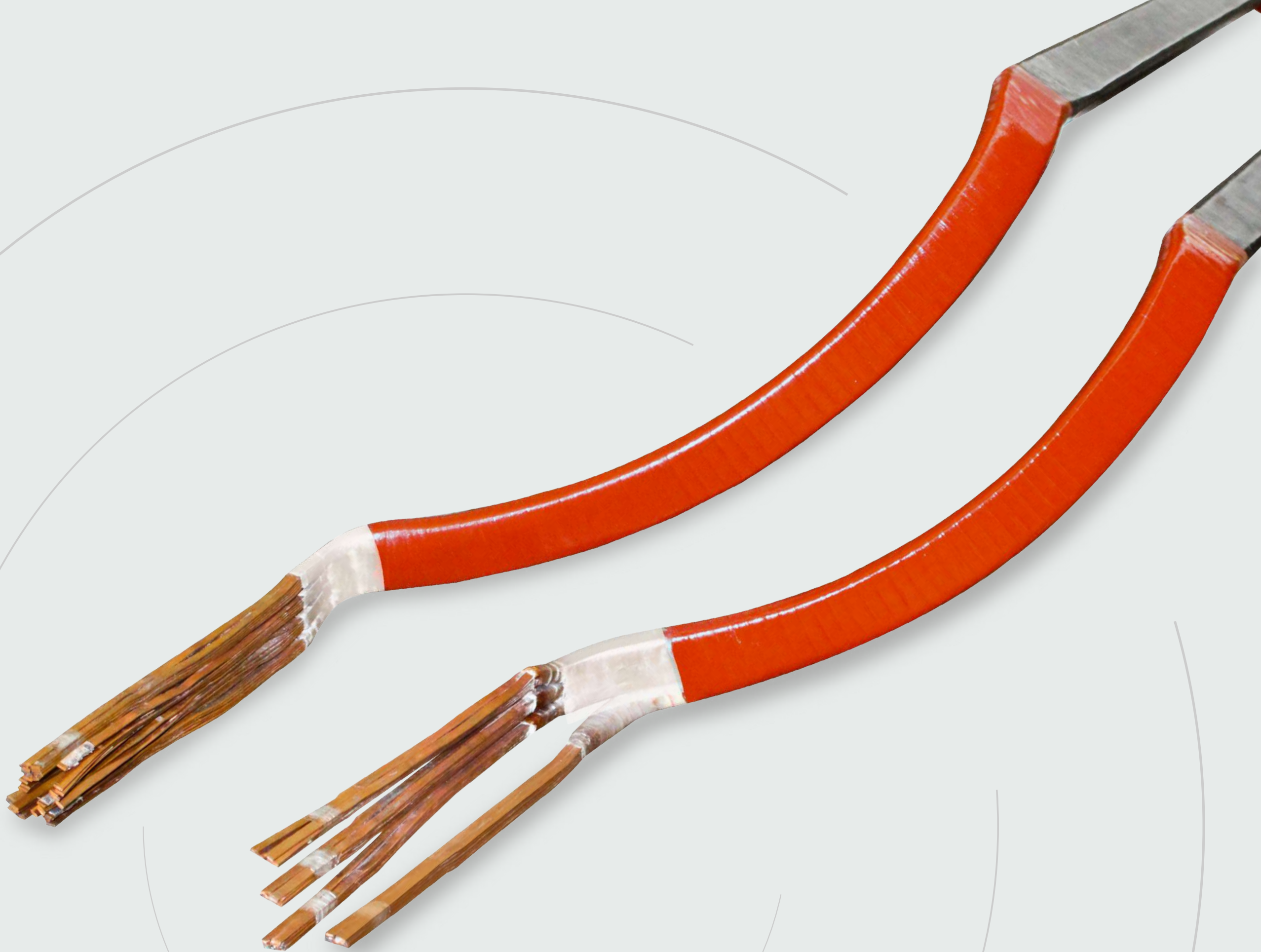




Scope of Work

Manufacture and supply of Fully cured VPI bars

[Top- 40 bars + Bottom - 40 bars]

Using all Class F materials at 9375 kVA.



BASIC INFORMATION ABOUT COIL & MACHINE

REGION	MAKE	kVA	VOLTS	AMPS	HZ	POLES	RPM	INS.CL
USA	GE	9,375	13,800V	-	-	2	3,600	F

Technical Overview

These coils are designed for high reliability and performance, with a robust testing and validation protocol that aligns with global standards.



