

INDUCTIVE COMPONENTS COVERING MEDIUM AND HIGH FREQUENCY RANGE

About Block / Production area / Production techniques / Products



kHz

ABOUT BLOCK



General Manager Udo Leonhard Thiel,

is a trained radio and television technician, holds a Dipl.-Ing. in electrical engineering, and is a director of BLOCK Transformatoren-Elektronik GmbH. He is responsible for the Research and Development department.

„It's about optimising existing products and developing new ones.“



General Manager Jörg Reichelt,

is a master electrician and volunteers as a judge in labour and commercial tribunals. He is a director of BLOCK Transformatoren-Elektronik GmbH and is in charge of Production and Materials Management.

„Efficient production facilities ensure short production times and quick delivery.“



CEO Wolfgang Reichelt,

is a master radio and television technician, telecommunications engineer and president of the Lower Saxony/Bremen branch of the ZVEI (German central association for electrical engineering and the electronics industry). He holds a large number of voluntary posts and is chair of the management team and CEO of BLOCK Transformatoren-Elektronik GmbH.

„The future still looks bright, and we're ready to face it!“

Headquarter
Verden, Germany



WE DEVOTE ALL OUR ENERGY
TO EVERY BLOCK PRODUCT.
DISCOVER THE BLOCK PHILOSOPHY

FOUNDED IN

1939

A FAMILY BUSINESS
EVER SINCE

700

EMPLOYEES
AT THE VERDEN SITE

80%

OF BLOCK'S TURNOVER
IS CREATED BY CUSTOMIZED
DEVELOPED PRODUCTS

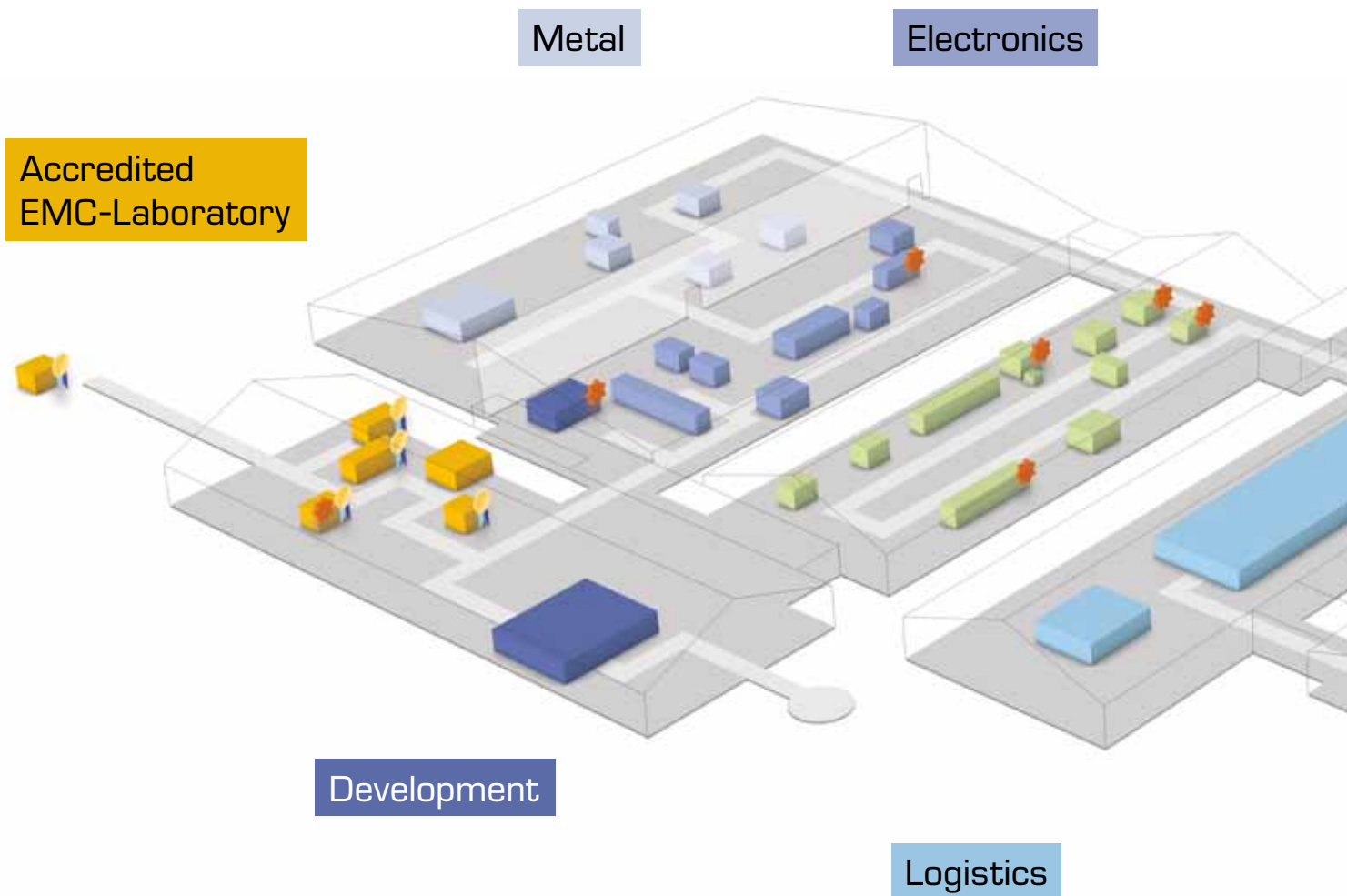
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MILLION EURO
TURNOVER IN 2012

