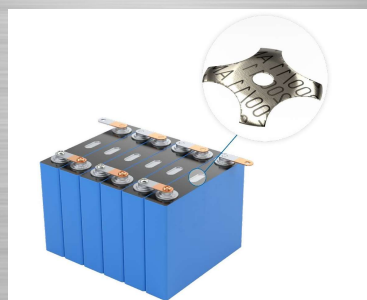
e.g.
TB 208/110



Electro
Industry

Safety
switches

TB with medium
thermal curvature
(e.g. TB 148/35,
150/19, 150/15)



Battery
Industry

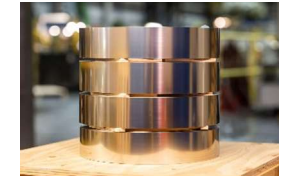
Battery
protection

e.g.
TB 155/78

Metal Strips – Functional special alloys for demanding applications!



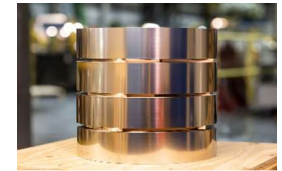
Metal Strips – Various Range of Alloys



SPECIAL ALLOYS FOR SPECIAL REQUIREMENTS

Nickel Good electrical conductivity and corrosion resistance	NiFe – Alloys (Sealing and Expansion Alloys) Adapted thermal expansion	FeNi-Alloys (Soft-Magnetic Fe-Ni-Alloys) Defined soft magnetic properties	Welding Filler Alloys Chemical composition adapted to the welding process
NiCu – Alloys Excellent corrosion resistance	CuNi – Alloys High chemical resistance, adjusted electrical resistance	NiCr, NiCrFe, NiMoCr – Alloys Heat and corrosion resistance	Ti, Cu and more Special Alloys Upon request
Available Dimensions Metal Strips		Thickness 0.02 – 3.25 mm Width 3.0 – 380.0 mm	Other dimensions upon request.

Metal Strips – Applications



Battery
Industry

Anode
Caps

Ni

Hydrogen
Industry

Bipolar
Plates

Ni / Ti

Sensor
Industry

Torque
Sensor

FeNi-Alloys
(Soft-magnetic
alloys)

Metal Foils – Microns are no longer the tolerance, but the thickness!



Product Portfolio – Metal Foils



UP TO 20 x THINNER THAN A HUMAN HAIR!

2 μm

Auerhammer's thinnest precision metal foil: 0.002 mm

120.000 km

3 orbits of the earth – Auerhammer's metal foil experience

From earth to space and back

Customers from various industries use Auerhammer's ultra-thin metal foils

AUERHAMMER FOIL:
UP TO 0.002 mm THIN

HUMAN HAIR:
0.04 mm THIN



Product Portfolio – Metal Foils



THICKNESS TOLERANCES IN THE NANO RANGE!

Available Materials Precision Metal Foils

(Pure Metals & Alloys)

28

Ni

Nickel

29

Cu

Copper

22

Ti

Titanium

47

Ag

Silver

73

Ta

Tantalum

46

Pd

Palladium

41

Nb

Niobium

4

Be

Beryllium

Stainless steel

Other
materials
upon request.

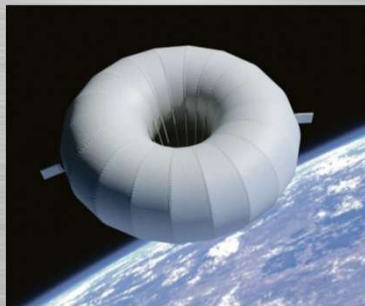
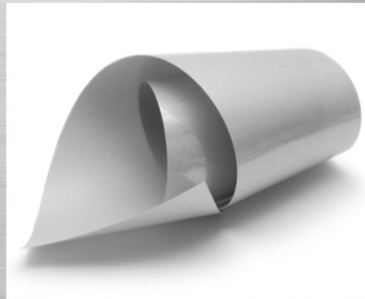
Available Dimensions Precision Metal Foils

Thickness 0.002 – 0.1 mm

Width 1.0 – 110.0 / 340.0 mm

Other
dimensions
upon request.

