

- Competent ▪
- Experienced ▪
- Solution-oriented ▪

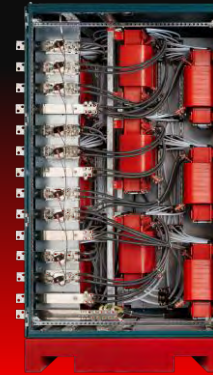
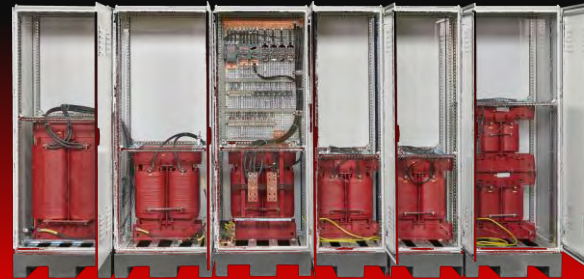
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Transformers  
 Filter ▪ Chokes  
 Customized solutions



A Phoenix Mecano Company



We offer our transformers as one-phase and three-phase in every possible version.

These include e.g.:

- High-Current Transformers
- Supply Transformers
- Scattering Transformers
- Matching Transformers
- Isolating Transformers
- Power Transformers
- Control Transformers
- Cast Resin Transformers
- Starting Transformers
- Toroidal Core Transformers

Our Know-how und product range include, inter alia, also further inductive components.

For example:

- Power Chokes
- Smoothing Chokes
- Compensation Chokes
- Suction Circuit Chokes
- Commutation Chokes
- Air-Core Coils
- Inductance Capacitance Coupling
- Motor Chokes
- Sinusoidal Filters

Field of applications, e.g.:

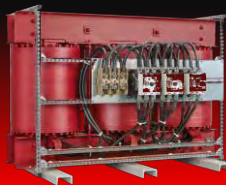
- E-Mobility
- Wind and solar energy
- Mining, conveying system
- Shipbuilding/marine equipm.
- Energy supply / Data center
- Automotive/plant engineering
- Reactive power compensation
- Airport technology
- Machine tool industry
- Medical technology
- Building technology
- Rail system / infrastructure
- Crane systems

We can offer and customize our winding goods as air-cooled (AN) or forced-air cooled (AF), with direct or indirect water-cooling (WF), in copper and/or aluminium, as pure single product, in housing/control cabinet incl. ventilation, and with switching-/safety mechanism. The production and testing takes place in accordance with national/international standards and regulations as well as with the focus on an economically optimized solution.

With its decades of experience as a developer and manufacturer of high-quality winding products, ISMET successfully operates in international markets. Our customers value us as a competent and reliable supplier when it comes to realizing special, customer-specific requirements and solutions. Our product range extends from performances ranging from a few VA to the MVA sector, from individual items to large-scale production, from pure winding material to complete solutions in the control cabinet. For common applications, we have also developed versatile types of transformers, chokes and filters, which we can offer at short notice or as catalog and stock items individually or in large quantities. ISMET produces in Germany, the Czech Republic, China and India.

