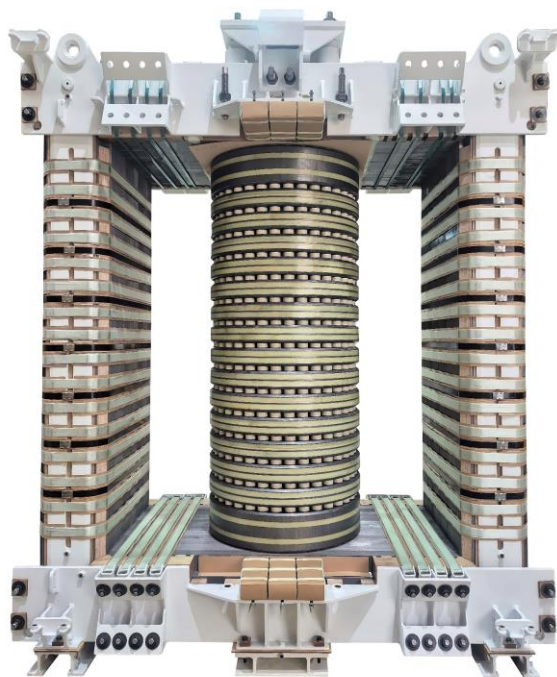


MKS

THE CORE BUSINESS
YOUR PARTNER IN CORE BUSINESS





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OUR PRODUCTS

- Magnetic cores for power transformers
- Magnetic cores for distribution transformers
- Shunt reactor cores
- Magnetic flux collectors
- Rectangular cores
- Toroidal core

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ABOUT US

MKS TRANSFORMER EQUIPMENTS A.S. is working under ISO 9001:2015 certification and international standards. Its premises are located in Sekerpinar Industrial Zone (Kocaeli) and include a 10.000 sqm. closed area. The machinery park consists of **slitting lines, cutting lines both for distribution and power transformer cores, fabrication lines for rectangular cores, toroidal cores, shunt reactor cores and magnetic flux collectors.**

Its main target is to serve the sector with high quality products and services. Currently, MKS TRANSFORMER EQUIPMENTS A.S. operates successfully on domestic and international markets and maintains its position in the sector as a respectable institution with its qualified personnel and high-quality products and services.

The company's philosophy is to create partnerships and be more effective in new markets in order to show its efficiency, reliability, and quality.



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REFERENCES

- GREEN TRANSFO ENERGY
- GENERAL ELECTRIC
- EATON
- SCHNEIDER ELECTRIC
- HITACHI ENERGY
- KOLEKTOR ETRA
- ASTOR ENERJI
- TEK TRANSFORMATOR
- ELTAS TRANSFORMATOR
- ARTECHE
- EUROPOWER ENERJI
- INDUCTOTHERM



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STOCK

We are supplying CRGO steel from reputable steel mills and we keep in stock various steel grades in order to fulfill customer's requirements.

The coils are rigorously checked and the only high-quality steel becomes part of the end products.

GRAIN ORIENTED ELECTRICAL STEEL		
Thickness (mm)	Maximum losses at 50 Hz.	
	Iron losses	Induction
0,20	0,65	1.7 Tesla
0,20 / 0,23	0,70	1.7 Tesla
0,23	0,75	1.7 Tesla
0,23	0,80	1.7 Tesla
0,23	0,85	1.7 Tesla
0,27	0,90	1.7 Tesla
0,27	0,95	1.7 Tesla
0,27	1,00	1.7 Tesla
0,27	1,05	1.7 Tesla
0,27	1,10	1.7 Tesla
0,27	1,20	1.7 Tesla
NON-ORIENTED ELECTRICAL STEEL		
Thickness (mm)	Maximum losses at 50 Hz.	
	Iron losses	Induction
0,35	0,30	1.5 Tesla
0,50	4,70	1.5 Tesla

