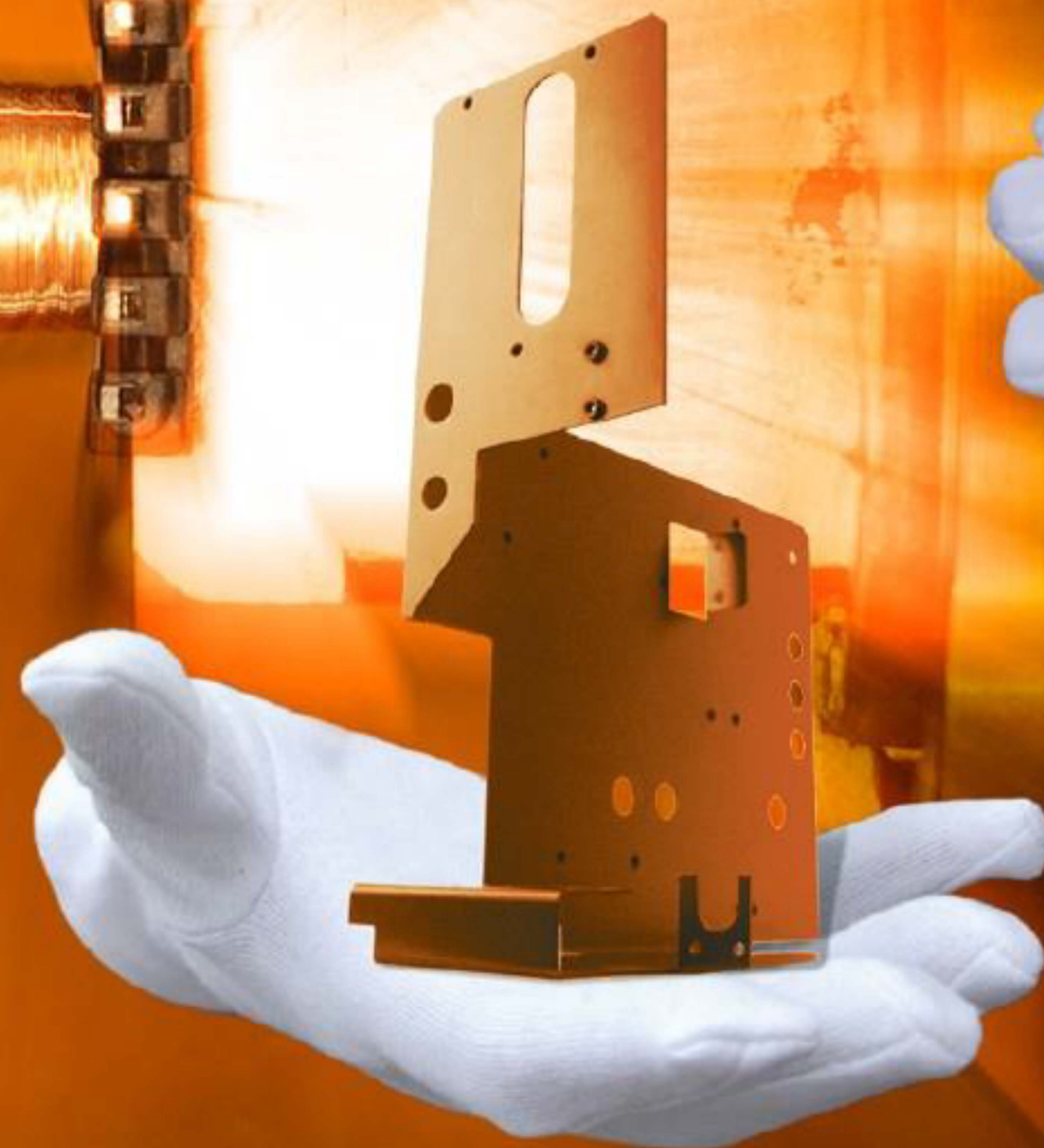
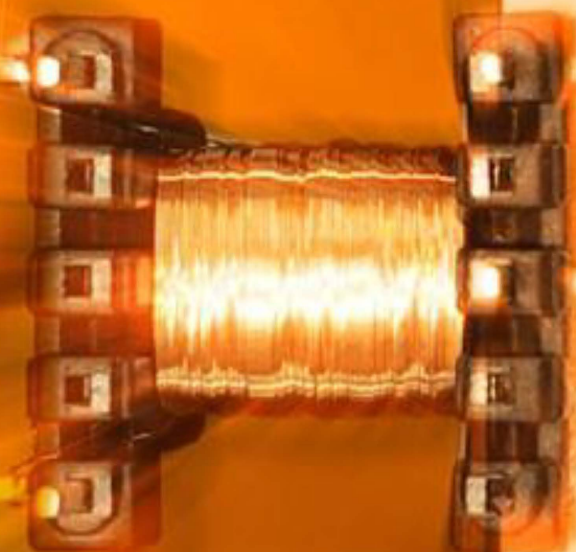