▪ du/dt- Filters





Single-phase transformers		Nominal Output	Max. U <sub>pri</sub>	Max. U <sub>sec</sub>
Power transformer	NET	22-3500 VA	0..400 V	24..230 V
Control-transformer	NET-ST	205-6200 VA	0..400 V	24..230 V
Control-isolating transformer	CSTN	35-3000 VA	230..500 V	50..230 V
Control-safety transformer	CSTN	35-3000 VA	230..500 V	< 50 V
Isolating-safety transformer	CSTN	35-80 VA	230..500 V	24..230 V
Isolating transformer	MTSN-G	22-1000 VA	230..500 V	50..230 V
Safety transformer	MTSN-G	22-1000 VA	230..500 V	< 50 V
Control transformer	ISTK	2000-6300 VA	230..500 V	12..230 V
Universal control transformer	ISTU	100-2500 VA	200..560 V	21..230 V
	ISTUK	1000-2500 VA	200..560 V	21..230 V
Power transformer	ESTK	4,0-10,0 kVA	400..460 V	115..230 V
	KAWN	1,6-16,0 kVA	230..500 V	115..230 V
Isolating transformer	ESTK	4,0-10,0 kVA	400..460 V	115..230 V
	KAWN	1,6-16,0 kVA	230..500 V	115..230 V
Safety transformer	ESTK	4,0-10,0 kVA	400..460 V	< 50 V
	KAWN / KAWN-G	1,6-16,0 kVA	230..500 V	< 50 V
Adapting transformers	KAW / KAW-G	20,0-70,0 kVA	230..500 V	115..440 V
Adapting-isolating transformer	KAW / KAW-G	20,0-70,0 kVA	230..500 V	115..440 V
Power transformer	KLWN / KLWN-G	1,6-16,0 kVA	230..500 V	115..440 V
Power-isolating transformer	KLWN / KLWN-G	1,6-16,0 kVA	230..500 V	115..440 V
Power-safety transformer	KLWN / KLWN-G	1,6-16,0 kVA	230..500 V	< 50 V
Multivoltage transformer	IMS		115..400 V	1..500 V
Toroidal core transformer	RKO / RKVG / RKM	25-5000 VA	230 V	24..230 V
Toroidal core-isolating transformer	RKO / RKVG / RKM	25-5000 VA	230 V	50..230 V
Toroidal core-safety transformer	RKO / RKVG / RKM	25-5000 VA	230 V	< 50 V
Step transformer	SSTE / SSTE-G		230 V	80..230 V
2 x Step transformer	SSTD / SSTD-G		400 V	80..400 V

Three-phase transformers		Nominal output	Max. U <sub>pri</sub>	Max. U <sub>sec</sub>
Power transformer	DAWN /DAWN-G	0,16-30,0 kVA	400 V	400 V
Isolating transformer	DAWN /DAWN-G	0,16-30,0 kVA	400 V	50..400 V
Safety transformer	DAWN /DAWN-G	0,16-30,0 kVA	400 V	< 50 V
Power transformer	DAWN /DAWN-G	0,16-30,0 kVA	400 V	400 V
Autotransformer	DAWN-spar	2,0-250,0 kVA	200..600 V	400 V
Autotransformer	DAWN-G-spar	2,0-250,0 kVA	200..600 V	400 V
Power transformer	DAWT / DAWT-G	40,0-125,0 kVA	400 V	230..400 V
Power transformer	DAW / DAW-G	160,0-1000,0 kVA	400 V	230..400 V
Power transformers	DLWN / DLWN-G	0,16-25,0 kVA	400 V	230..400V
Isolating transformer	DLWN / DLWN-G	0,16-25,0 kVA	400 V	230..400V
Safety transformer	DLWN / DLWN-G	0,16-25,0 kVA	400 V	< 50 V
Power transformer	DLWN / DLWN-G	0,16-25,0 kVA	400 V	230..400V
Step transformer	DSST		400 V	120..400 V
Encapsulated-power transformer	DAWN-GV	1,0-15,0 kVA	400 V	400 V
Encapsulated-isolating transformer	DAWN-GV	1,0-15,0 kVA	400 V	50..400 V
Encapsulated-safety transformer	DAWN-GV	1,0-15,0 kVA	400 V	< 50 V

Chokes + filters	Max. U <sub>N</sub>	Max. I <sub>N</sub>	Inductance L	Frequency f <sub>N</sub>	Switching frequency f <sub>s</sub>
Smoothing choke	1100 V	3000 A	var.	300/360 Hz	1...20 kHz
Sinusoidal filter	690 V	2000 A	var.	800 Hz	1,5...16 kHz
Harmonic circuit filter reactors	690 V	63 A	var.	50/60 Hz	
Harmonic circuit filter reactors	400 V	7..92 A	var.	50 Hz	
Power choke	690 V	2000 A	var.	50/60 Hz	
Motor choke	690 V	2000 A	var.	500 Hz	1,5...8 kHz
du/dt-filter	690 V	2000 A	var.	500 Hz	1,5...8 kHz
Onecore-LCL-filter	690 V	1000 A	var.	500 Hz	1,5...16 kHz

