

Revolutionizing Current Transformer Manufacturing

February, 2026

To establish a fully automated, U.S.-based manufacturing platform for Bushing Current Transformers (BCT) and Preventive Autotransformers (PA), delivering:

- Superior quality consistency
- Significantly reduced lead times
- Competitive cost structure
- Reliable domestic supply capability

Objective

To become a trusted long-term partner to OEM and utility customers

CT Product Selection (1/2)



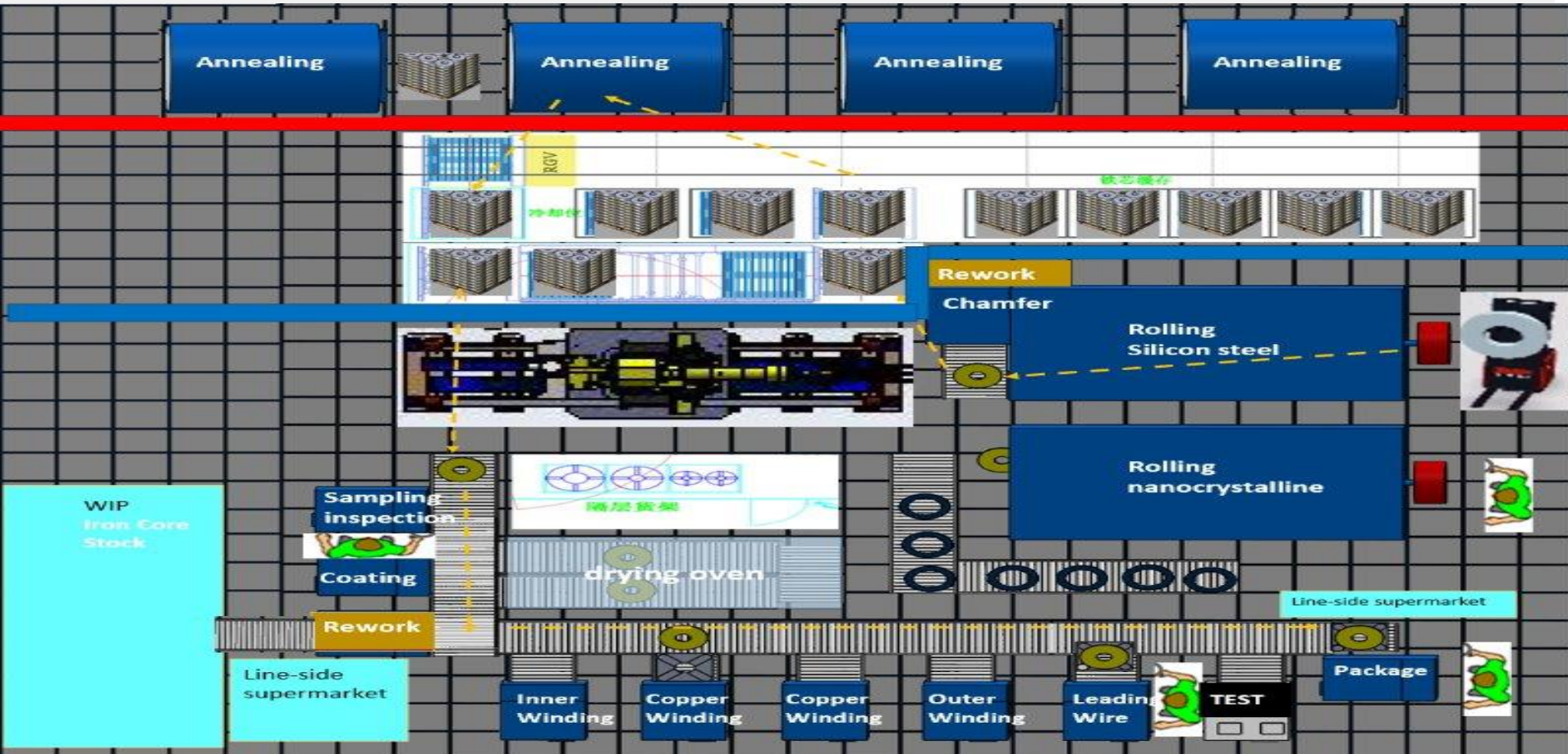
Parameter	Technical Specifications
Primary Current (A)	Single Ratio (SR): 5 to 12000:5 (Refer to IEEE C57.13 Table 9)
	Dual Ratio (DR): 25/50:5 to 2000/4000:5 (various intermediate ratios included)
	Multi-Ratio (MR): 600; 1200; 2000; 3000; 4000; 5000
Secondary Current (A)	5; 1
Short-time Current (kA)	Requires calculation based on specific conditions
Accuracy	Protection Class: Class C
	Metering Class: 0.15, 0.15S, 0.3, 0.3S, 0.6, 1.2, 2.4
Protection Terminal Voltage (V)	10, 20, 50, 100, 200, 400, 800 (Customizable upon request)
Frequency (Hz)	60/50
Circuit Material	Enameled round copper wire: AWG 11, 12, 13, 15, 17, 19, 21, 23
Magnetic Material	Silicon steel (width 20–250mm); Nanocrystalline alloy (width 15–100mm)

CT Product Selection (2/2)



Voltage Level (kV)	Inner Diameter (ID)	Outer Diameter (OD)
500 - 765 (EHV)	>Φ500	>Φ850
345 (EHV)	Φ470	Φ700
230 (HV)	Φ350	Φ650
161 (138) (HV)	Φ280	Φ500
115 (Sub-transmission)	Φ210	Φ450
69 (Sub-transmission)	Φ150	Φ400

Note: All dimensions are in mm unless otherwise specified



Manufacturing Line Highlights

- Modular production design accommodating multiple CT configurations
- Flexible line architecture enabling rapid product changeover
- Process optimization across all manufacturing stages to maximize throughput
- Built-in redundancy to ensure operational reliability

Production Capacity

- Up to 50,000 units annually with 5 direct labor staff
- Scalable to 100,000 units annually with 4 expanded staffing

Operational Timeline

Line installation: October 2026

Full production readiness: December 2026

The Power of Automation

- 100% automated production — industry-first implementation
- Up to 60% reduction in manufacturing lead time
- 15–20%+ cost advantage compared with traditional manual processes

Local Engineering Support

- Dedicated North Carolina engineering team providing direct technical support
- Rapid response via phone, video, or on-site service
- Customized solutions tailored to specifications
- Full compliance with U.S. regulatory and industry standards
- Comprehensive field support and commissioning assistance

The North Carolina Manufacturing Advantage

- Fully compliant with Build America, Buy America (BABA) requirements
- Optimized cost structure with global material sourcing and domestic production
- Typically 4 weeks
- Local engineering and supply chain support for rapid response

Why Choose Grefort Electrical?

Unmatched Quality

Automated manufacturing eliminates human variability and ensures consistent performance

Localized Support

North Carolina-based engineering and service teams provide rapid response

Cost Efficiency

Optimized automation and supply chain integration deliver competitive pricing

Fast Delivery

Domestic production enables industry-leading lead times

Let's Power the Future Together

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