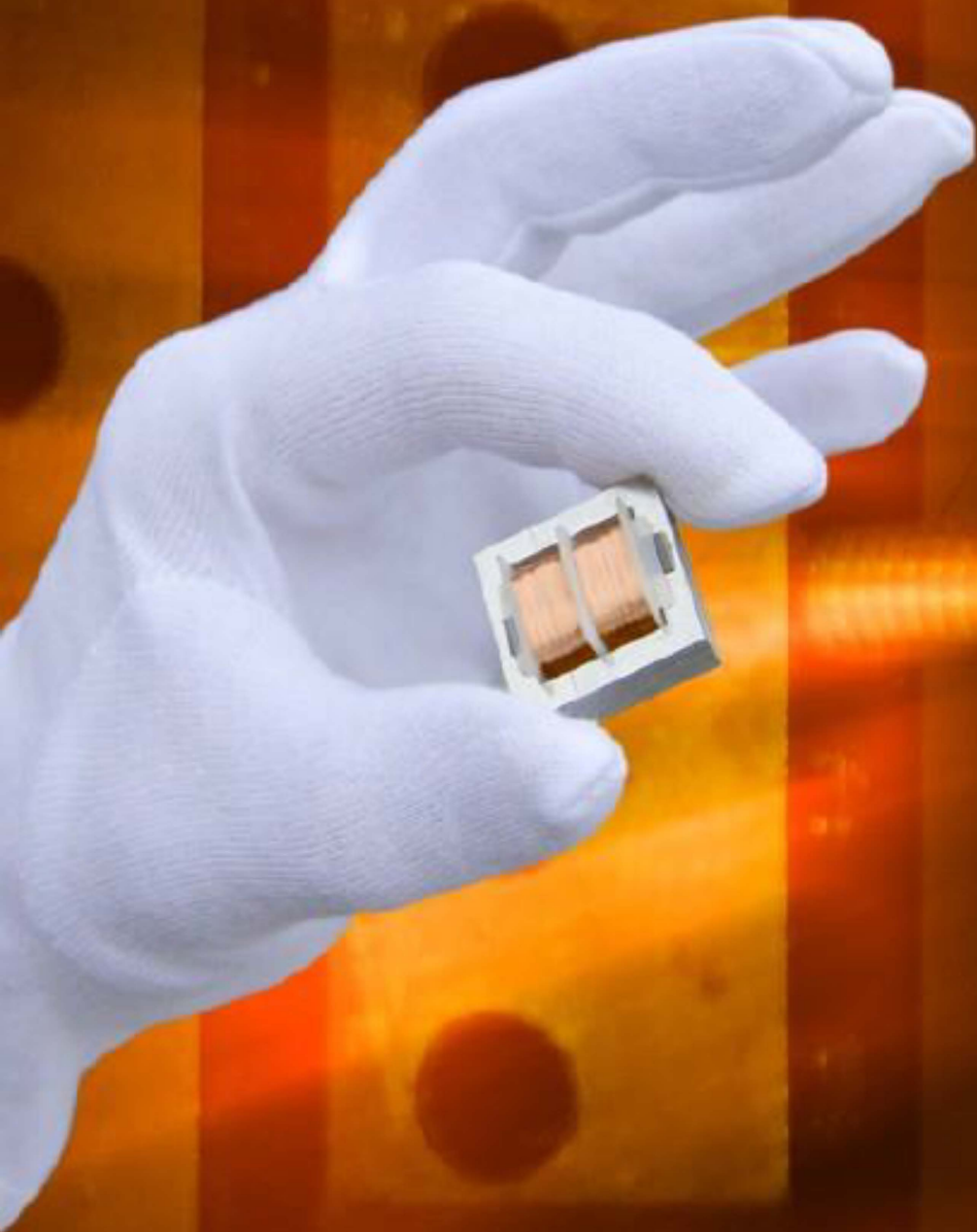


