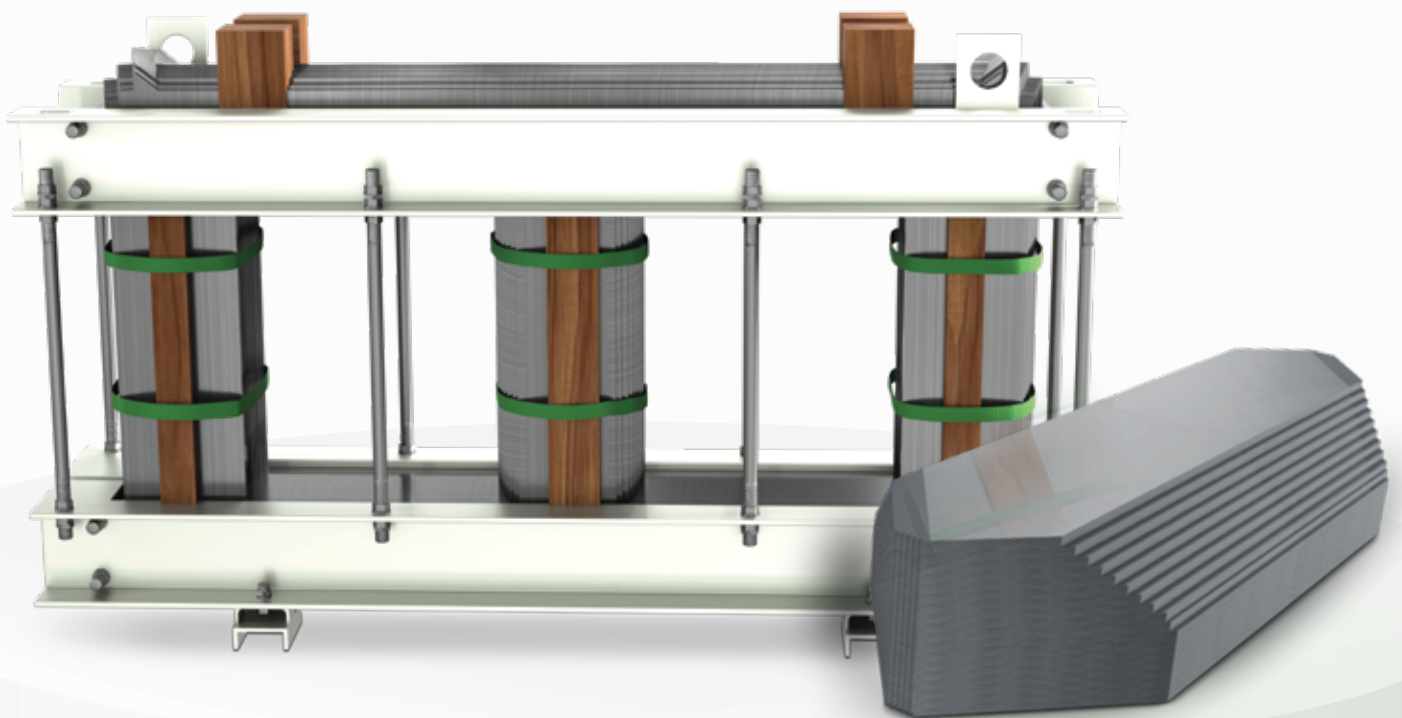




TRUSTED PROCESSOR OF TRANSFORMER CORE



 www.mangals.com

 crgo.export@mangals.com | exports@mangals.com



ABOUT US

& Global Credibility

Engineering
Trust for Over
35
YEARS

Mangal Electrical Industries Ltd., one of India's leading processors of transformer cores, trusted by OEMs across 15+ countries.

Our PQRS Philosophy

Precision · Quality · Reliability · Sustainability
Every core we deliver is built on this promise.

Our Manufacturing Capabilities

CRGO slitting, cutting, and laminations up to 765 kV class, approved by leading utilities including NTPC and PGCIL.

