YadooTEK

YADOOTEK

Wuxi Yadoo Electromechanical Co., Ltd

www.yadootek.com

Wuxi Yadoo Electromechanical Co., Ltd

Add. No. 19, Kainan Road, Jiangyin City, Jiangsu Province, China

Tel. +86-510-8617-9305

Mob. +86-139-1249-5853

E-mail. lucien@yadootek.com

www.yadootek.com

YadooTEK

ABOUT US

Rooted in the manufacturing of electronic transformer cores since 1990,Wuxi Yadoo Electromechanical-Co.,Ltd.(Yadootek)has progressively expanded into adiversified industrial cluster encompassing four key business segments:electronictransformer cores,distribution transformer cores,specialtransformer cores,and measurement & control equipment cores.

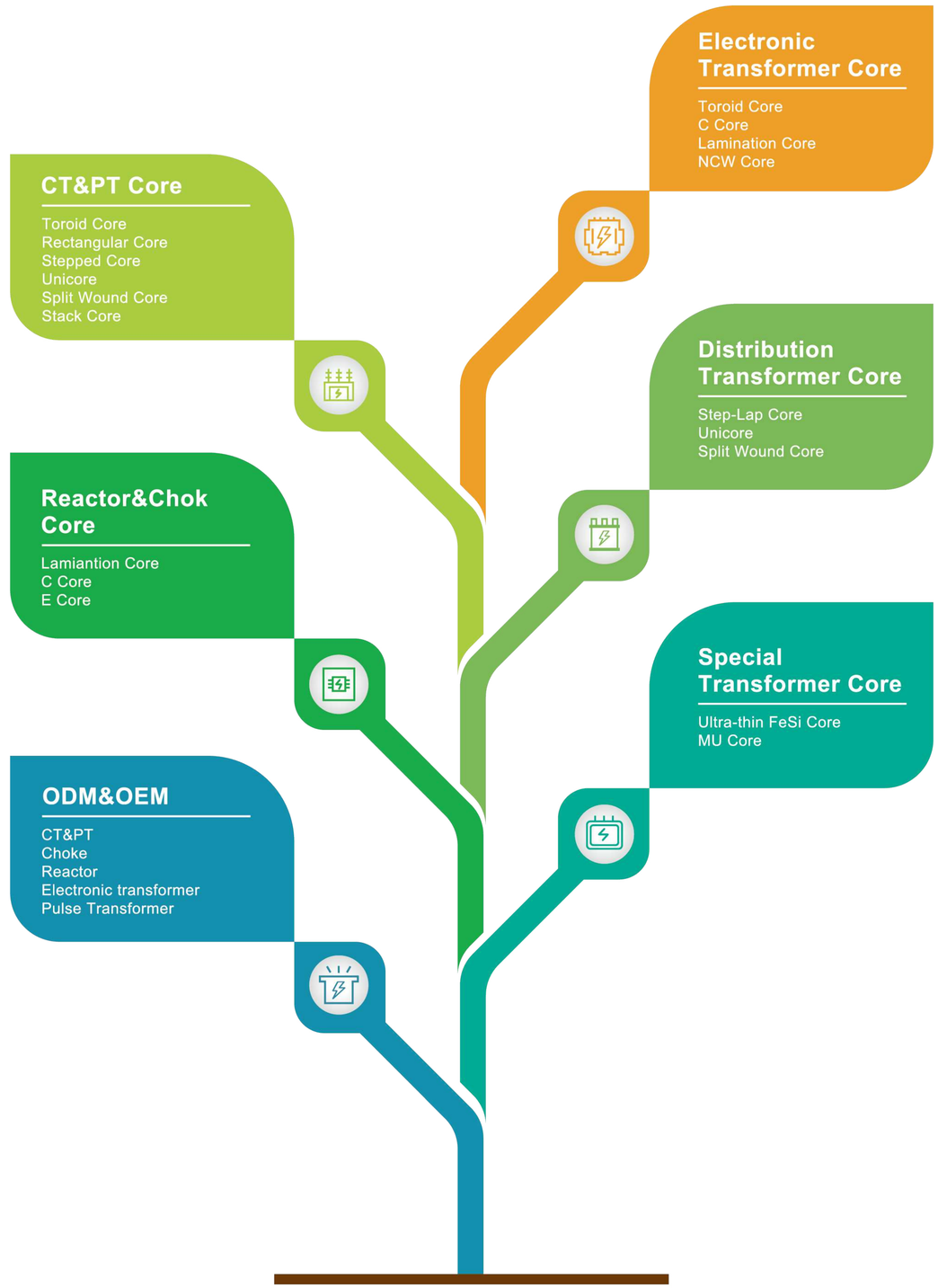
COMPANY INTRODUCTION

Beyond our core manufacturing strength,Yadootek has established asophisticated engineering&technology department and a small-batch production center.These units are dedicated to collaborating closely with clients throughout their new product R&D processes and providing small-batch OEM services.Our commitment lies in delivering the most stable component supply,reassuring-face-to-face global services,systematic project coordination,exceptional customer experience,and acting asa long-term strategic partnerfor mutual business success.