**Product not mentioned? Further products in our catalogue available for download from [www.ismet.de/de/downloads](http://www.ismet.de/de/downloads), customized design or special versions upon request!**

Customized solutions	Utilization	Info
<b>Chokes</b>	<ul style="list-style-type: none"> <li>Current Limitation</li> <li>Converters</li> <li>Filters</li> <li>AC-/DC-Motors</li> <li>Rectifiers</li> <li>Coating Plants</li> </ul>	Complete range from very small up to a total choke weight of 6,0 t. Air cooled and forced air cooled, direct oder indirect water cooled. Open construction or with housing up to IP54.
	<b>Air-Core Coils</b>	<ul style="list-style-type: none"> <li>Current Limitation</li> <li>Magnetization</li> </ul>
<b>Coupling Inductances</b>	<ul style="list-style-type: none"> <li>Street Lighting</li> <li>Ripple Control Signal</li> </ul>	Three-phase inductance capacitance coupling of open design for parallel coupling. Voltage levels up to 36 kV.
<b>High-Current Transformers</b>	<ul style="list-style-type: none"> <li>Induction Furnaces</li> <li>Melting Furnaces</li> <li>Annealing Furnaces</li> <li>Galvanic Treatment</li> <li>Electronic Testing Equipment</li> </ul>	Nominal Output up to 2 MVA. Output current up to bis 15 kA. 1-/3-phase. Air cooling or direct/indirect water cooling. IP00 to IP54.
<b>High-Voltage Transformers</b>	<ul style="list-style-type: none"> <li>High-Performance Engines</li> <li>Ionisation Devices</li> </ul>	Nominal output up to 600 kVA. Input voltage up to 20 kV. Output voltage up to 15 kV. 1-/3-phase. Enclosure IP00 bis IP54.
<b>Supply Transformers</b>	<ul style="list-style-type: none"> <li>Mining</li> <li>On/Off shore conveyor systems</li> <li>Drilling Rills Auxiliary</li> <li>Construction sites</li> </ul>	Nominal output up to 2,0 MVA. Step up and step down. IP00 to IP65. Supply voltage up to 4160 VAC.
<b>Transformers for the supply of medical rooms</b>	<ul style="list-style-type: none"> <li>Medical Lighting</li> <li>Measuring equipment</li> <li>Diagnostic systems</li> <li>Monitoring equipment</li> </ul>	Nominal output up to 10 kVA. 1-/3-phase. Stationary or mobile use. Open or covered up to enclosure IP54.
<b>Cast Resin Transformers</b>	<ul style="list-style-type: none"> <li>Chemical Plants</li> <li>Track Building</li> <li>Textile Industry</li> </ul>	Nominal output up to 50 kVA. 1-/3-phase. Enclosure up to IP67. Safety class II. Test voltage up to 30 kV. Stationary and portable.
<b>Components and Complete Systems</b>	<ul style="list-style-type: none"> <li>Ventilators</li> <li>Testsystems</li> <li>Inverters</li> <li>Machine Tool</li> </ul>	Components and complete systems for R&D, functional test of motors, Inverters and cables up to 600 kVA.
<b>Transformers and chokes with forced cooling</b>	<ul style="list-style-type: none"> <li>Plant engineering</li> <li>Induction Furnaces</li> <li>Apparent Power Compensation</li> </ul>	Inductors and Transformers. 1-/3-phase. Forcled air cooling, direct/indirect water cooling. Rated power up to zu 3,0 MVA.

**Standard Version:**

- f = 50/60 Hz
- ta = 40°C/B/F
- „G“ = Housing
- Preperation safety class/II

**Upon Request:**

- Housing/(partial) encapsualtion/color
- Special voltages / versions
- Version as autotransformer
- Version in temperature class H

Construction/Testing in accordance with DIN EN 61558 / DIN EN 60076 / VDE 0570 / UL

