



CRGO CORE PROCESSOR

1 Lakh Sq. Meters

of operational space, equipped with advanced infrastructure for high-precision manufacturing.





35+Years

of operational space, equipped with advanced infrastructure for high-precision manufacturing.

ABOUT US

MEIL, established in 1990, is an **ISO 9001:2015, ISO 14001:2015**, and **ISO 45001:2018** certified company and a pioneer in processing CRGO products.

Approved by Power Grid Corporation of India Limited for **400 kV class projects**, MEIL is also equipped to process CRGO core lamination up to the **1200 kV class**.

MEIL is a well-established brand in CRGO lamination, core assembly, core-coil assembly, windings, amorphous cores, wound cores, and transformer CRGO cores (for both distribution and power transformers), serving the global industry for several decades.



HISTORY

A transformative journey in the power transmission industry began 35 years ago with just 10 employees. Over time, MEIPL has grown into a vast family of over **1,000 members**.





Our journey began with transformer lamination manufacturing. Today, we proudly stand as India's foremost CRGO core supplier, offering a comprehensive range of products, including **CRGO lamination**, **CRGO slit coils, core assembly, core-coil assembly, amorphous cores, wound cores, I.C.B., toroidal cores**, and more.

This evolution reflects our unwavering commitment to excellence and innovation, enabling us to serve the diverse needs of the electrical industry and solidify our position as a trusted partner for high-quality CRGO core solutions.





INFRASTRUCTURE

Spread across

1 Lakh Sq. Meters our seven state-of-the-art production facilities

boast a capacity of

40,000 Metric Tons

providing a livelihood to over 1,000 people.



CRGO SLIT COIL

EXCEPTIONALLY UNIQUE

Specializing in slitting Cold Rolled Grain-Oriented (CRGO) mother coils to precise widths ranging from 40 mm to 1,250 mm, tailored for both smalland large-scale transformer applications.

PRECISION AND QUALITY

Ensuring each lamination meets exacting standards for efficiency and performance, with high dimensional accuracy and consistency.

COIL PROTECTION

Utilizing coil wrapping machines with LDPE, HDPE, and stretch film to safeguard coils during handling and transportation.

COMMITMENT TO EXCELLENCE

Delivering cuts with burr less than 8 microns (μ m), setting the foundation for reliable and high-performance transformer components.



CRGO CUT LAMINATION

CUTTING PRECISION

Utilizing state-of-the-art Cut-to-Length (CTL) machines with V-notch, 2-hole punch, and 2-tip cut units, we deliver precision-cut CRGO laminations for distribution and power transformers.

VERSATILE CORE DESIGNS

Our advanced cutting process accommodates diverse core designs and configurations, ensuring superior accuracy and consistency in lamination dimensions.

OPTIMAL PERFORMANCE

Leveraging cutting-edge technology and expertise, we produce high-quality laminations that enhance transformer efficiency and performance across various voltage levels.

DETAILED MEASUREMENTS

For power transformer cores above 25 MVA, we provide on-pallet measurements for burr level, stack height, number of pieces, and packets, ensuring zero material wastage or shortages.



CORE ASSEMBLY

PRECISE TESTING

Undergoes stringent testing to evaluate no-load losses, ensuring precision and efficiency for optimal transformer performance.

SECURE PACKING

Each core assembly is carefully packed to safeguard it during transportation and handling, maintaining uncompromised quality.

COIL INSERTION PREPARATION

Assemblies are prepped for seamless insertion of Low Voltage (LV) and High Voltage (HV) coils, marking a critical stage in transformer manufacturing.

QUALITY ASSURANCE

With a focus on precision and careful handling, we ensure high reliability and superior performance in every core assembly.





CRGO CORE COIL ASSEMBLY

TAILORED CRGO CORE ASSEMBLIES

Specializing in core assemblies for distribution and power transformers with capacities up to 10 MVA, designed for optimal performance and efficiency.

EXPERT DESIGN & FABRICATION

Offering comprehensive production capabilities, including design, fabrication, assembly, and testing, ensuring strict adherence to industry standards.

HIGH-VOLTAGE RELIABILITY

Engineered to withstand high-voltage environments, minimizing energy losses while optimizing efficiency in power transmission and distribution.

QUALITY & DURABILITY

Providing complete magnetic core assembly solutions, ensuring long-lasting reliability, durability, and superior performance.



AMORPHOUS CORE

MINIMIZED EDDY CURRENT LOSSES

With an ultra-thin 0.03 mm thickness, the amorphous core significantly reduces eddy current losses, lowering no-load losses to just one-fifth of those in silicon steel cores.

UNIQUE MATERIAL PROPERTIES

Amorphous core materials exhibit minimal magnetic hysteresis and reduced electrical conductivity, ensuring exceptional energy efficiency.

ENHANCED ENERGY PERFORMANCE

The ultra-thin profile minimizes electromagnetic induction, reducing energy losses during operation and optimizing power consumption.

ENERGY CONSERVATION

Improved efficiency enhances energy conservation efforts, leading to operational cost savings across various electrical applications.



WOUND CORE

PREMIUM CRGO WOUND CORES

Manufactured from carefully selected Cold Rolled Grain-Oriented (CRGO) electrical steel, designed for superior electromagnetic properties and precise dimensional accuracy.

SUPERIOR MAGNETIC CHARACTERISTICS

CRGO steel minimizes energy losses and enhances efficiency, making it an ideal choice for transformers and other electrical applications.

STRESS-RELIEF ANNEALING

The cores undergo a specialized annealing process to restore magnetic properties, relieve internal stresses, and improve magnetic permeability.

ENHANCED RELIABILITY & EFFICIENCY

With consistent magnetic behavior, these cores ensure long-lasting performance and optimal efficiency, essential for high-quality electrical equipment.





IMMERSED CIRCUIT BREAKER (ICB)

25 YEARS OF MANUFACTURING EXCELLENCE

Specializing in Immersed Circuit Breakers (ICBs) engineered for exceptional performance, reliability, and maximum lifespan.

OIL-IMMERSED DESIGN

Designed to reduce damage and minimize maintenance costs, ensuring long-term reliability for distribution transformers.

CUSTOMIZED SOLUTIONS

Offering a wide range of circuit breakers tailored to diverse industrial needs, featuring efficient voltage capabilities for various applications.

DURABLE & RELIABLE ENGINEERING

Built with a robust metal frame and air-insulated design, ensuring superior durability and operational efficiency.



WORLD-CLASS QUALITY TESTING LAB SETUP













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BROCKHAUS MESSTECHNIK LAB Germany

The MEIL Brockhaus Lab is equipped to conduct comprehensive electrical testing of CRGO products in accordance with ISO 3024:2015 standards.





OUR GLOBAL FOOTPRINT

Expanding our presence across international markets with a commitment to quality, innovation, and reliability.



GET IN TOUCH

O Corporate Address

Registered Corporate Office: C-61, (A&B), Road No. 1-C, V.K.I. Area, Jaipur, Rajasthan – 302013, India

Phone Number
+91 9265144007, +91 9352267506

Rajasthan.

Factory Address E-40 to E-46 & E-46A, SKS

Industrial Area, Reengus,

NGA

- Email info@mangals.com

Website www.mangals.com