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SLITTING LINES

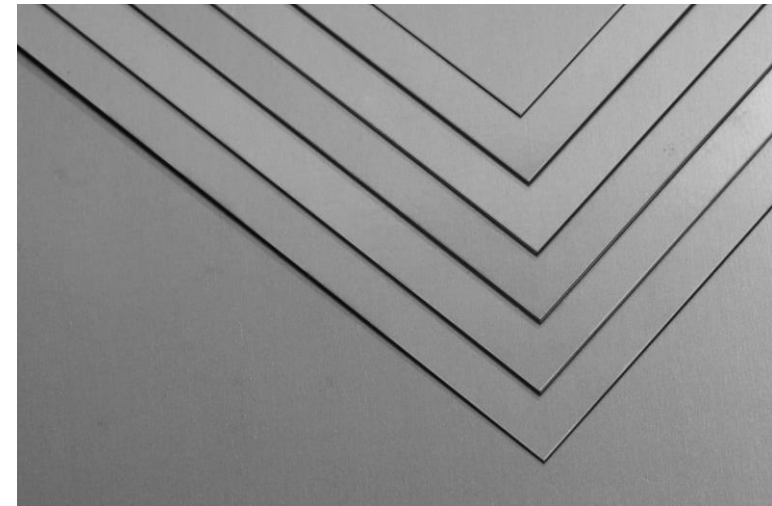
Our slitting equipment can slit coils from minimum 40mm. to max. 1250mm.

We serve our customers with our two slitting lines.



CUTTING LINES

- Georg 800 and Georg 1000 power transformer production
- We have cutting machines for distribution transformers in 7 different sizes (Georg 540, LAE, SDRI 640)





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CORES FOR DISTRIBUTION TRANSFORMERS

We manufacture distribution transformer cores in different sizes of machine lines to meet the needs of our customers.

Technical drawings received from customers are carefully reviewed and analyzed by our experienced engineering team, then proceeding meticulously with production. Our entire team is dedicated to serving our customers with a strong focus on their priorities.

