

**One of the Largest & Oldest
processors of CRGO Steel
Applications in the Electrical
Industry nearing 30 years**



- CRGO Toroidal Core for LT CT/ HT CT & CBCT
- Epoxy Coated & Varnished CRGO Toroidal Core for LT CT/ HT CT & CBCT
- CRGO Lamination for Power & Distribution Transformer
- CRGO Assembled Stacked Core & Built up Core
- Testing Facility upto 12.5 MVA for No Load Losses
- CRGO & CRNGO E&I Lamination
- CRGO & CRNGO Strip Lamination



**IS 3024:2015 CERTIFIED COMPANY
An ISO 9001:2015 CERTIFIED COMPANY**



PREMIER CORE INDUSTRIES
PRACTICING CONTINUOUS IMPROVEMENT



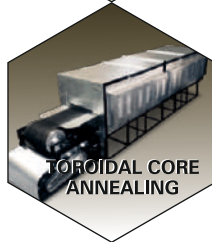
Manufacturers of CRGO Lamination for Power and Distribution Transformers up to 63 MVA, CRGO Toroidal Round & Rectangular Cores, Bus Duct CBCT Cores, 11 KV-500 KV CT/VT/PT/RVT CRGO Cores, CRNO Laminations and CRNGO & CRNO Slitting Operations.

ABOUT US

Premier Core Industries is a family managed company involved in manufacturing and supplying Electrical CRGO Silicon Steel Products in various forms such as CRGO Mother Coils, Toroidal core, Transformer Laminations, Transformer assembled Core, Strip Laminations in CRGO & CRNGO and providing CRGO & CRNGO slitting services.

The Journey of Premier Core Industries began in 1995 with a small unit located in Mumbai by our Managing Partners Alwyn Rasquinha & his wife Benedicta Rasquinha. Today nearly 3 decades on Premier Core Industries has 3 Large units setup in Mumbai and in the Industrial outskirts of Mumbai having an annual capacity of processing 1000MT of CRGO for various products required for Transformer Industry.

Today nearly 3 decades later we are one of the leading powerhouses in manufacturing CRGO Toroidal Cores for LT CT/HT CT & CBCT applications and Transformer Lamination Industry catering to Indian markets as well as in International markets.



MFG. PROCESS

SLITTING

Consisting of 2 Slitting Lines with high quality carbide cutting blades for high quality precise slitting with minimum burr levels to obtain desired width of coils for manufacturing Transformer Lamination and Toroidal Cores.

SLIT COILS INWARD

Once the slitting process is completed these coils are taken inward in the ERP System and placed in the coil storage facility or store to maintain a perfect stock.

TOROIDAL CORE WINDING

These slit coils of the specific width are then processed on the automatic or conventional core winding machines for making CRGO round and rectangular cores as per customer specifications.

TOROIDAL CORE ANNEALING

These cores are then stress annealed up to 800 Degree Celsius to attain the desired electrical losses as per customer specification and requirements.

TRANSFORMER LAMINATION CUTTING

Once the desired width coil is obtained after the slitting process the next step is cutting where these coils are cut at specific length at 45- or 90-degree in Conventional & Step Lap (Horizontal & Vertical) design and various operations like V-notching at 45-degree angle and holing are performed as per the core design requirement by the customer.

TESTING FOR NO LOAD LOSSES

As per customer requirement, we strictly test the assembled core for no load losses. We have testing bench with the capacity to test no load losses upto 12.5 MVA Power and Distribution Transformer.

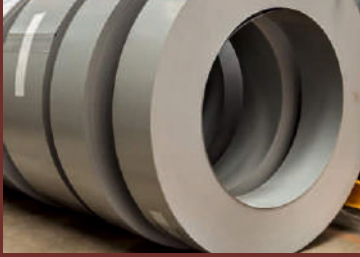
PACKAGING

The packaging stage is the most delicate and crucial process as these materials are overly sensitive in nature and high level of utmost precision must be taken while packing these finished CRGO products. Wooden block pallets are placed beneath and these CRGO Finished Goods are wrapped in transparent stretch wrap. In case of Transformer Laminations, the stacks are packed in such a manner that it is convenient and easy for the customer's assembly team to assemble the core.

DISPATCH

We carry out dispatch by Road, Sea & Air as per the destination and feasibility.