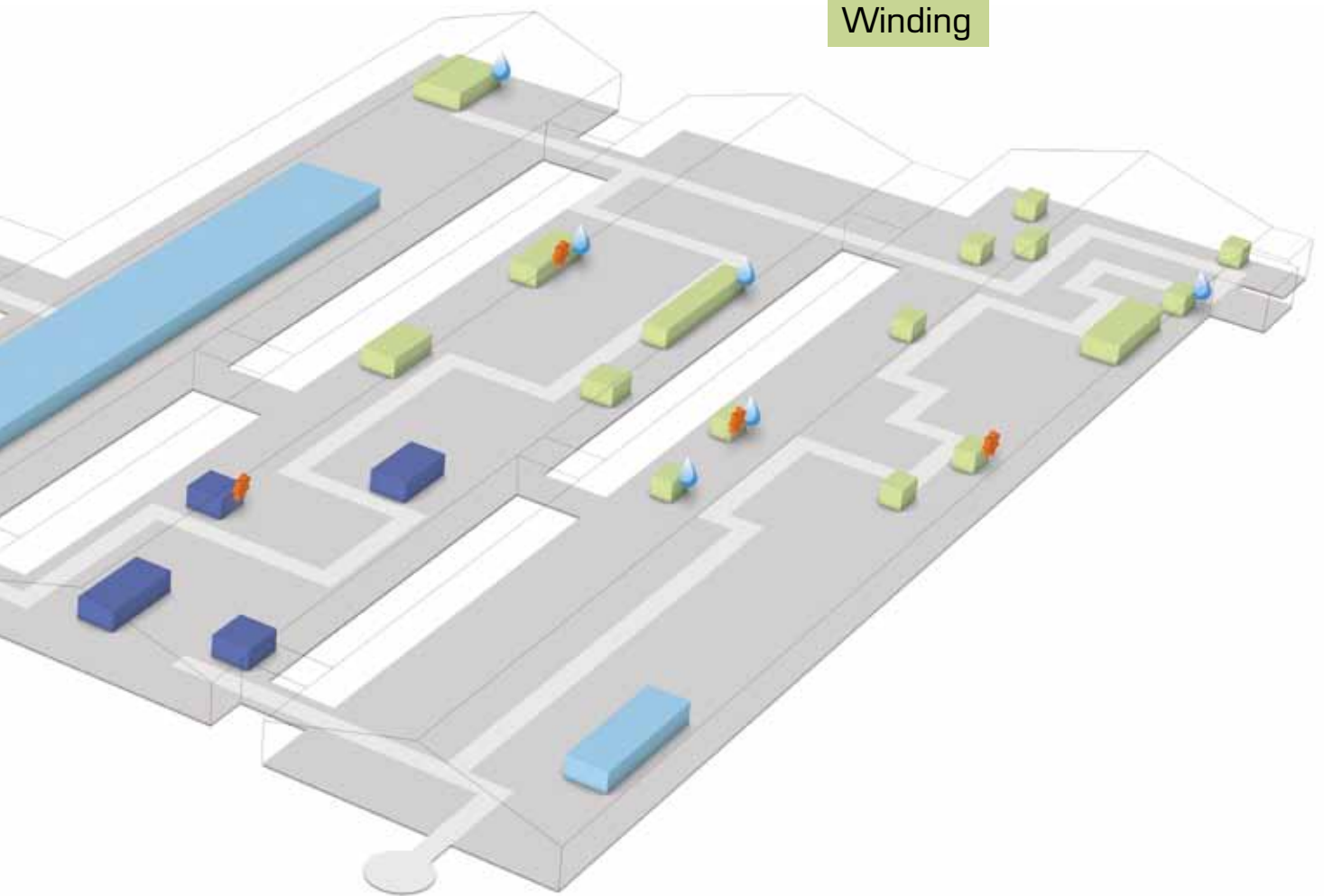
Inductive components covering medium and high frequency range

