



PTTX LATE-MODEL ECO-FRIENDLY TRANSFORMER CORE



BOOSTING LOW-CARBON DEVELOPMENT

PTTX promotes the manufacture of late-model eco-friendly transformer cores with professional technical support, novel production technology, and supporting full-process services, so as to reduce transformer no-load losses, save energy and reduce emissions. PTTX uses practical actions to boost 'carbon peaks and carbon neutrality', aimed to promote the green development in the power industry.

China strives to achieve carbon peaks by 2030 (once *carbon peaks* are reached, carbon dioxide emissions no longer increase, but start to decline) and achieve carbon neutrality by 2060 (*carbon neutrality* is reached when enterprises, groups and individuals offset the carbon dioxide emissions they generate and achieve zero carbon dioxide emission by afforestation, energy saving, emission reduction, etc.). As a leading enterprise in the transformer core industry, PTTX takes the lead in low-carbon emission reduction green manufacturing, taking social responsibility, and making contributions to the power industry.

On June 1, 2021 China officially implemented the new version of the "Minimum allowable values of energy efficiency and the energy efficiency grades for power transformers" (GB 20052-2020) standard. In the new standard, the standard loss index for all types of transformers will be reduced by about 10-45% compared to the old standard. This is better than the requirements set by the European Union (which implemented the new standard on July 1, 2021) and the United States.





The implementation of the new energy efficiency standard further promotes the transformation of the entire power transformer network. If the new Grade-1 energy efficiency transformers, which are made from high grade oriented electrical steel, can cover China's current distribution network, it is estimated that this can save 87 billion kWh of electricity per year, equivalent to 86.7 million tons of carbon dioxide emissions.

Facing such astonishing data, PTTX firmly believes that we should make our due contribution at the times when the power industry needs it.

High performance grain-oriented electrical steel is the most suitable material for the manufacture of the Late-model Eco-friendly Transformer under the new energy efficiency standard. The production technology of high grade grain-oriented electrical steel is complex, and PTTX actively carries out research and development of this steel, material innovation and technology upgrade. Through the efforts of our R&D team, the quality of PTTX grain-oriented electrical steel is steadily improved.

PTTX's research is not only based on the upgrade of grain oriented electrical steel materials. Approaches to applying high-performance grain oriented electrical steel in the design of the Late-model Eco-friendly Transformer Core is an added value that PTTX R&D team has brought to clients.

The higher the performance of grain-oriented electrical steel, the higher the calculation requirements for transformer core design. The higher the grade of grain-oriented electrical steel, the thinner its thickness, the higher the level of processing technology requirements.

In the case of 0.20 mm and 0.23 mm thick grain-oriented electrical steel, which is in highest demand, many transformer companies have come under the pressure of design and processing difficulties.

PTTX provides clients with Late-model Eco-friendly Transformer Core design solutions to solve design problems.

Through the use of high quality PTTX grain oriented electrical steel, with design and processing technology innovation and the use of intelligent manufacturing technology, we offer clients an ability to customize Late-model Eco-friendly Transformer Core.

Transformer cores are different from general mechanical manufacturing products which can be shipped to clients in simple packaging. If the transformer core is not properly protected, this will have a great impact on its performance. For example, in severe weather, we should pay more attention to strengthening external anti-corrosion. During the shipment, appearance damage under the influence of stress should be avoided. Attention should also be paid to avoiding attachment of metal dust and other foreign bodies, etc.

At PTTX we investigate best logistics solutions for the transformer core and we develop exclusive transformer core packaging protection and logistics operations and services to ensure that the product arrives intact to the client.

PTTX is not only a transformer core manufacturer, but also a developer of green manufacturing system solutions. For the transformer core manufacturing requirements, we have asked ourselves many questions and devised many solutions accordingly, which seem to have exceeded the necessary core requirements. This speaks of our dedication to every detail of transformer core manufacturing, and the focus on each of our client's expectations of our quality.

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Contact us:

Wuxi Putian Iron Core Co., Ltd.
 E-mail: pttx@pttx.com
 Web: en.pttx.com
 Tel: +86 510 83798338
 Fax: +86 510 83798338
 Address: No.19 Jingxiang Rd,
 Xishan District, Wuxi, China

PTTX Global Offices:
 Headquarters: Wuxi, China
 European Office: Frankfurt, Germany
 Middle East Office: Dubai, UAE