PRECISION
FOR YOUR
SUCCESS!





We won't leave
YOU
out in the
RAIN!

... since
1947

WELCOME

to



HAUFE®

„PRECISION FOR YOUR SUCCESS“

... SINCE 1947



Over 75 years of experience in the field of communication technology for quality-relevant applications.

HEADQUARTERS in
USINGEN
HESSE

since 1947

ISO 9001:2015



HAUFE[®]
„PRECISION FOR YOUR SUCCESS“
... SINCE 1947

BEIERFELD
PLANT in SAXONY

since 1991

ISO 9001:2015
ISO 14001:2015

MAGNETIC SHIELDS
INDUCTANCE

SHEET METAL
PROCESSING



HAUFE®
„PRECISION FOR YOUR SUCCESS“
... SINCE 1947

Sheet metal processing

Electronics manufacturing

Power supplies

Inductances

Magnetic shields

Plastic processing

Mechanical and
equipment engineering

Electric drive systems



STEMAS
Wir Unternehmen Mittelstand

**PART of
STEMAS GROUP**

since 2016

**Through intensive collaboration,
synergies are created to optimally
realize customer projects.
Our project management ensures
that all competencies complement
each other effectively.**

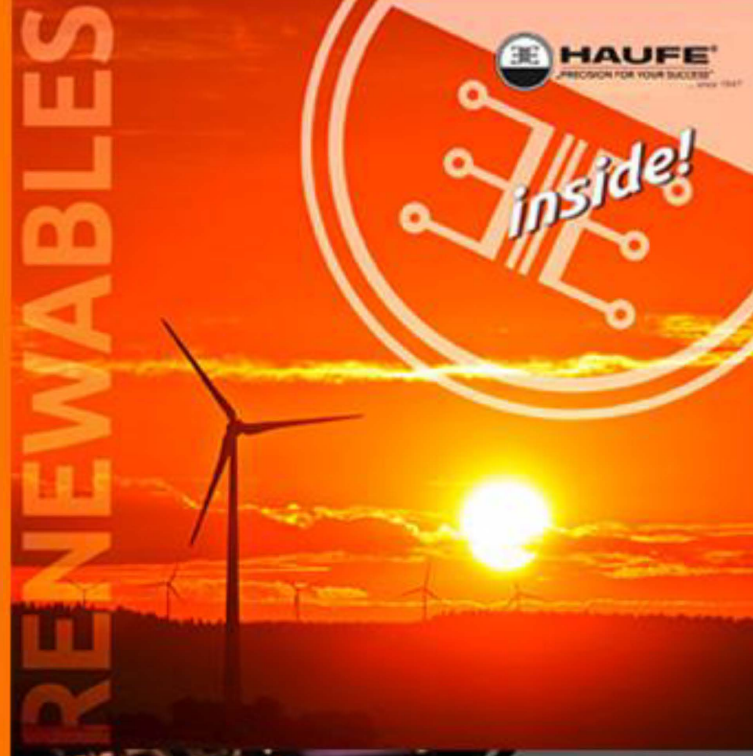
AUTOMATION



AVIATION



RENEWABLES



AVIATION



EVENT-TECH



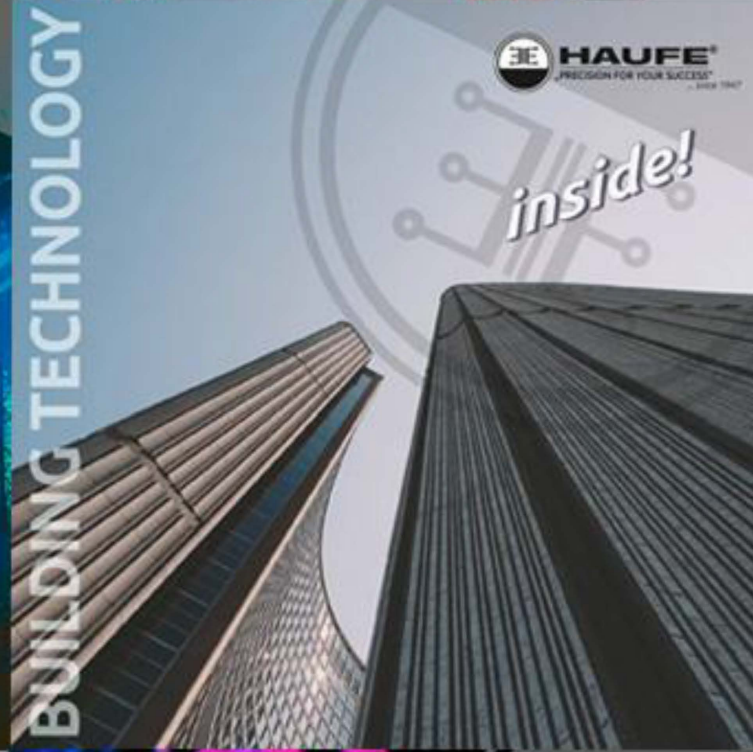
RAILWAY



EVENTTECHNIK



BUILDING TECHNOLOGY



CINBOARD
RADIO



AUDIO



DEFENSE



MEDICAL



PUBLIC TRANSPORT



INDUSTRY



WELDING



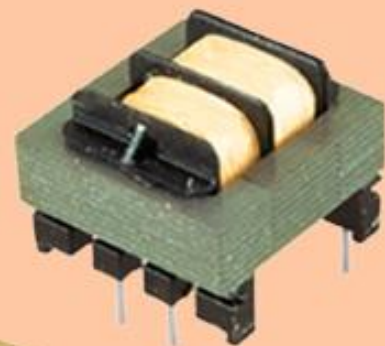