Final Testing on Individual Coils Includes:

Strand continuity test

- Strand-to-strand isolation (220 VAC)
- Insulation resistance (5 kVDC, IEEE 43)
- End-to-end surface resistance measurement
- Dissipation factor tip-up (IEEE 286)
- Turn-to-turn insulation IR at 2500 VDC
- AC high potential test at 41 kV for 60 seconds
- Partial discharge test (IEEE 1434)
- "Lights out" corona test at 1.5x rated voltage (IEEE 1799)



Type Tests under Execution:

- Voltage endurance (IEEE 1043, 1553) at 110°C
- Thermal cycling as per IEEE 1310

Process Highlight: Roebling Transposition

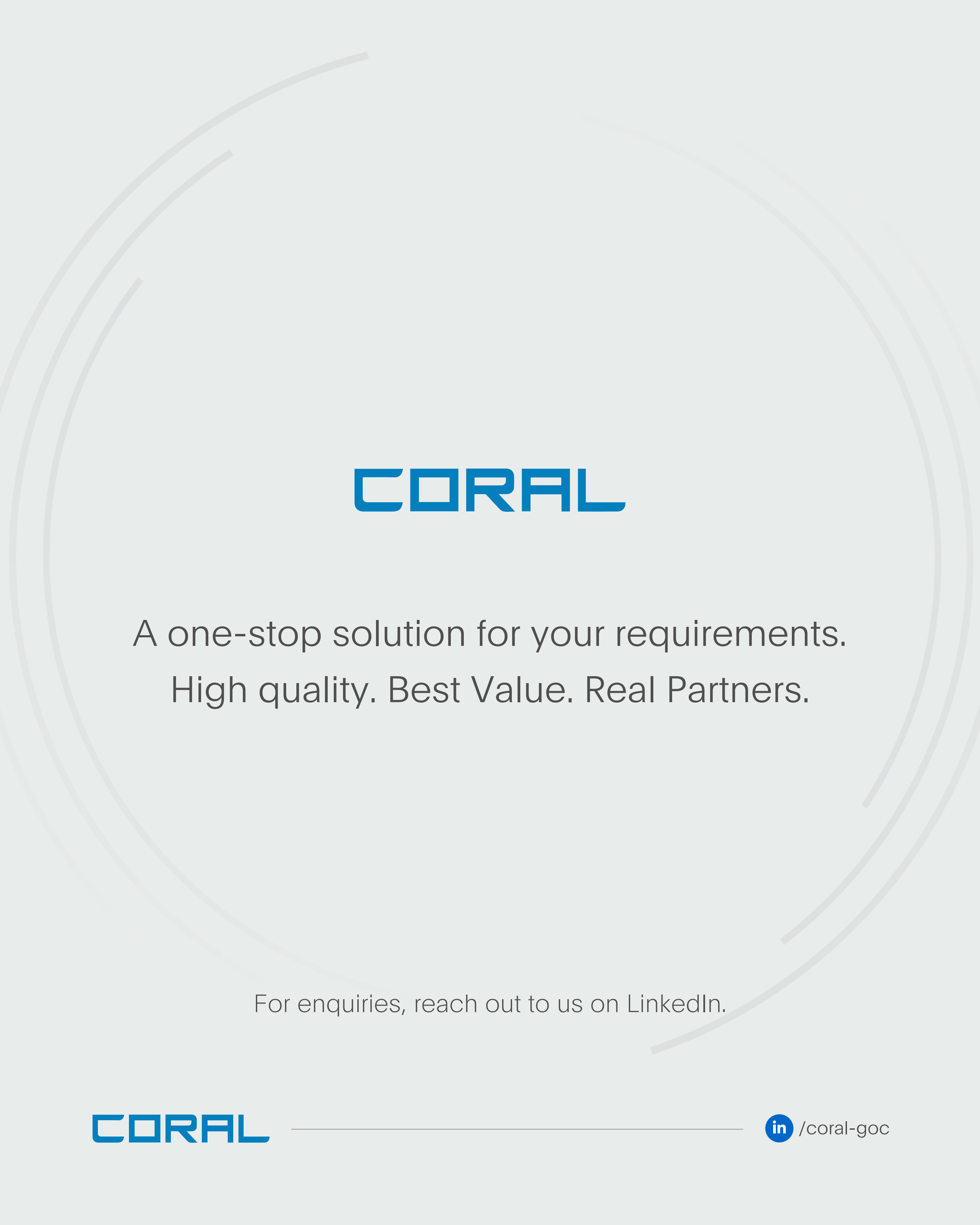
One of the most critical aspects of this project is the Roebling 360-degree transposition process. Turn insulation is meticulously applied for all 40 conductors, grouped into sets of 10 conductors across 4 tires, ensuring uniformity and electrical performance.



Project Status

Manufacturing is in full swing, with dispatch scheduled for the first week of May 2025.

This project is yet another example of how deep technical expertise, combined with process discipline, leads to results that last.



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