Today,Yadootek boasts aglobal production footprint spanning Jiangsu (China),Hubei (China),and New Cairo (Egypt).Wehave also set up localized business service hubs in HongKong(China),Mexico,South ZKorea,Vietnam,Poland,and Thailand.Our proven track record extendsacross major industrial powers and emerging markets,including the United States,Canada,the EU,Japan,-South Korea,Southeast Asia,Latin America ,and the Middle East,where we have accumulated extensive collaboration cases and supporting experience.

Our pre-sales and after-sales teams are on call year-round,travelingto client locations worldwide to provide professional supportand ensure seamless co-operation atevery stage.

YADOOTEK



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ELECTRONIC TRANSFORMER CORE

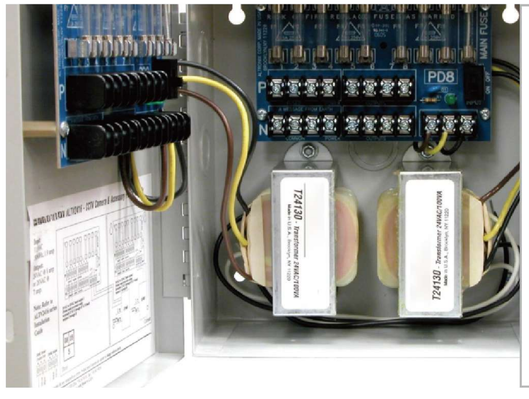
PRODUCT INTRODUCTION

Based on the principle of electromagnetic induction, electronic transformers operate in high frequency or power-frequency ranges, serving as crucial industrial components that providelow-power voltage conversion, current conversion, impedance matching, signal coupling, or electromagnetic isolation for mechanical equipment, electronic devices, and various circuits.

FUNCTION & APPLICATION

CONSUMER ELECTRONICS

Applicable to mobile phone chargers, laptop power adapters, set-top boxes, smart home devices, etc. It is mainly used for mains voltage step-down, electrical isolation, and high□frequency energy transmission.



INDUSTRIAL CONTROL

Applied in PLCs, frequency converters, servo drives, sensors, etc. It realizes isolation between control circuits and power circuits, signal coupling, and voltage adaptation

COMMUNICATIONS

Suitable for base station power supplies, routers, switches, etc. It serves the purposes of high frequency signal transmission, impedance matching, and electromagnetic interference suppression.

MEDICAL ELECTRONICS

Used in medical ultrasound equipment, high-frequency electrosurgical units, patient monitors, etc. It is required to meet strict safety standards for high isolation performance and low leakage current to ensure the safety of both patients and medical staff.

INSTRUMENTATION

Applied to oscilloscopes, multimeters, testing equipment, etc. It is dedicated to signal conditioning, voltage conversion, and precision measurement.

ELECTRONIC TRANSFORMER CORE

TOROID CORE

SILICON STEEL TOROID CORE

Silicon steel toroidal cores feature short magnetic paths, minimal air gaps, high permeability, and low loss. They ensure compact size, low noise, high efficiency, and excellent EMC performance for small power transformers.

Using high-grade cold-rolled grain-oriented and non-oriented silicon steel materials with low core loss and high magnetic flux density, available in thicknesses of 0.23mm, 0.27mm, 0.3mm, and 0.35mm.

We provide chamfering, film wrapping and other processing solutions for cores, simplifying customer processes and improving economic benefits.

NANOCRYSTALLINE TOROID CORE

Compared with silicon steel, nanocrystalline cores have higher permeability, lower core loss and wider frequency adaptability, enabling smaller size and higher efficiency. They are ideal for high-frequency switching power supplies, high-efficiency power adapters and precision electronic transformers.