With the development of over 33,000 different types, we have documentation available that serves as the basis for your quasi modified standard solution, saving you half of the effort!

100% tested HAUFE quality
Optical & Metrological



- Power: 0.5 W - 400W (toroidal core)
- Frequency: 50 (60), 400Hz
- Voltage withstand capability: up to 6 kV



DESIGNS

- Toroidal core
- Laminated core
- Printed board/pluggable
- Free ends
- Copper, aluminum, plastic
- Soldering lugs
- Mounting hood/cover



Small, medium,
large-scale production
(including Eastern
Europe or Asia)

- Highly variable translation ratio
- Up to 0.05% harmonic distortion
- Up to 0.05 dB linearity
- 20 Hz - 20 kHz frequency range
- Up to 60 dB symmetry



DESIGNS

- Toroidal core
- SMD (Surface Mount Device)
- Printed board/pluggable
- Free ends
- Copper, Aluminum, Plastic
- Mounting hood/cover

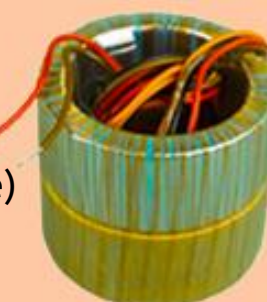


- Rated power - up to 10 kVA
- Inductance - freely selectable
- Current - up to 1 kA
- Frequency - 50 Hz to 1 MHz
- Voltage withstand capability - up to 6 kV

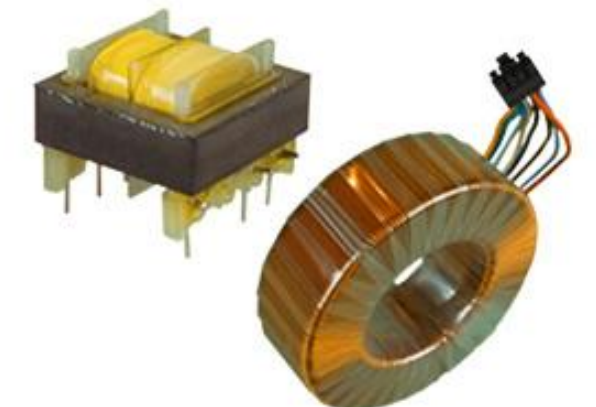


DESIGNS

- Toroidal core
- Rod core
- Air coil
- Printed board/pluggable
- freie Enden (Free ends)
- Copper, Aluminum, Plastic
- SMD (Surface Mount Device)
- Mounting hood/cover