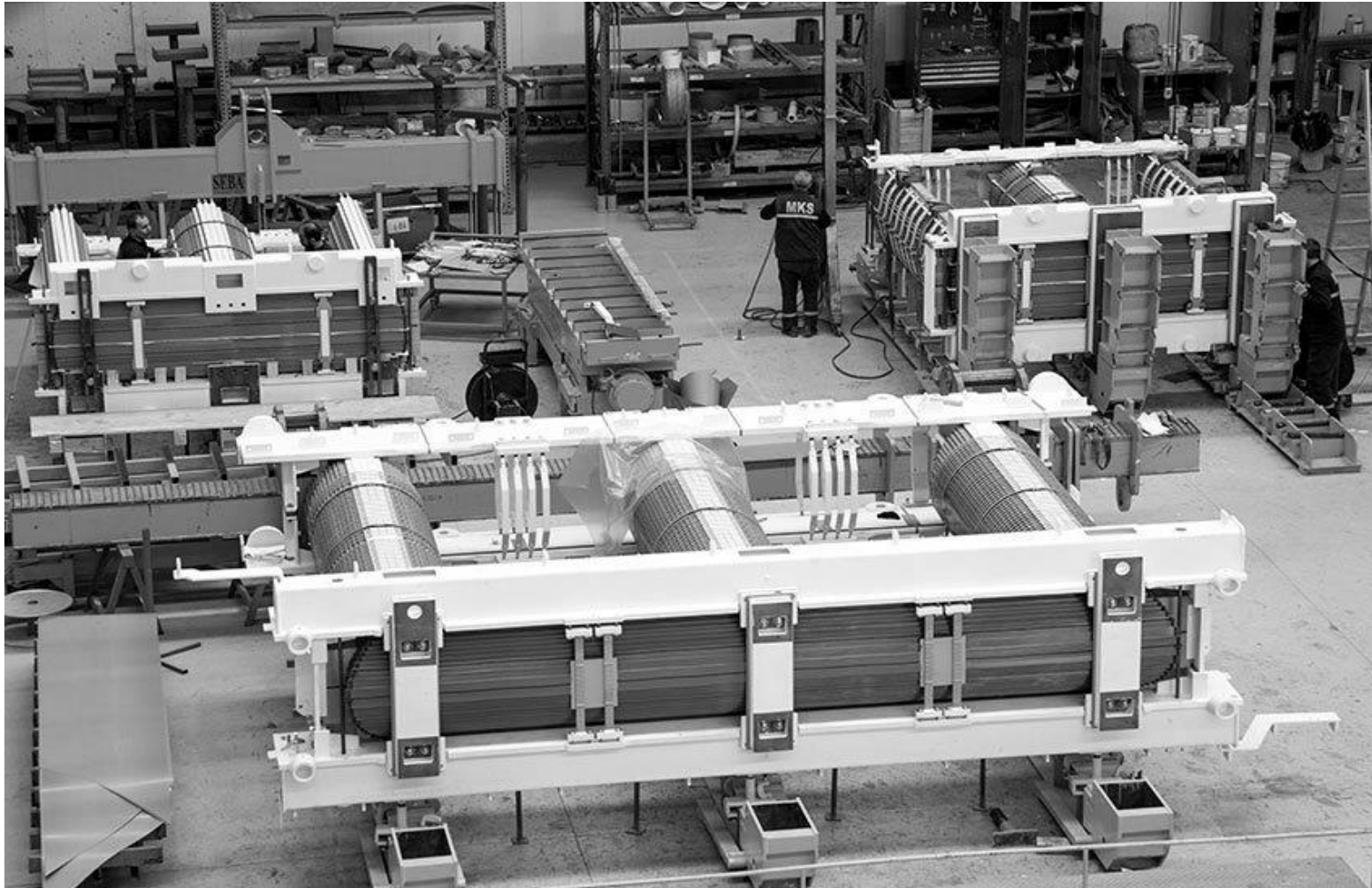


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CORES FOR POWER TRANSFORMERS



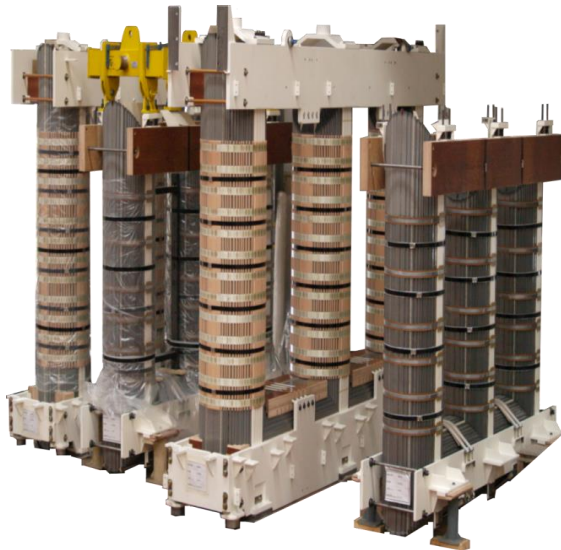


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CORES FOR POWER TRANSFORMERS

Our company can produce step-lap power transformer cores up to 1000mm strip width.

The cores weighing up to 150 tons can be assembled.