NCW CORE

SILICON STEEL NCW CORE

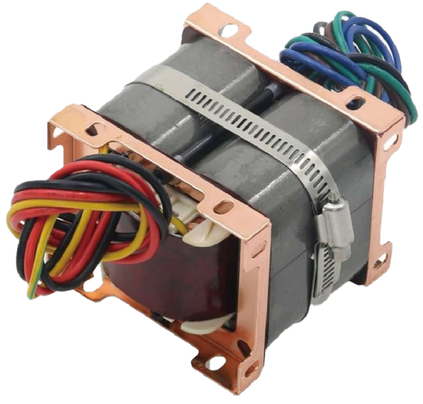
NCW cores differ greatly from conventional toroidal cores in transformer production. They are wound around coils via specialized equipment, fully enclosing the magnetic path. This structure delivers lower magnetic leakage, higher efficiency, better EMC performance and more compact dimensions.

NCW cores are especially suitable for products with strict requirements for safety, stability, efficiency and miniaturization. They are widely used in high-performance power supplies, precision transformers, medical equipment, industrial power supplies and other demanding applications.

Using high-grade cold-rolled grain-oriented silicon steel materials with low core loss and high magnetic flux density, available in thicknesses of 0.18mm,0.2mm,0.23mm.

C CORE

SILICON STEEL C CORE

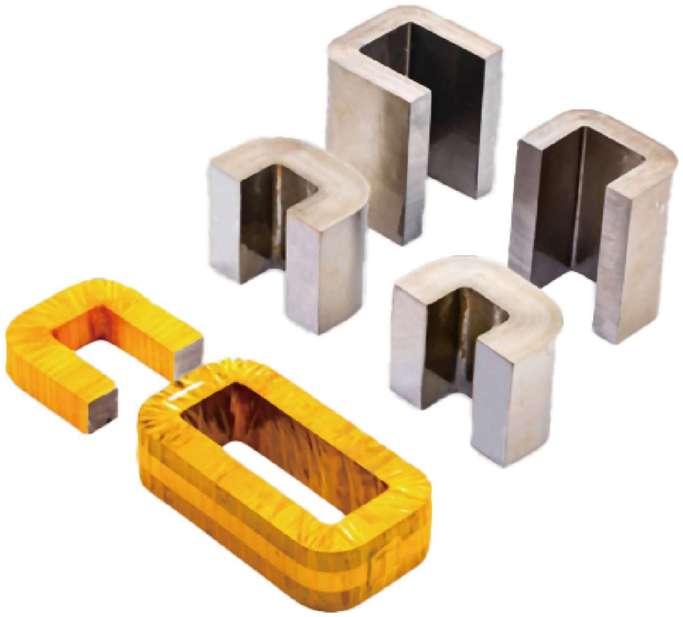


Silicon steel C cores feature a detachable structure, enabling easy assembly and maintenance. They offer larger winding space, better heat dissipation and higher mechanical strength, ideal for high-power, high-voltage and vibration-resistant equipment.

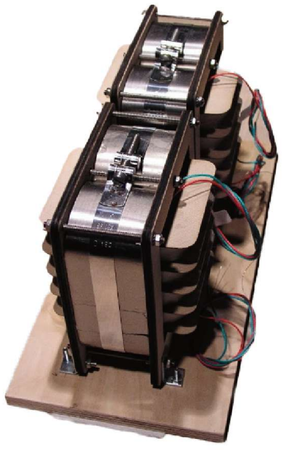
They outperform toroidal cores in applications requiring complex insulation, heavy-duty operation and modular design, making them irreplaceable in many industrial and power supply scenarios.

C Core in Chinese GB, JIS standard, BS standard, DIN standard, and other customized sizes

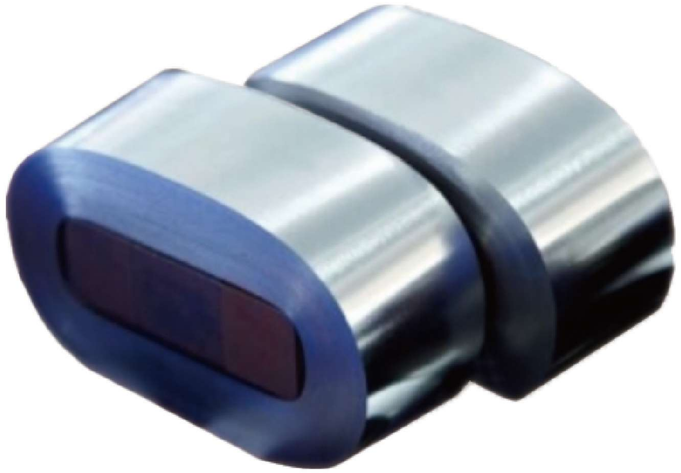
NANOCRYSTALLINE C CORE

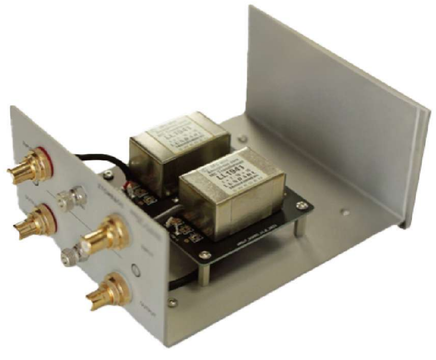


Nanocrystalline C-cores offer higher permeability, wider frequency range and lower temperature rising. They are ideal for precision transformers, inductors, medical power supplies and high-frequency electronic equipment.