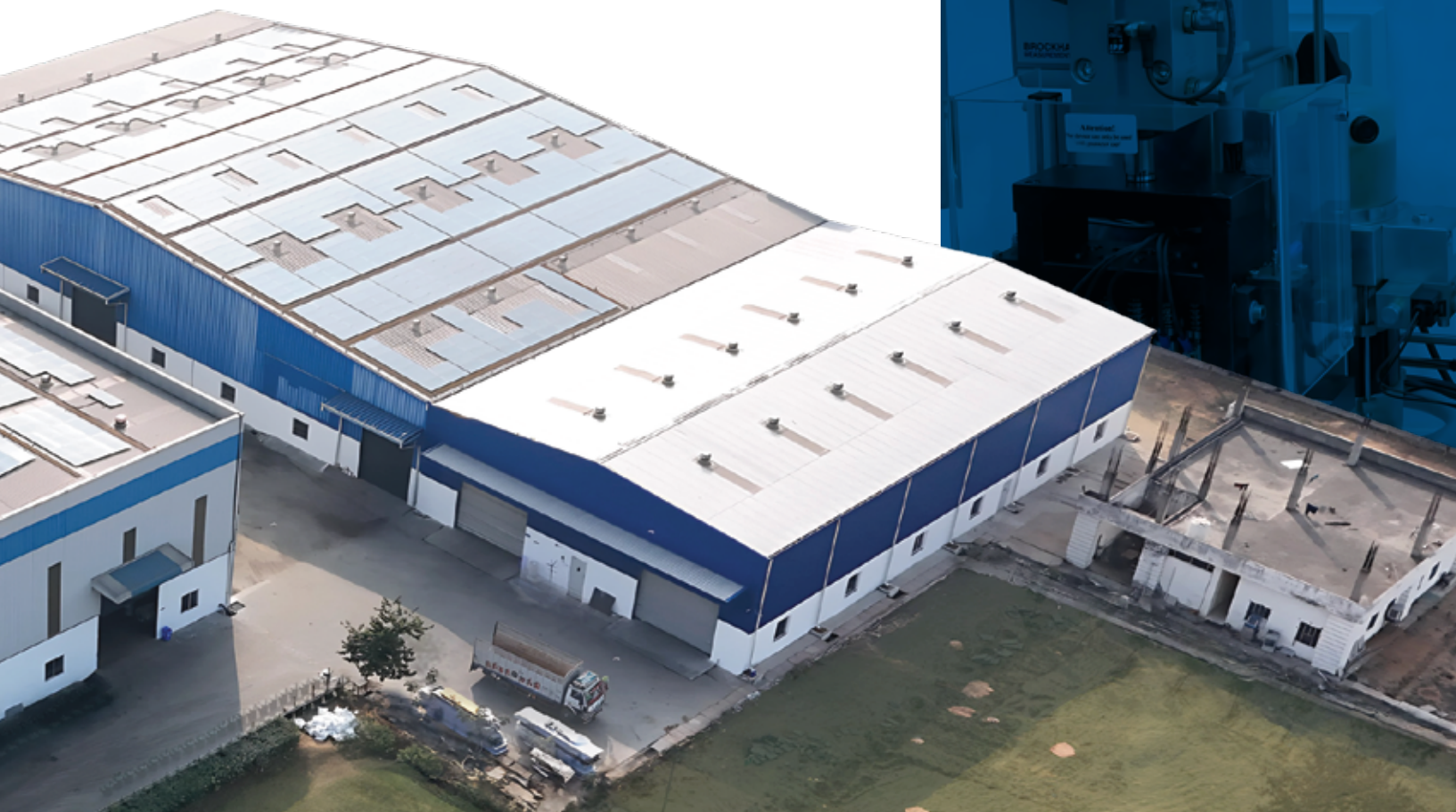
Our Testing Laboratory

In-house NABL-accredited laboratory with advanced German Brockhaus systems, aligned with IEC and ASTM standards.

OVER 100,000 SQ.FT
OPERATIONAL SPACE

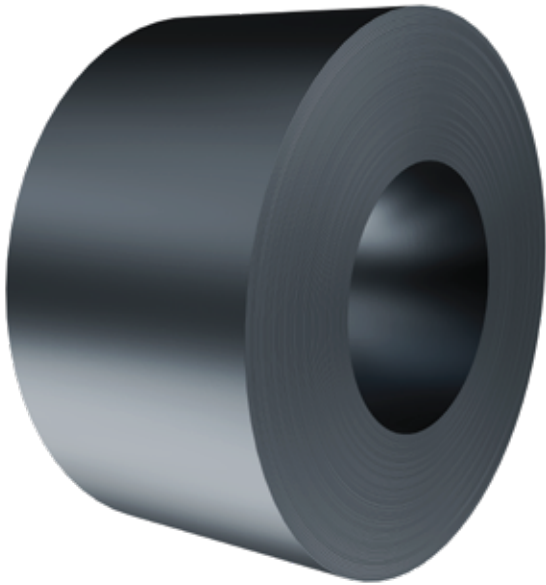


- ❖ All CRGO grades sourced from globally renowned mills
- ❖ Robust infrastructure: 5 units | 40,000 MT capacity | 800+ employees
- ❖ Wide range of advanced processing lines enabling reduced lead times
- ❖ Class 8/9 dust-controlled processing environment
- ❖ Trusted by global OEMs across 15+ countries
- ❖ Export-grade vacuum packaging for damage-free delivery
- ❖ Tip Cut & Slot Punching facility to process any CRGO design, any capacity