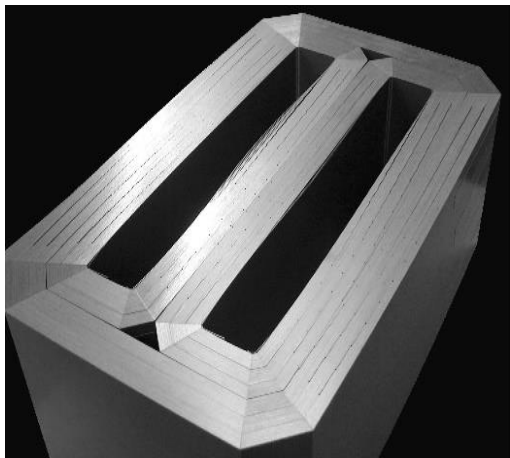




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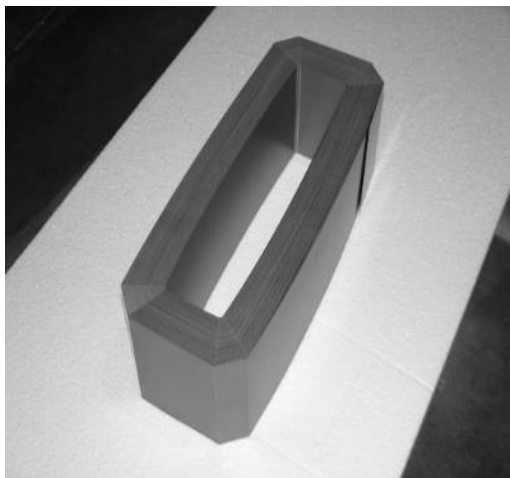
RECTANGULAR CORES



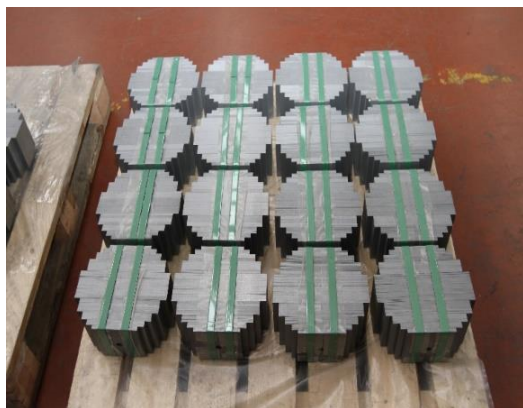
With our rectangular core fabrication equipment, we can produce several transformer core types such as: DUO-core, Distributed Gap core, Cruciform cores, Step Butt, Butt and Uncut cores.

These types of cores are too small to be cut through step-lap method, hence they are produced from electrical steel cut and shaped with high-precision.

Our fabrication method allows for a wide flexibility regarding the core sizes and types.

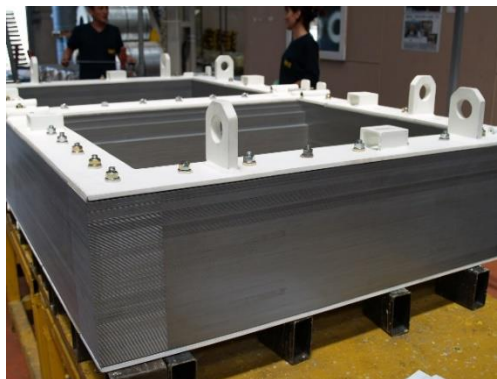


SPECIAL TYPE CORES



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MAGNETIC FLUX COLLECTORS

In general, magnetic flux collectors are manufactured for power transformers starting from 10 MVA and higher. Flux collectors with 10 mm. width are used for 30 MVA – 100 MVA power transformers. Flux collectors with 20 mm. width are used for power transformers starting from 200 MVA.

MKS TRANSFORMER EQUIPMENTS produces flux collectors with/without rubber, in painted or bare form for power transformers, in any size required by the customers' projects.

Manufacturing specification

Length: 100 mm. to 10.000 mm.

Width: 50 mm. to 600 mm.

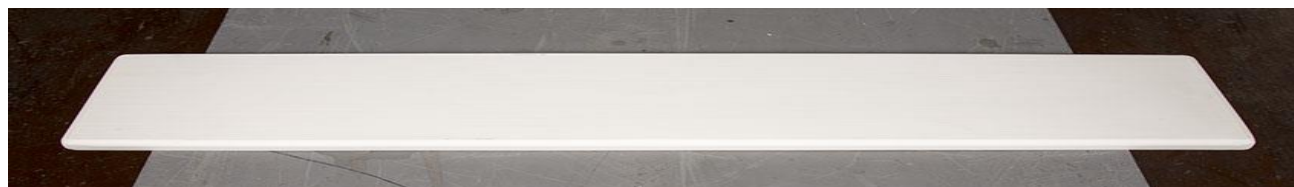
Thickness: 10 mm. to 200 mm.