AMORPHOUS C CORE





Amorphous C-cores have much lower core loss than silicon steel, with high efficiency and good thermal stability. They are widely used in high-frequency inverters, distribution transformers and energy-saving power supplies.

LAMINATION CORE

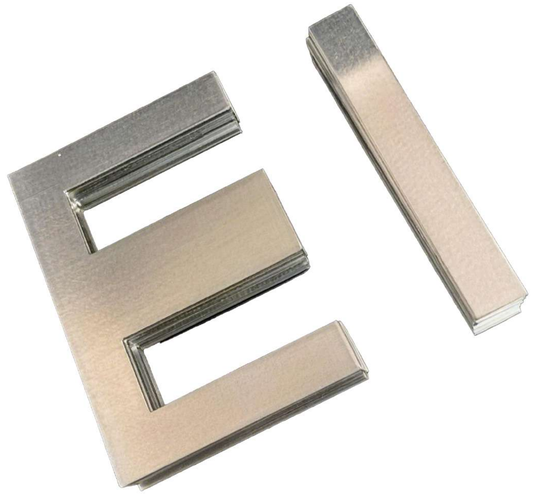
SILICON STEEL LAMINATION CORE

Since the 1990s, Yadootek has established itself with Silicon steel EI lamination cores, boasting China's most extensive EI core mold inventory, and its products are widely sold across the globe.

Standard or Non Standard EI,UI,GAP core and other special punching lamination cores.

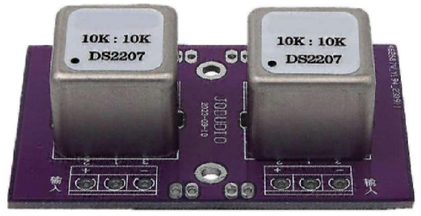
Using high-grade cold-rolled grain-oriented and non-oriented silicon steel materials with low core loss and high magnetic flux density, available in thicknesses of 0.3mm, 0.35mm and 0.5mm.

MU LAMINATION CORE

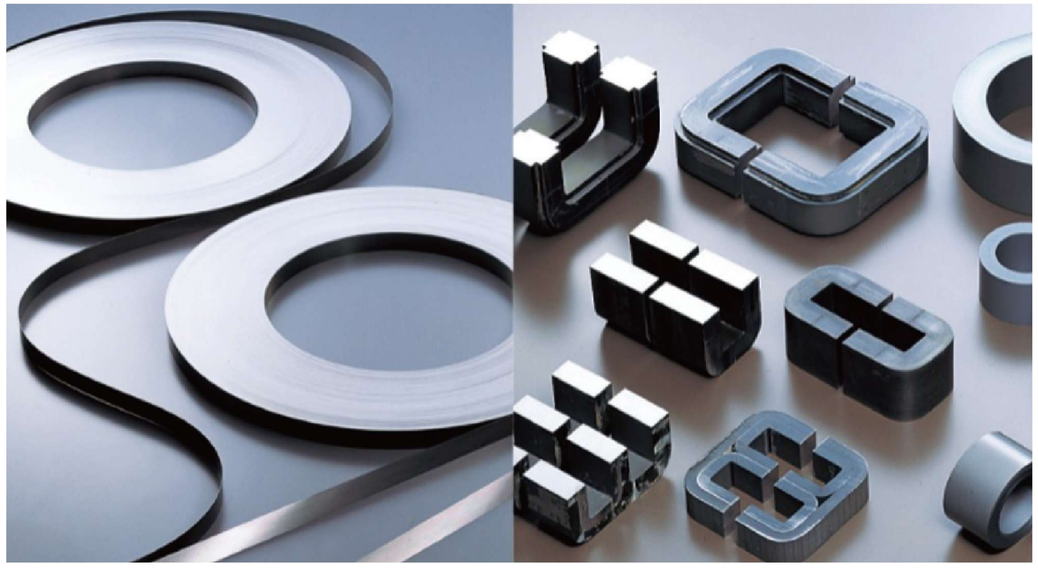


Besides silicon steel, Yadootek also produces and sells permalloy EI laminations. Featuring ultra-high permeability and low core loss, they are irreplaceable for high-fidelity audio transformers, precision instrumentation, and high-sensitivity signal transformers.