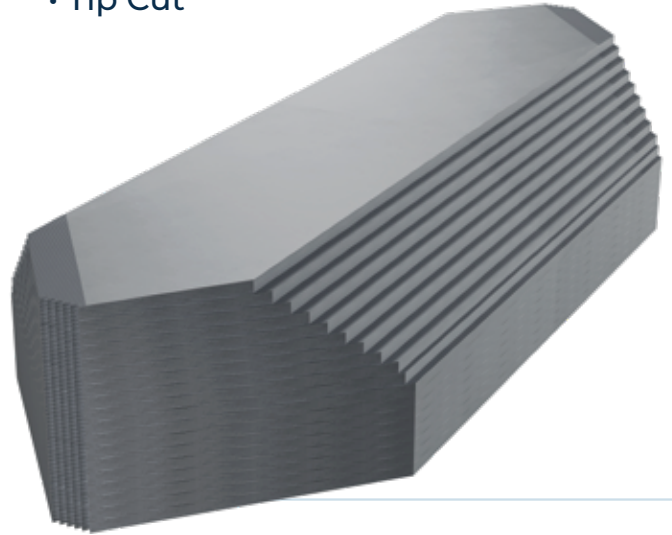
CRGO Slit Coils

- Burr < 8-10 μm
- Width: 40-1250 mm
- Automated coil wrapping for global packaging
- Optional ID protector available



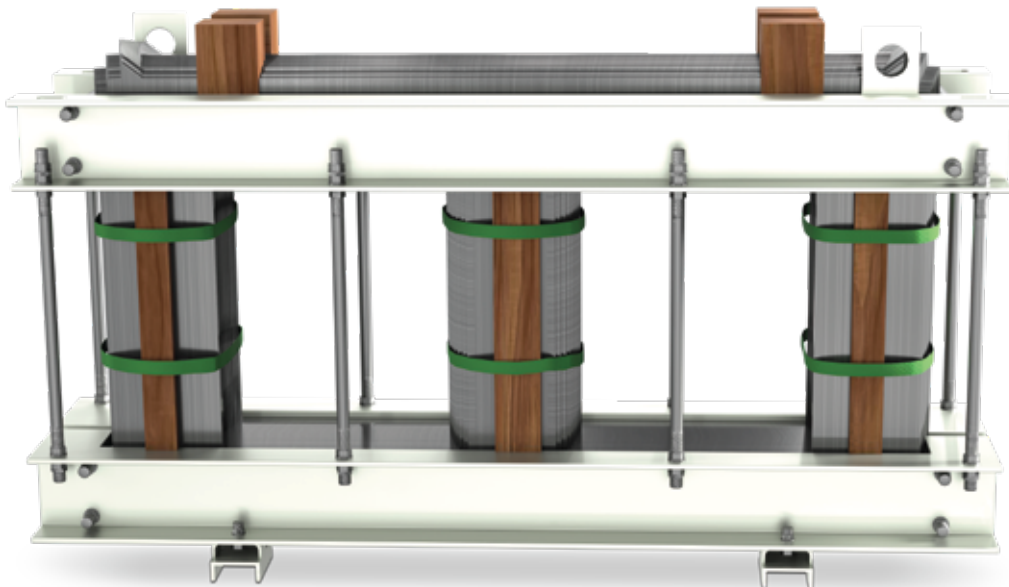
CRGO Cut Lamination

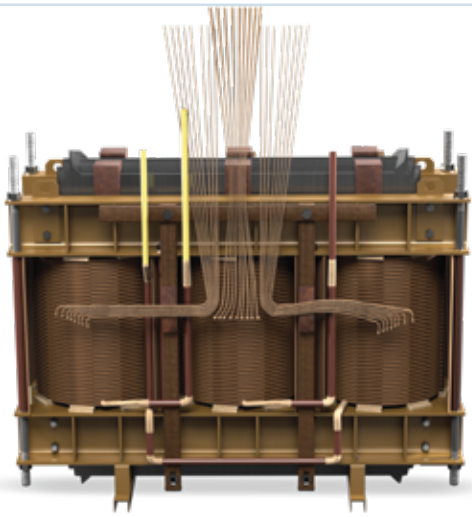
- Pre-tagged laminations with stack height and piece count
- Vertical and Horizontal Step-Lap
- Mitred with traceable labelling
- Slot Punching
- Tip Cut