OUR PRODUCTS



SLIT COILS

We have the facility to slit coils from the entire range of Cold Rolled Grain Oriented (CRGO) & Cold Rolled Grain Non Oriented (CRNGO) coils used by the Electrical Steel Industry, with high permeability in thickness ranging from 0.23 to 0.35mm in various grades like M3, M4 (27CG120), M5 (30CG130) MOH (23HP90 & 27HP100), ZDKH(23HP85D). We have set up check-points during the slitting process to ensure that the burr level of material is well within the tolerance. The coil slitting process can undoubtedly slit the material without any generation of scrap. (i.e. slitting of 100mm coil in two different 50 mm coils)

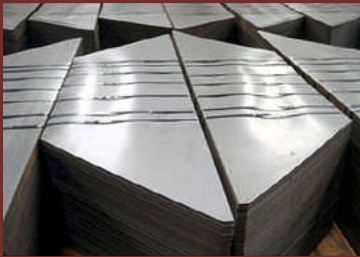


TOROIDAL CORE

We manufacture and process CRGO Round & Rectangular Cores in various grades like M3, M4, MOH, ZDKH(LASER), M5 & M6.

We manufacture round cores with minimum ID of 17MM to maximum OD of 1335MM and rectangular cores with minimum ID of 17MM X 25MM with maximum OD of 1300MM.

These automatic machines give us an upper hand to manufacture high quality precision CRGO Cores for our customers. On Customers special request, we can carry epoxy coating or varnishing on toroidal (magnetic) CRGO cores.



TRANSFORMER LAMINATIONS

Transformer core lamination in various shapes & sizes are slit and cut to required accurate geometrical shapes with 90° & 45° cutting systems for Power & Distribution transformers.

Transformer lamination are manufactured in conventional or step lap design (Vertical/Horizontal). Step lap construction has now been established as an industry standard where high efficiency transformers using stacked cores are required.

It allows manufacturers to produce stacked cores with the lowest possible No Load Loss (NLL), assembly time & simplifies core handling.

Step Lap: Empowers Manufacturers to be Competitive.



BUILT UP CORE

We manufacture built up cores as per customer design and specification.

At present our capacity to cut and manufacture built cores is from 1 KVA TO 63 MVA rating. Extreme emphasis is given to maintain the IS standard in all the engineering processes to produce the best lamination as desired by the customer.

Each and every core passes through strict quality standards at all stages of Inspection. Electrical, Mechanical and Visual inspection of every core is done before packing. We have all types of testing equipment/ facility to test built cores up to 10 MVA.

We provide a built core with Guaranteed no load losses certificate.



STRIP LAMINATIONS

Transformer core lamination for UPS and other transformers is manufactured from various grades of Cold Rolled Grain Oriented (CRGO) and Cold Rolled Non Grain Oriented steel.

We manufacture strip laminations with 1 hole, 2 holes and 3 holes as per customer design and requirement for UPS, Servo Voltage Stabilizers, control transformers and other special transformers.



E & I LAMINATIONS

We manufacture E&I cores from CRGO and CRNGO in many different dimensions, made to order to customer specification as well as standard grades which are widely used in India for Transformers and Iron core chokes, Ballast and variety of electromagnetic application.



PRODUCT APPLICATIONS

TOROIDAL CORE



TRANSFORMER LAMINATIONS



BUILT UP CORE



STRIP LAMINATIONS



E&I LAMINATIONS



THE INFRASTRUCTURE

List of Major Machinery			
1	Slitting line	600 MM WIDTH	2 Nos.
2	Toroidal CNC Automatic PLC Round CRGO Core Winding Machine	17MM ID X 117MM OD	4 Nos.
3	Conventional Round & Rectangular CRGO Core Winding Machine	17MM X 25MM ID – 1000MM OD	15 Nos.
4	Conventional Annealing Furnace	UPTO 900 DEGREE CELCIUS	5 Nos.
5	Automatic Continuous Roller Hearth Annealing Furnaces	UPTO 850 DEGREE CELCIUS	1 No.
6	Conventional Lamination Shearing Machines		25 Nos.
7	Power Press for V-Notching & Holing	Punching Force 10 Tonnes to 50 Tonnes	8 Nos.
8	EOT Cranes	Capacity up to 10 Tonnes	6 Nos.
9	Deburring Machines		3 Nos.
10	Grinding Machines		3 Nos.
List of Major Testing and Measuring Instruments			
1	Toroidal Core Tester		3 Nos.
2	Single Sheet Iron Loss Tester		1 No.
3	3 Phase Power Analyzer		1 No.
4	Digital Epstein Tester		1 No.

Corporate Office and Unit I Works:

Plot No. C/43-A5, Ferrodie Industrial Estate, Road No. 22,
Wagle Ind. Estate, Thane - 400604, Maharashtra, INDIA

+91 7738144024 (Call/Whatsapp)

Clinton Rasquinha (Partner): +91 9920441255

Alwyn Rasquinha (Managing Partner): +91 9820047095

Works:

UNIT II : Plot R-587/2, TTC Rabale MIDC Ind. Area,
Near Golden Garage, Navi Mumbai - 400701.

UNIT III : Plot PAP R-317-320, TTC Rabale MIDC Ind. Area,
Near Antony Garage, Navi Mumbai - 400701.

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