- Highly variable translation ratio
- Up to 0.05% harmonic distortion
- Up to 0.05dB linearity
- 20 Hz - 200 kHz frequency range
- 100 V - 5 kV voltage withstand capability



DESIGNS

- Ring core
- Print/pluggable
- Free ends
- MA, aluminum, plastic
- Mounting cover



AC/DC DC/DC



Inductors and sheet metal enclosures are the core components of every power supply. Now, the AC/AC tradition transitions into a new era with the finest DC/DC converters and AC/DC power supplies, utilizing HAUFE's expertise!



**IPC
PSU**



**MEDICAL
PSU**



**OPEN
FRAME
SV**



DIN RAIL

**LED-
DRIVER**



ADAPTER



**POWER-
INVERTER**

USV



CHARGER



POWER SUPPLIES

STANDARD:

- Access to thousands of off-the-shelf solutions of our partner FSP with the best possible price/performance ratio.

MODIFIED STANDARD:

- Cold-plate? Plastic housing design? Sheet metal? Mounting and fixing devices? Different performance specifications? No problem, we can customize existing components to meet your needs!

Or in the traditional custom tradition:

CUSTOM DEVELOPMENTS:

- Requirements and specifications • EMC tests • Other tests • Cold-plate manufacturing (if required with water cooling) • Special mounting and/or fixing devices
- Special magnetic shielding products • Technical datasheets

ASSEMBLY SERVICE AND CUSTOMIZATION

PERFORMANCE: up to 100 kW (modular)

CONFIGURATIONS, FOR EXAMPLE:

- Open and closed • DIN rail
- Desktop and plug-in power supplies • 19" rack-mounted power supplies
- Industrial, medical, and railway technology

CERTIFICATIONS:

- TÜV, UL, CE, etc.

Selected quality of the in-house
"H-SERIES" by HAUFE:

PERFORMANCE:

- 0.25 watts to 255 watts,
- Isolated and non-isolated versions (e.g., "POL"/Point of Load)

PACKAGE:

- SIP, DIP, SMD, 1/4, 1/2, and full-brick

APPLICATIONS: (e.g.):