Core Assembly

- Design Optimization
- MS / Wooden Frame Parts
- Vacuum Packaging





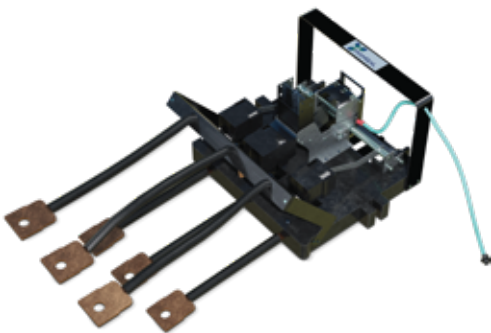
Core Coil Assembly

- Active parts up to 20 MVA
- Complete test facility
- Foil winding up to 20 MVA



Amorphous Cores

- 0.03 mm thin
- 80% lower no-load loss



Oil-Immersed Circuit Breakers

- Custom-engineered for durability
- Minimal maintenance requirements

THE PQRS PHILOSOPHY

At Mangal, we engineer with purpose.
Our philosophy - PQRS - drives our products & culture:



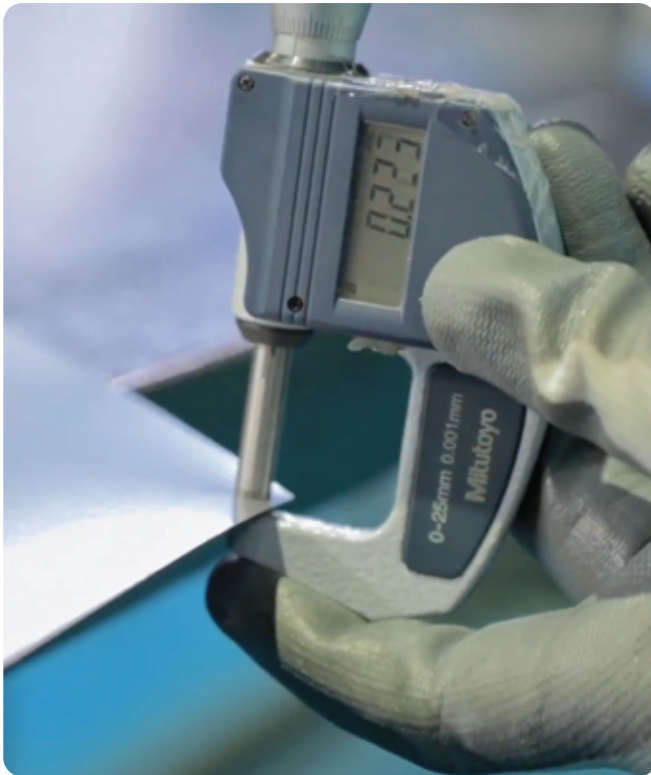
Precision

- 100% raw material testing at incoming stage
- Design verification through mock assembly
- Burr-free slitting & micron-level accuracy
- Core building with NLL assurance

Quality

- ISO 9001:2015 and ISO 45001:2018 certified
- In-house Brockhaus testing lab for testing at every critical stage
- Aligned with IEC and ASTM standards
- Fully dust-controlled plant environment





Reliability

- Proven performance across 15+ countries
 - Trusted by leading public utilities, private OEMs, and EPCs
 - Strong on-time delivery record and responsive technical support
-

Sustainability

- Lean manufacturing practices
 - Operate under ISO 14001:2015
 - Solar power generation and Rainwater harvesting
 - Continuous tree plantation initiatives
-



INFRASTRUCTURE

And Manufacturing

Built for Scale. Powered by Precision.

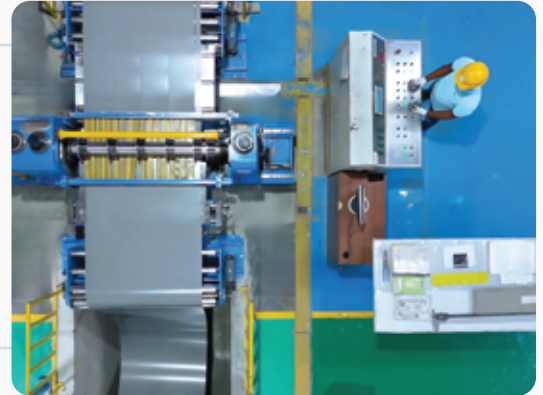
Our manufacturing units span over 100,000 sq.ft across Rajasthan, India- strategically located near export logistics hubs.