Providing permalloy laminations with diverse processing options, including stamping and riveting.



SPECIAL TRANSFORMER CORE



MU CORE

Permalloy offers ultra-high permeability, extremely low coercivity, and excellent low-field sensitivity unmatched by nano-crystalline and silicon steels. It ensures high precision and low distortion, widely used in high-sensitivity pulse transformers, audio transformers, precision instrument transformers, and military-grade communication magnetics.

Raw Material: 1J85,1J79,1J50

ULTRA-THIN FESI CORE

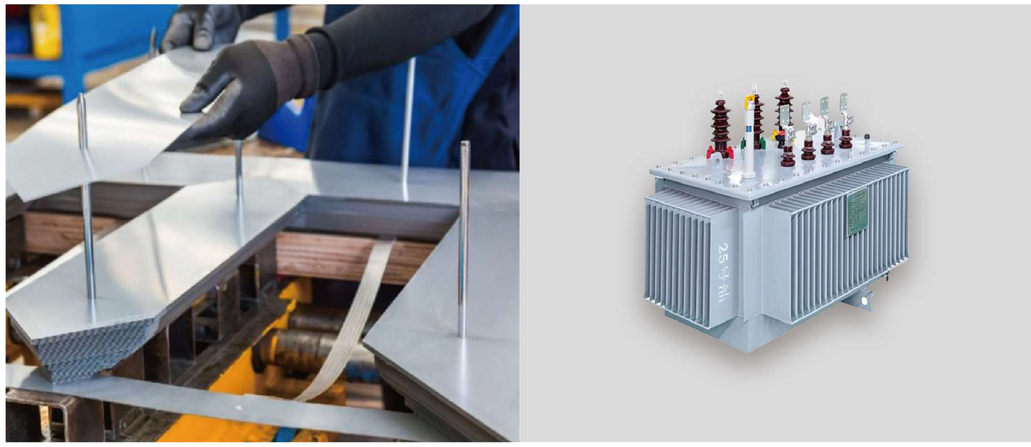
Ultra-thin silicon steel provides high saturation induction and stable pulse characteristics. It outperforms nanocrystalline and permalloy in saturation, costs less than permalloy, and has lower loss than traditional silicon steel. It is essential for high-power pulse transformers, ignition coils, laser power supplies, and high-voltage pulse generators.

Raw Material: 0.05mm,0.08mm,0.1mm,0.15mm.

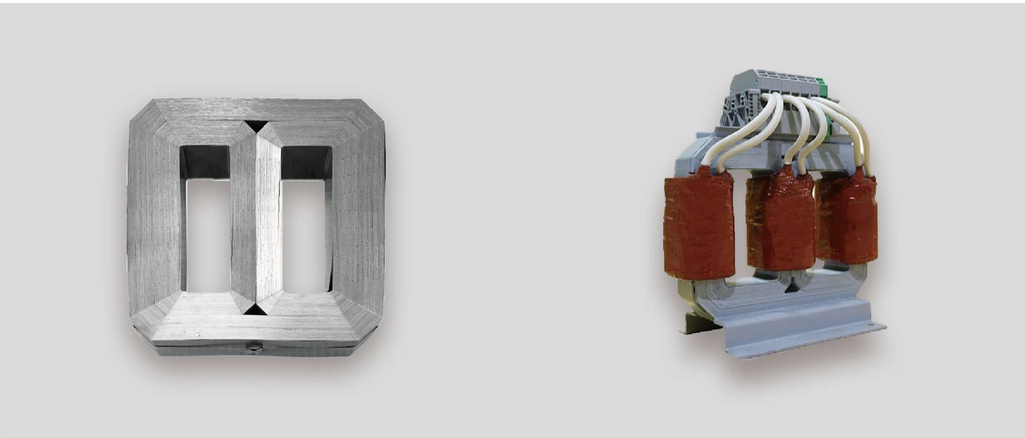
DISTRIBUTION TRANSFORMER CORE

STEP-LAP CORE

Yadootek manufactures step-lap cores up to 630KVA. We provide multiple delivery forms including un-built cores and built cores, effectively meeting customers' diverse cost requirements and production needs.



UNICORE



Yadootek manufactures kind of unicores,including single phase unicore,three-phase three-limb cores and three-phase five-limb cores,applied in dry transformers,pole mounted transformers and pad mounted transformers.

SPLIT WOUND CORE

Yadootek manufactures kind of distribution gap core,including single phase cores,three-phase three-limb cores and three-phase five-limb cores,applied in dry transformers,pole mounted transformers and pad mounted transformers.