- Industrial, medical, and railway technology

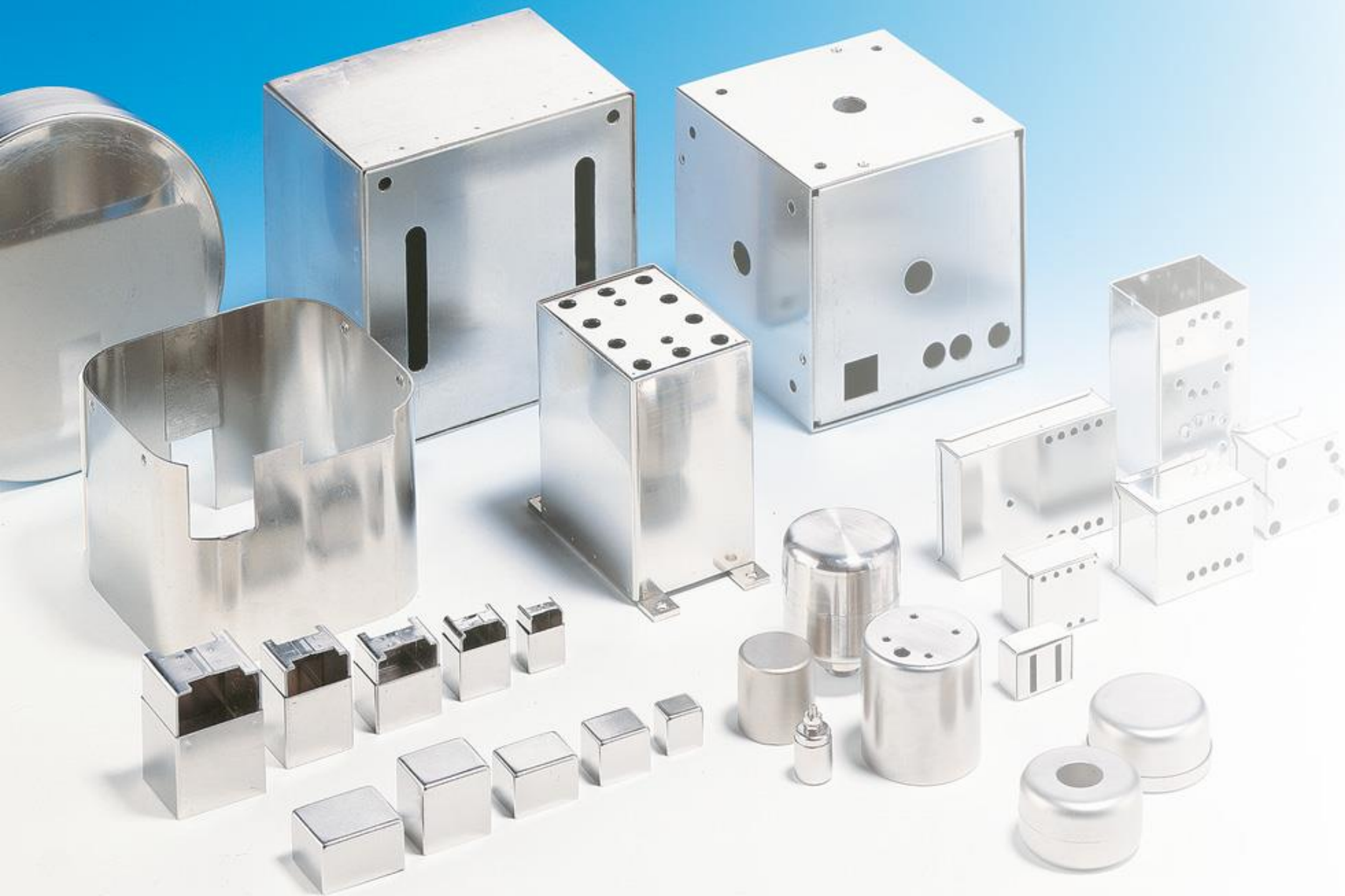
CERTIFICATIONS:

- TÜV, UL, CE, etc.

**H-SERIES
DC/DC-Converter**



THE SCIENCE OF METALS AND ELECTROMAGNETIC FIELDS



Also, and especially, electromagnetic shielding is part of our sophisticated product range.

Anyone who thinks that magnetic shielding is just a piece of sheet metal is mistaken. Material and design, tailored to the components to be shielded, are complex parameters of an effective composition. That is why the field of magnetic shielding is also located in our Inductors Competence Center in Usingen.