Ultra-Clean Processing
Class 8/9 dust-controlled environment to maintain consistent magnetic performance.

High-Precision Slitting

3 slitting lines with tungsten carbide blades for accurate, burr-free edges.



Versatile CTL Capacity | GEORG & SDRI Lines

- 2 x 1000 mm
- 1 x 600 mm
- 3 x 400 mm
- 3 x 200 mm

Advanced Automation

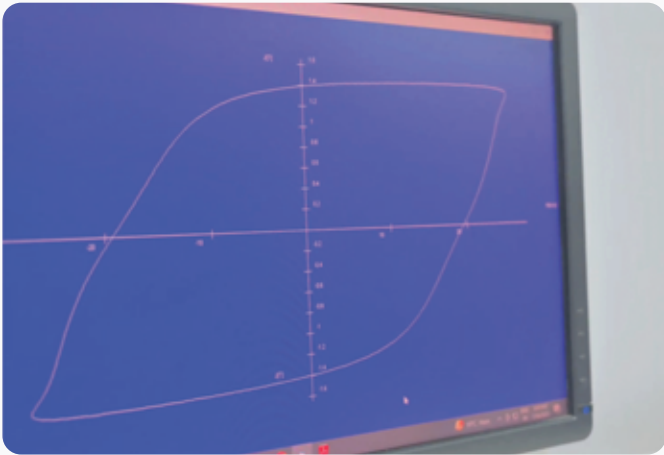
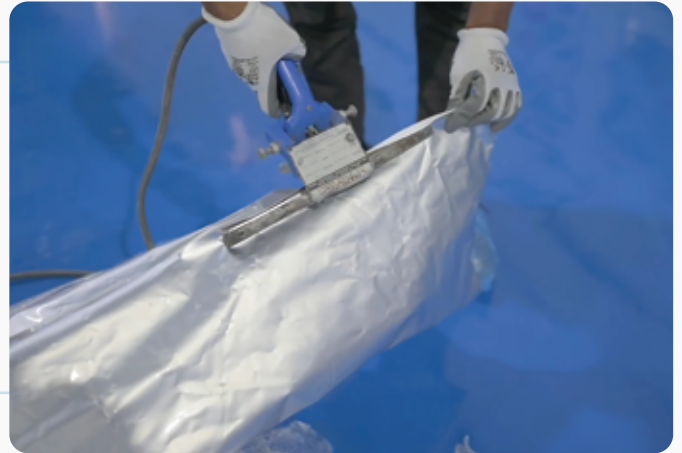
1000 mm CTL line integrated with slot punching and auto-stacking for enhanced productivity and accuracy.





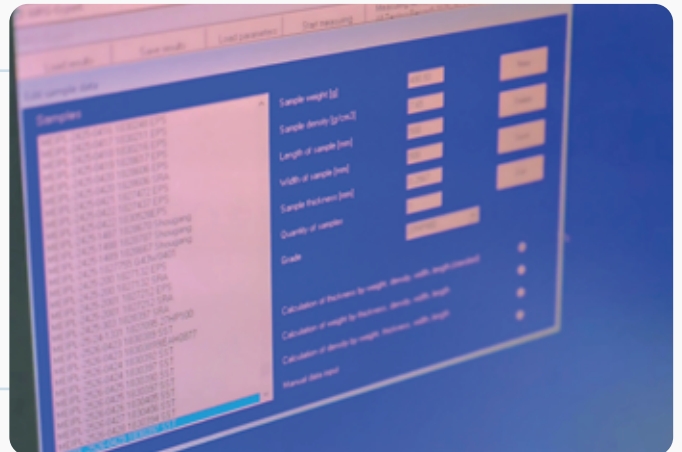
Advanced Testing Lab
In-House NABL and PGCIL accredited German Brockhaus test lab.

Material Handling & Packaging
EOT cranes, clean conveyors, and vacuum packaging lines to ensure safe handling and export-ready cores.



Digital Design & Simulation Tools
In-house design capabilities for customized solutions, including core optimization and loss calculation.

ERP & Traceability Systems
Integrated ERP systems for production control, batch traceability, and quality documentation.



APPLICATIONS



GLOBALLY CERTIFIED

Consistently Reliable.



Our in-house testing lab is equipped with German Brockhaus Messtechnik systems, aligned with ISO 3024:2015, IEC, & ASTM standards.

Certifications & Approvals



Approved by



Export Markets

Powering the World



15+
Countries



ENABLING RELIABLE POWER, WORLDWIDE



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