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MAGNETIC FLUX COLLECTORS



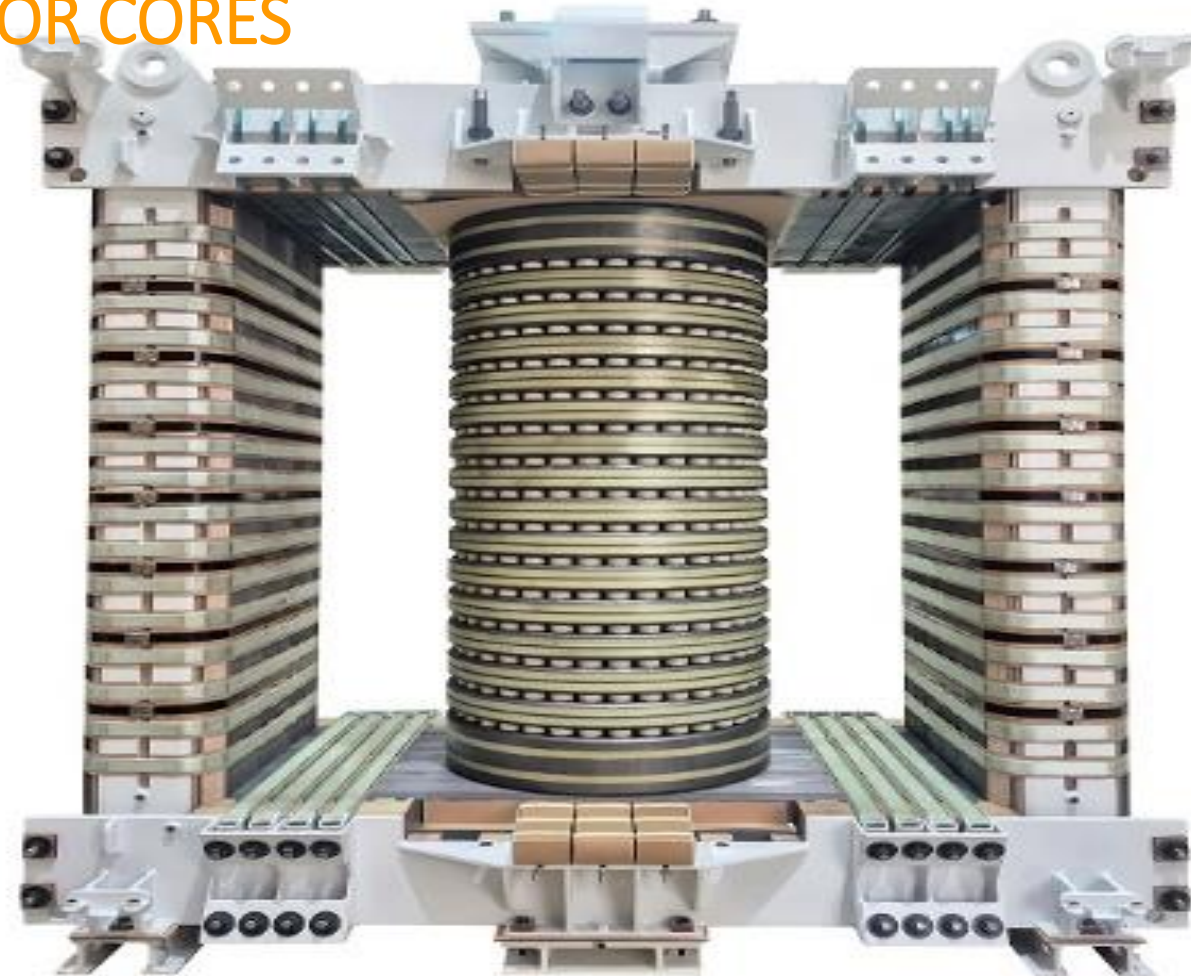


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SHUNT REACTOR CORES

In order to meet the increasing need for shunt reactors of international and domestic companies, MKS has completed the shunt reactor core production line, starting production in 2013.