FeSi Split Wound Core

Amorphous Split Wound Core

Amorphous from yadootek ,applied in dry transformers,pole mounted transformers and pad mounted transformers, while complying with increasingly stringent energy efficiency standards worldwide.

MAGNETIC CORES FOR MEASUREMENT PROTECTION AND COMPENSATION EQUIPMENT

CT&PT CORE

Toroid Core FeSi Toroid Core

Silicon steel toroidal cores offer strong advantages in cost and magnetic flux density for the production of measuring and protective class transformers, and remain one of the most mainstream design solutions today.

Nanocrystalline Toroid Core

The emergence of toroidal nanocrystalline cores meets customers' growing demand for metering-class transformers and the trend toward compact and miniaturized design.

Mu Toroid Core

Permalloy toroidal cores remain a preferred choice for many engineers in unique metering applications and precision instrument designs.

CT&PT CORE

FeSi Rectangular Core

Rectangular cut silicon steel cores are widely used in split-core low-voltage transformers and medium-voltage voltage transformers due to their convenient winding and assembly.

Nanocrystalline Rectangular Core

Rectangular nanocrystalline cores are widely used in high-precision transformers, new energy inductors and other fast-growing emerging fields. Yadootek provides customers with various process solutions including coating and casing.

FeSi Stepped Core

Compared with standard rectangular cores, stepped cores feature a cross-section closer to circular, which helps reduce product size and save winding wire. As a result, they are increasingly adopted by engineers in more designs.

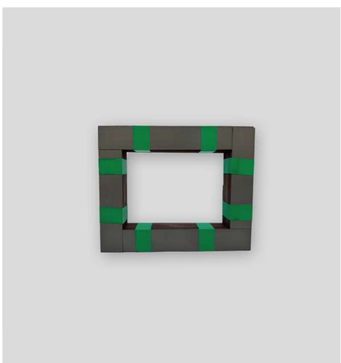
CT&PT CORE

Unicore

Due to its low production cost and simple assembly, Unicore is also chosen by many instrument transformer manufacturers to replace traditional Rectangular cores.

Distribution Gap Core

Similar to unicore, the distribution gap core has comparable structural characteristics. Moreover, its rounded corner design makes it easier to adapt to molds, resulting in unique advantages that complement those of unicore.



Lamination Stack Core

Many engineers also choose **right-angle laminated stacks** for transformer core production. This design offers the advantage of **flexible core sizing**, with no excessive equipment constraints even for larger dimensions.

APPLICATION EXAMPLES

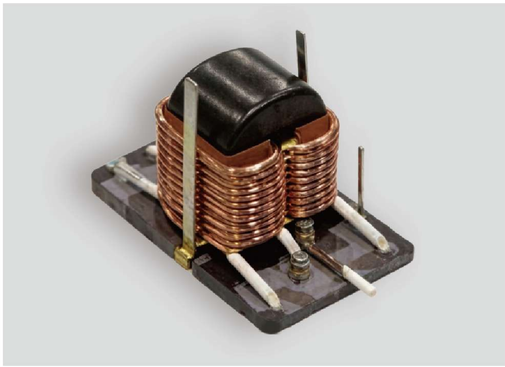
Yadootek's wide range of cores can be widely found in low-voltage, medium-voltage and high-voltage instrument transformers and other measuring or protection instruments.

Note: To avoid commercial conflicts, our OEM services are strictly provided in compliance with customer authorizations.