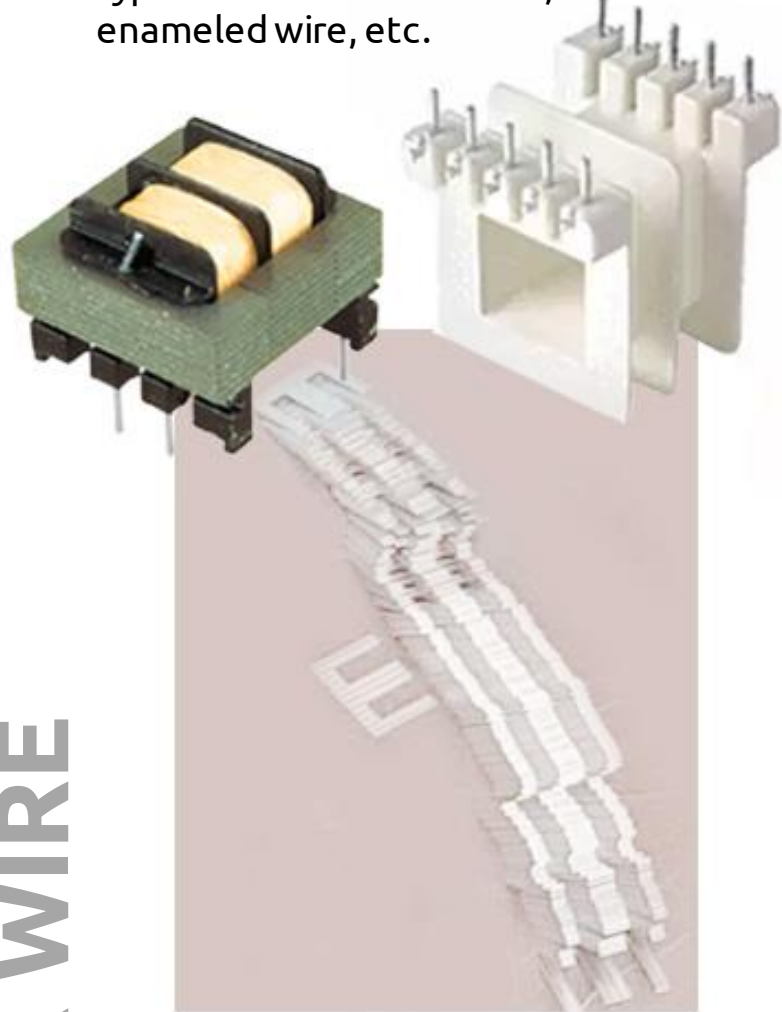




- Diameter ranging from 12.5mm to 90mm
- Wire thicknesses from 0.025mm to 2mm can be processed
- Ferrite cores (with steep saturation behavior)
- Iron, cobalt, nickel powdered cores (high saturation inductions with a soft saturation characteristic)
- Ribbon made of iron-nickel alloy

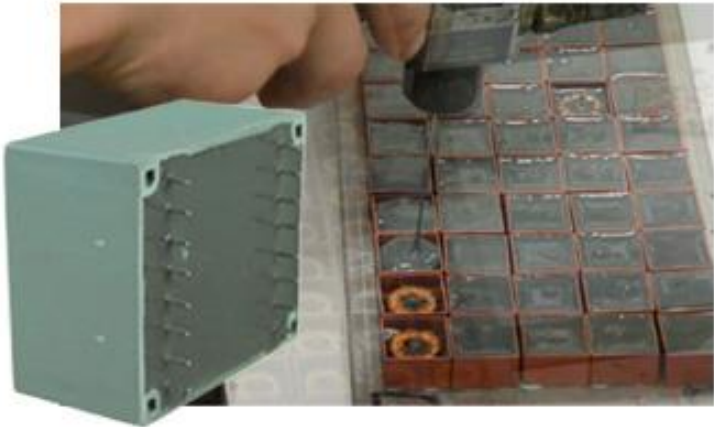
COIL FORMERS, CORE LAMINATIONS
& WIRE

- In-house production of E-core material
- Coil formers: Utilization of standard designs and custom designs when needed
- Wire thicknesses ranging from 0.025mm to 1mm can be processed
- Types of wire: Enamel wire, double-enameled wire, etc.



E8-E30	ER9,5-ER14,5
P9-P36	ETD29-ETD59
EE10-EE32	L20-L30
EFD15-EFD30	M20-M102
EI30-EI120	RM4-RM14
EP7-EP20	UI17-UI90

POTTING & IMPREGNATION



Encapsulation and Hardener:

- Voltacast 3110 robust encapsulation material
- Elantron MC 4682 flexible encapsulant – advantageous, e.g., in vibration exposure
- Impregnating varnish Elmotherm FS190
- Vacuum encapsulation and impregnation

CLIMATIC CHAMBER
(ENVIRONMENTAL SIMULATION CHAMBER)

- Reliability testing for critical application conditions
- 70°C – +180°C





PERFORMANCE PROFILE USINGEN



HAUFE®
„PRECISION FOR YOUR SUCCESS“
... SINCE 1947



- Assembly
- Mounting
- Testing
- Time-critical implementation is not a problem thanks to capacity flexibility!



- Save yourself the time of searching for suitable components - we will find what you need. From resistors to kW power supplies!
- We have access to thousands of components from top manufacturers.
- We are independent and have our own manufacturing capacities!
- Our sample service and sourcing: Best conditions and fast!
- Focus on your core competence, HAUFE realizes your ideas!
- Complete assembly manufacturing: Samples and series. Assembly, EMC testing, inspections!
- We source discontinued components or manufacture them, such as the development and production of coil body injection molds, and of course, production up to the finished component.