PRODUCTION AREA

OVER 270,000 FT² PRODUCTION AREA

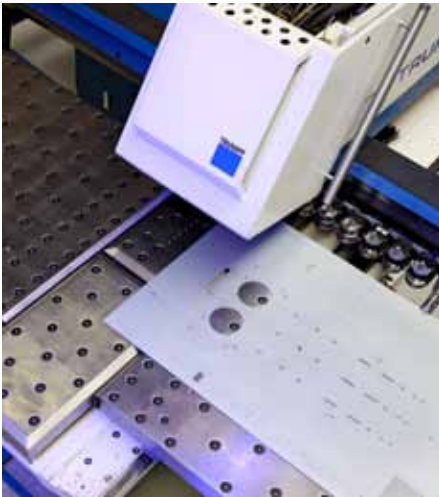


Winding



PRODUCTION TECHNIQUES

DEVELOPMENT, PRODUCTION, TEST SYSTEMS, LOGISTICS



PUNCH NIBBLING



CRT



SMD ASSEMBLY



LIQUID COOLING
TEST STAND



LOADING BAY



SHOCK AND
VIBRATION TEST

**EVERYTHING MADE BY BLOCK
UNDER ONE ROOF FROM A SINGLE SUPPLIER.**



FULLY AUTOMATIC
TRANSFORMER
PRODUCTION



WAREHOUSE



VACUUM PRESSURE
EQUIPMENT



FUNDAMENTAL
RESEARCH



HIGH VOLTAGE TEST AND
PARTIAL DISCHARGE
MEASUREMENT
UP TO 100 KV



LINEAR PRODUCTION
REACTORS

PRODUCTS

Railway Technology

Medium-frequency transformer

Weather resistant medium frequency transformer in compact, light construction for increased climatic impact. extreme temperature changes, high humidity, high output load, long life.

Special requirements

- > Low weight
- > Useful life 30 years
- > Fire protection:
DIN 5510; NF F16-101/102; EN 45545
- > Rated insulation voltage 2 kV,
partial discharge-free
- > Watertight

Technical data

Power:	110 kW
Input voltage:	650 V
Output voltage:	700 V / 130 V
Frequency:	8 kHz



Railway Technology

Medium-frequency transformer

Special requirements

- > Low weight
- > Useful life 30 years
- > Fire protection:
DIN 5510; NF F16-101/102; EN 45545
- > Rated insulation voltage 4 kV,
partial discharge-free

Technical data

Power:	30 kW
Input voltage:	650 V
Output voltage:	2 x 400 V
Frequency:	8 kHz



When it comes to inductive components you will find BLOCK an efficient partner. The smallest batches or large-scale production are our strength. Alongside product performance in the smallest spaces and precision workmanship, the following market requirements are also increasing:

- › Environmental sustainability
- › Recyclable
- › The latest quality standards
- › EMC guidelines

Solar Technology

Line reactors

for solar inverters

Special requirements

- › High efficiency
- › Special construction for mounting in IP54 housing in IP54 housing

Technical data

Inductance:	0.8 mH
Rated current:	60 A
Ripple:	16 Hz / 8 A



Automotive

Active Front-End-Reactor

Special requirements

- › Cooling via water cooled Plates
- › Low weight
- › Small size

Technical data

Inductance:	0,7 mH
Rated current:	32 A
Frequency:	12 kHz



PRODUCTS

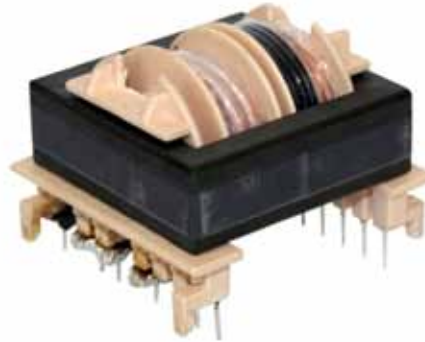
SMPS transformers

Resonant converter

Specially developed by BLOCK bobbin with multi-section structure to realize a certain leakage inductance

Technical data

Power:	300 W
Input voltage:	400 V
Output voltage:	24 V / 13 A
Main inductivity:	490 mH
Leakage inductivity:	90 mH
Core:	ETD44



SMPS transformers General information



- > Power up to 2000 W
- > Input voltages up to 1000 V
- > Output voltages up to 1000 V
- > Frequencies up to 300 kHz
- > Core forms E, ETD, EFD, PQ etc.
- > UL-insulating system Class B, Class F

BLOCK experience

BLOCK has been developing and producing components for industry for a long time. Particularly in the field of inductive components, we have produced a wide range of customer-specific product innovations:

- > Drive transformers
- > Backlight transformers
- > Forward converter transformers
- > RFI chokes
- > Push-pull transformers
- > Half-bridge transformers
- > High-voltage transformers
- > Series inductors
- > Iron powder core chokes
- > PFC reactors
- > SMPS transformers
- > Storage reactors
- > Flyback transformers
- > Current-compensated chokes up to 320 A
- > Current sensors
- > Current converters
- > TinySwitch transformers
- > TOPSwitch transformers
- > Full-bridge transformers

Wind Power

Transformer/Reactor Combination

Compact size by liquid cooling

Special requirements

- › Reactor and transformer in a compact, light construction for minimal wiring.
- › Minimised construction volume about, ca. 30% and wiring requirement about ca. 15%
- › Reactor with a defined uk of 8%

Technical data

Input voltage:	3 x 660V
Output voltage:	3 x 480V
Transformer output:	200kVA



Test Equipment

High-voltage transformer

For the generation of a test voltage

Technical data

Power:	300W
Input voltage:	25V
Output voltage:	10kV
Output current:	30mA
Frequency:	20kHz



What can we
develop for you?

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