REACTOR & CHOKE CORE

- Lamiantion Core

- C Core

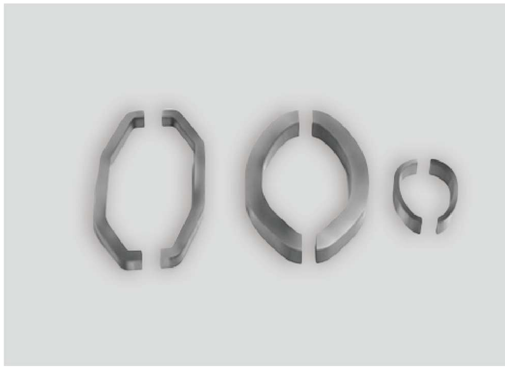


- E Core

SPECIAL CORE

- GAP Core

- Clamp Core

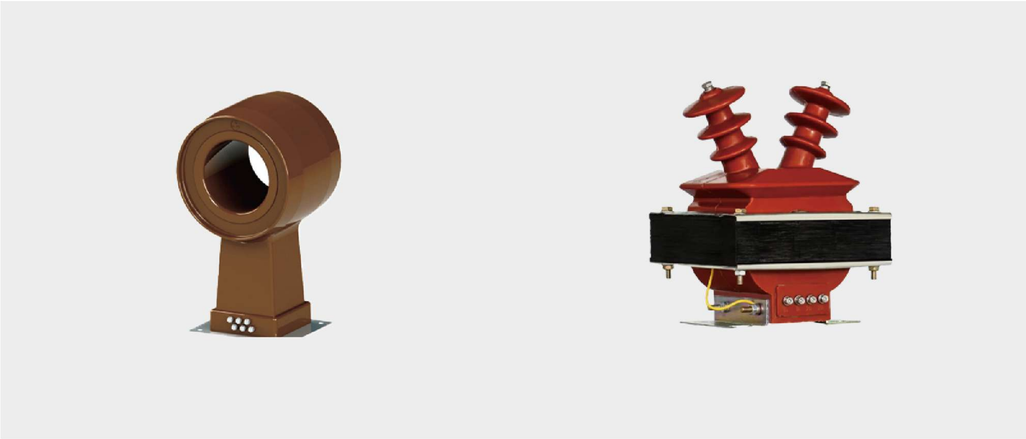


- Special Shape Core

ODM & OEM

MV CT&PT

With years of rich project experience in serving medium-voltage instrument transformer clients,Yadootek is well-equipped with capabilities in sample prototyping, coil winding, synchronous development and small-batch trial production. We provide flexible OEM/ODM solutions to help clients improve R&D efficiency and reduce design costs.



Note: To avoid commercial conflicts, our OEM/ODM services are restricted to sample and smallbatch trial production only.

LV CT&PT

As a growing number of merchants in emerging markets are looking to expand their low-voltage current transformer businesses, they are struggling to move forward due to a lack of design experience and the inability to afford development costs. To address this, we have developed several types of universal low-cost LV CT products for customer selection. Clients can either adopt our designs directly or make adjustments and customizations based on them.

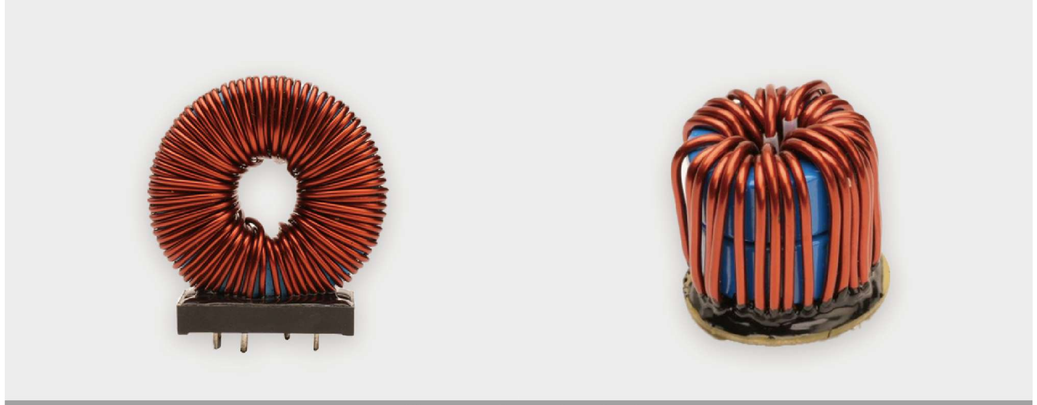
Note: To avoid commercial conflicts, our OEM/ODM services are restricted to sample and small- batch trial production only.

ODM & OEM

CHOKE

With the ongoing trend of miniaturization, high-frequency operation and intelligentization of electrical products, the demand for high-quality inductors is growing rapidly. However, consumer electronic products are always confronted with intense commercial competition, and how to reduce costs and improve efficiency has long been a top concern for numerous manufacturers. Yadootek has integrated a low-cost production team, enabling us to provide customers with reliable inductor OEM services at competitive prices.