Metal Foils – Applications



Battery
Industry

Solid-State-
Battery

Stainless
Steel

Energy
Industry

Soldering
Foil

Ag-Alloys

Aerospace
Industry

Return
Capsule

Ni-Cr-Alloys

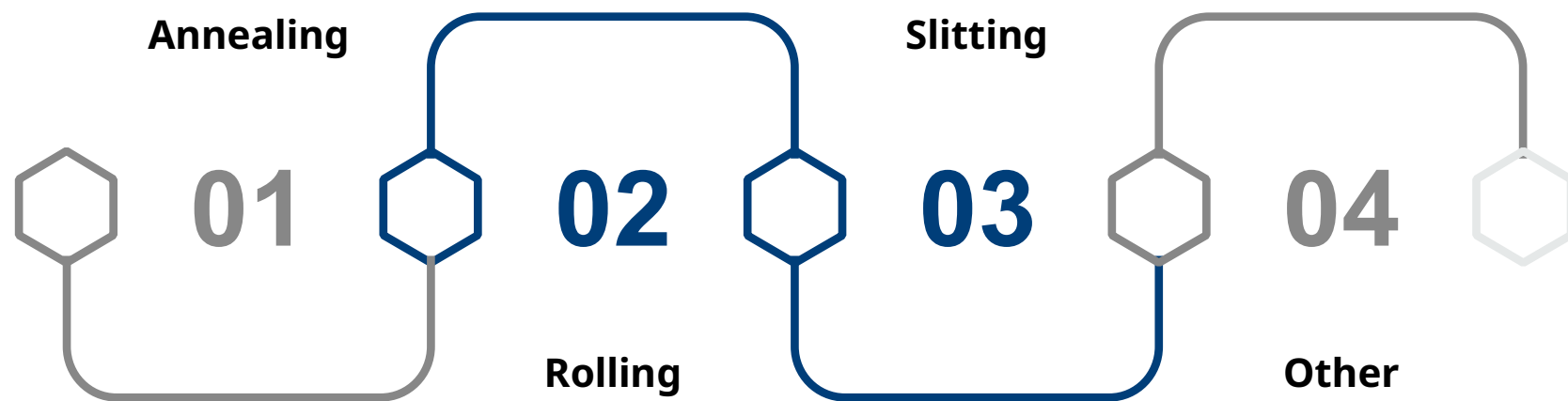
Toll Processing – We are your partner for precision services!



Product Portfolio – Toll Processing



WE FOR YOU!



Precision services across all production steps – Tailored to your needs!

Auerhammer's Quality Assurance

COMPREHENSIVE MATERIAL DIAGNOSTICS FOR HIGHEST QUALITY

Geometric

- ✓ Thickness
- ✓ Width
- ✓ Sabre shape
- ✓ Transverse curvature
- ✓ Longitudinal curvature
- ✓ Waviness
- ✓ Transverse/longitudinal profile
- ✓ Burr height
- ✓ Edge radius
- ✓ Layer thickness
- ✓ Surface profile / Roughness
- ✓ Gloss level measurement

Mechanical

- ✓ Tensile strength
- ✓ Yield strength
- ✓ Elongation at break
- ✓ Elastic modulus
- ✓ Uniform elongation
- ✓ Hardness (Vickers, Rockwell, Brinell)
- ✓ Earliness / Ear height according to ERICHSEN
- ✓ Depending on cupping test according to ERICHSEN
- ✓ Twisting test / Torsion test
- ✓ Bending test (various radii)
- ✓ Adhesion test
- ✓ Buckling value test

Physical

- ✓ Specific thermal curvature
- ✓ Specific thermal deflection
- ✓ Specific resistance
- ✓ Meter resistance
- ✓ Conductivity
- ✓ Coefficient of linear expansion
- ✓ Curie temperature measurement
- ✓ Soft magnetism DC/AC (permeability, coercive field strength, remanence, induction)
- ✓ Soldering test

Metallography / Micro- & Macroscopy

- ✓ Grain size
- ✓ Structure unit
- ✓ Layer thickness
- ✓ Surface defect depth
- ✓ Phase proportions
REM / EDX / EBSD



In addition to internal quality testing, we offer reliable, tailored material diagnostics for our partners.

Auerhammer's Research & Development

DRIVING INNOVATION TOGETHER

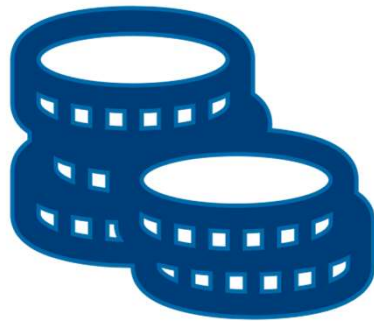
– PARTNERING WITH SAXONY'S LEADING UNIVERSITIES & INDUSTRY NETWORKS



Auerhammer's Investments

BUILDING THE FUTURE: INVESTING IN PROGRESS AND INNOVATION

> € 4,000,000



TOP 3

1

New slitting line for thin metal strips < 30 µm

2

End-to-end process engineering

3

Photovoltaic system

Quality Management System

PRODUCT SECURITY THROUGH ISO 9001 CERTIFIED QUALITY PROCESSES

Our Quality Goals



OUR COMMITMENT TO FUTURE GENERATIONS

Health & Safety

Strict standards guarantee low-emission products and safe handling of materials

Conservation of Resources

Efficient use of raw materials and 100% recycling of technological waste & scrap



Energy from Green Sources

We rely on certified electricity from renewable energies

High-Quality & Long-Lasting Products

Long-lasting products reduce our environmental pollution

Energy Efficiency

Continuous improvement of energy efficiency through strategic and operative energy targets in accordance to ISO 50001



Wickeder Group

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best of metal