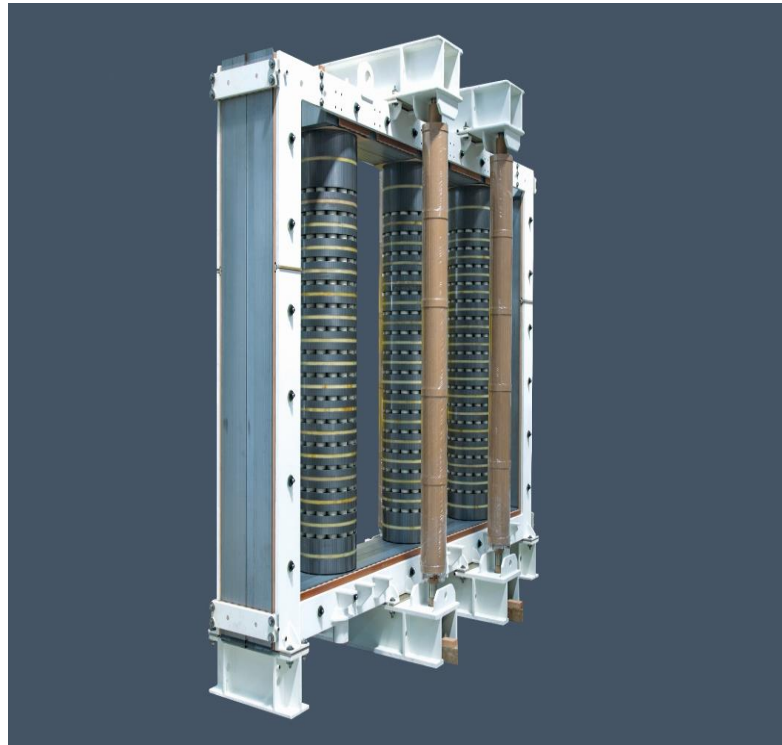
MKS manufactures the shunt reactor cores according to customer's design with a high flexibility for medium and high voltage systems. The shunt reactor cores are produced with yokes and legs, including all metal parts and insulation accessories. The complete weight of a reactor core can reach 150 tons.



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SHUNT REACTOR CORES



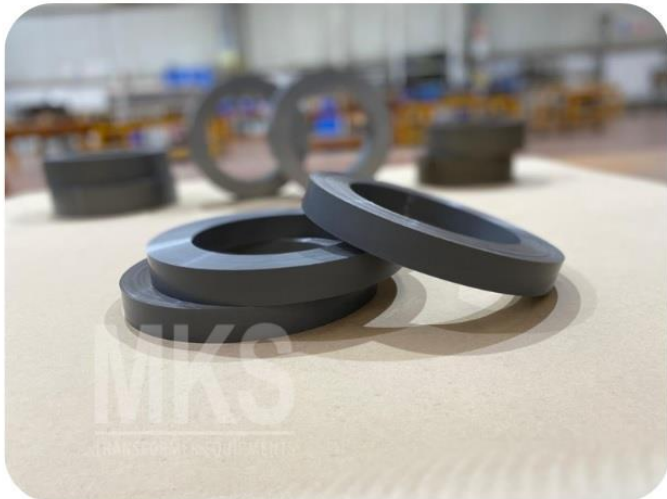
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SHUNT REACTOR CORES



TOROIDAL CORE



Toroidal cores are commonly used in transformers to convert between different AC voltages. They are particularly well-suited for this application because of their low magnetic field leakage and low core losses. This makes them more efficient and less likely to interfere with other electronic devices than transformers that use other types of cores.

Toroidal cores are also used in inductors to store energy in a magnetic field. Inductors are used in a wide variety of applications, such as filters, power supplies, and electronic circuits. Toroidal cores are a good choice for inductors because of their low core losses and compact size.



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QUALITY – TEST LABORATORY

Our testing facility is equipped with brand new Brockhaus devices in order to give best service to our customers. Worldwide recognized Brockhaus testing units give reliable and extremely accurate results. Using these devices enhances the optimization of the core design through the use of materials with better stacking factors. In our facility we have the following devices:

Single Sheet Tester 250*250 mm. Epstein Frame Franklin Tester
DC (Megger) AC (GW instek AC/DC withstand voltage tester)