Common Mode Choke

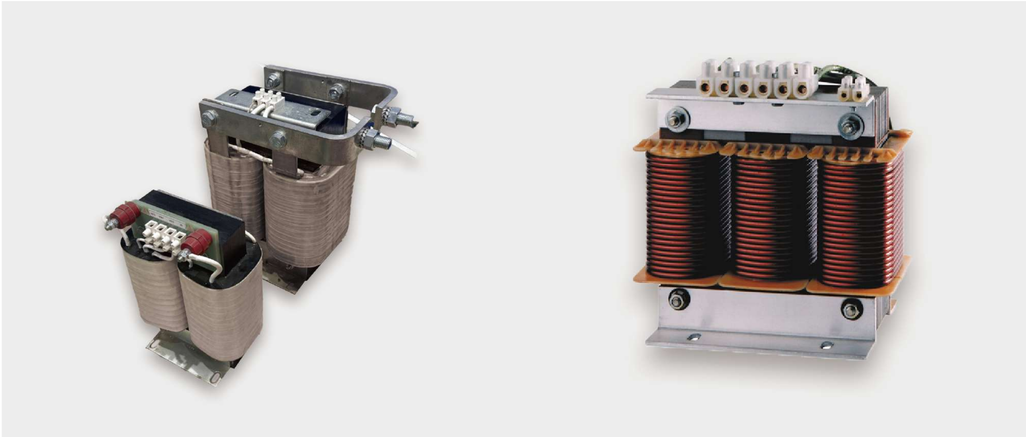


Differential Mode Choke

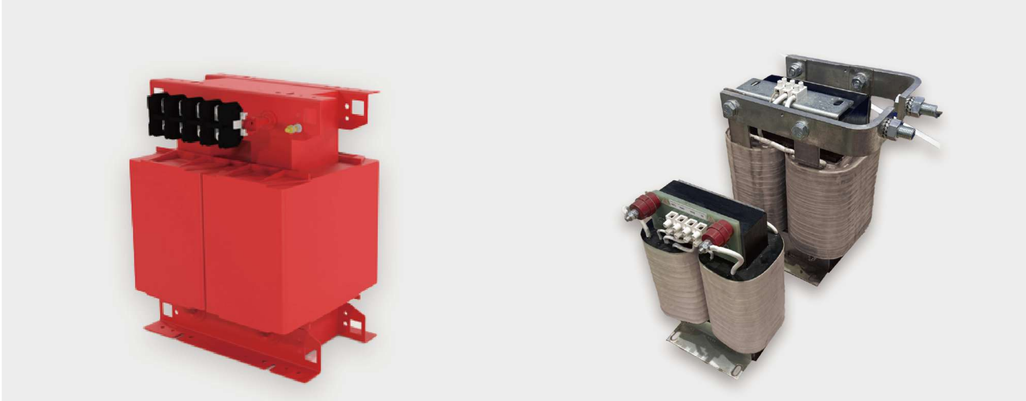
Note: To avoid commercial conflicts, our ODM services are strictly provided in compliance with customer authorizations.

REACTOR

When serving high-end reactor brands from Japan and Switzerland, Yadootek has been authorized to provide OEM services. Our products have won high praise from customers and obtained compliance certifications such as UL.



SPECIAL TRANSFORMER

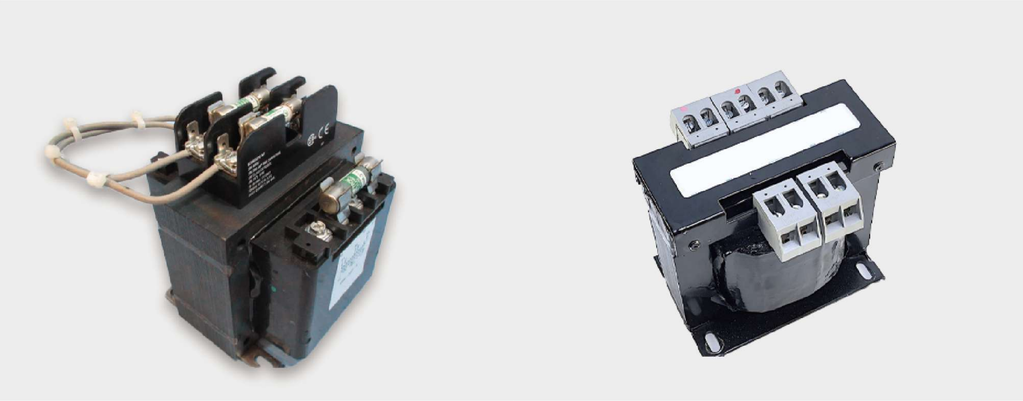


Note: To avoid commercial conflicts, our OEM services are strictly provided in compliance with customer authorizations.

ODM & OEM

ELECTRONIC TRANSFORMER

Yadootek provides OEM manufacturing services for control transformers, voltage stabilizers and special power supplies to manufacturers in the United States and the European Union, with its products holding certifications such as CE and UL.



Control Transforme

Toroid Transformer

Note: To avoid commercial conflicts, our OEM services are strictly provided in compliance with customer authorizations.

OTHER SERVICES

WORKWEAR CUSTOMIZATION

TEST MACHINE SOURCING

PRODUCTION MACHINE SOURCING

Noted: To avoid commercial conflicts,our services are are strictly provided in compliance with brands' authorizations.