COIL WINDING MACHINES

METEOR PRA-SERIES

- High throughput achieved through automation
- Holders for various types of coil bodies already available
- Wire thicknesses ranging from 0.025mm to 0.50mm
- 2 tin-plating automated carousels (lead-free and leaded separated locally)
- Lean Production Process



TORIDAL CORE WINDING

PERFORMANCE PROFILE
USINGEN



HAUFE®
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... SINCE 1947

RUFF-SERIES V&C-SERIES

- Manufacturing of custom toroidal core inductors
- Holders for atypes of toroidal cores already available
- Wire thicknesses up to 2.0mm
- Tin-plating stations (lead-free and leaded separated locally)
- Lean Production Process

IWT FW-SERIES
METEOR M-SERIES

- Used in specific precision models
- Holders for various types of coil bodies already available
- Wire thicknesses ranging from 0.025mm to 1.0mm
- Tin-plating stations (lead-free and leaded separated locally)
- Lean Production Process

SPECIAL INDUCTORS

020
line



PERFORMANCE PROFILE
USINGEN



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**TURNING, MILLING,
PUNCHING, DEEP DRAWING ...**
... DRILLING, SPOT WELDING, BENDING, CUTTING, ETC.

MECHANICS

- Production of E-core laminations
- Manufacturing of magnetic shields
- Processing of metal and plastic housings (e.g., trimming, roughening, ultrasonic cleaning...)
- Tool manufacturing

SHAPED BY EXPERIENCE

SHEET METALL SCULPTURES

FROM DESIGN TO DESIRE

Housings, front panels, chassis, and everything that can be manufactured from metals such as aluminum, stainless steel, or steel are our passion!





FOLDING/BENDING



FORMATS:

- 2500 x 1250mm
- Bending length: 2000mm

PUNCHING



LABELING & PRINTING:

- Laser marking
- Pad printing
- Screen printing
- Transfer printing



STATE OF THE ART
LASER EQUIPMENT



PLANNING, DESIGN & CNC Control:

- "Autodesk Inventor" 3D CAD/CAM system
- DXF,
- STEP,
- IGES,
- DWG,
- IDW

MATERIAL THICKNESSES

- | | |
|------------------------|---------|
| • Aluminium | 0.5-5mm |
| • Steel | 0.5-3mm |
| • Stainless steel | 0.5-2mm |
| • Tinplate (white tin) | 0.3-1mm |

PROCESSING METHODS:

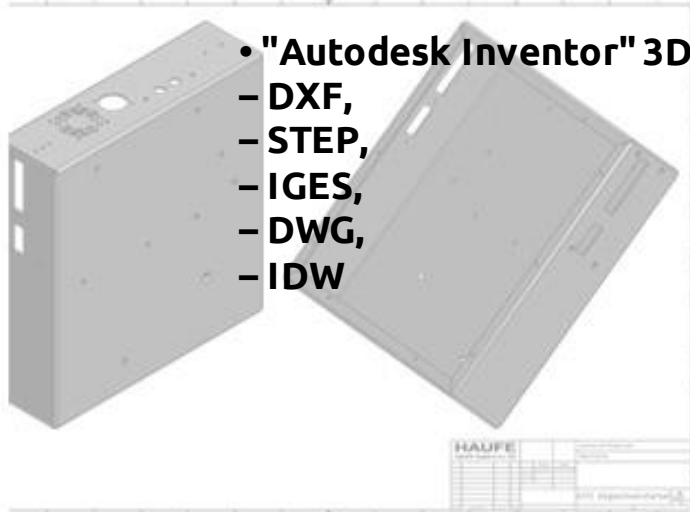
- CNC-controlled
 - Nibbling machines
 - Punching machines
 - Bending machines
- Press-fitting machine

SURFACE FINISHING

- Powder coating
- Chromate conversion coating
- Nickel plating
- Anodizing
- Painting
- Partial laser surface treatment

SERVICES:

- 100% HAUFE quality check
- Assembly and adhesive work
- Welding and grinding



Thank you !

CONTACT :

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EMEA Sales Director

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www.haufe-uebertrager.de

spoken languages:

 Deutsch  Englisch  Spanisch  Türkisch