

SULZER

Coil manufacturing services

Offering manufacturing services for high-voltage coils,
suitable for generators, motors and other rotating
electromechanical equipment





A history of engineering excellence

Sulzer is a global leader in electromechanical, pumping and turbomachinery engineering. Headquartered in Winterthur, Switzerland, since 1834, Sulzer has delivered innovation and excellence to every industry across the globe.

Located in our Birmingham facility, Sulzer produces high voltage coils trusted by many of the world's most demanding customers and powers many critical infrastructure projects. Every coil is manufactured in-house with full winding, assembly and testing processes to ensure a proven product is delivered to you.

Our customers benefit from our commitment to quality, rigor and the highest standards of engineering. The quality of coils is matched with our technical advice and the understanding of the real-world applications our materials are required to operate in. Every customer can be assured that they have a team of engineers and technicians who deliver a first-class product and after-sales care.



Precise, on-demand coil manufacturing

Around-the-clock coil manufacturing capabilities with short lead times.

Our in-house, highly sophisticated copper rolling mill offers both inline and pot annealing facilities. Therefore we offer around-the-clock coil manufacturing capabilities with short lead times on copper strip. You benefit from our large stocks of continuously-cast soft copper rod, which ensures that we meet your demands quickly.

Pre-production support includes computer aided design and a large database of coil winding information. This enables us to check existing designs, re-design for improved performance and to produce production drawings and process instruction sheets automatically. This together with the high level of investment in advanced production technology, enables us to offer a fully integrated system capability – serving to maintain and enhance the Company's reputation for high quality and rapid service.

The Company's whole operation is backed by the commitment to quality of our dedicated, highly experienced and enthusiastic work force. It is this combination that has gained Sulzer worldwide recognition and has made the company the first choice for those seeking coils of outstanding quality supported by outstanding, reliable service.

Diamond coils:

- Coils up to 6.5m
- Voltage range: LV to 16kV
- Resin Rich, global VPI and Hybrid coils for a variety of resins
- Fully designed winding kits

Stator bars:

- Roebel transposition (180°, 360° & 540°)
- Hydro and Turbo bars available
- 7m pressing capability
- In house glass/Kapton covering

Rotor bars:

- Voltage up to 5kV
- Armature and rotor bars and coils
- Traction bars
- In house glass/Kapton covering



What sets Sulzer coils apart?

Technical excellence

- Design capability to enhance performance
- Over 50 years of coil manufacturing experience
- Pressed coil section with best fit in slot, optimised kV/mm
- In-house test laboratory for thermal and endurance testing
- Extensive database of machines and on site technical support

Quality processes

- Reliable, repeatable quality process
 - Proven record of highest quality product
 - Manufactured in accordance to ISO 9001, 14001, 45001
 - Multidiscipline training for maximum flexibility of labour allocation
- Training program and skills matrix for continuity of knowledge base
 - Quality Assurance Plan Followed: The coil making process is controlled throughout by strict adherence to our QA system which is assessed, approved and regularly audited by our major customers.
 - Industry leading information pack delivered with coils Manufacturing data, photos and approved design drawings
 - Safe and secure shipment: all packaging and transportation of the products has to pass stringent quality controls. Using custom-made, weather protected crates and packaging, delivery is executed by road, air or sea ensuring delivery to our customers on time
 - After sales advice – clear guidelines on storage, aftercare and installation



Endurance testing

Sulzer have invested in a development lab to allow investigations into new materials and processes, which enables us to continue to offer the highest quality coils and bars. The lab is equipped with a 100kVAC test transformer that allows endurance testing to be performed to IEC 60034-18 and IEEE 1553&1043. The lab is also equipped to measure tan delta (power factor) and partial discharge of the coils during the endurance test.

The lab also allows us to easily perform type tests on a set of coils should this be required. We have also successfully performed TVA probe tests, corona camera tests, blackout tests and wet tests on our coils.





Feedback

What our customers are saying

North American customer – 12000 HP 13.2 kV

“The best coils I’ve ever seen in my life have come from Sulzer. This last set that we got from Sulzer looked just as good as the best set I’ve seen”

North American customer - 13.2 kV Stator Coils

“Our winders cannot stop saying enough good things about the awesome quality of these coils and how well they fit and installed in the stator”

North American customer – 9400kW 13.2kV motor

“The winding team remarked that their job was so perfect that other employees couldn’t help but observe the beauty of it”

Swiss Customer – 3200 kVA 8.4 kV

“Quality is really perfect. A moderate higher price is acceptable for us, as we take also into consideration the perfect quality”



Get in touch with us

Birmingham Service Center

6502 Solihull
Parkway
Birmingham B37 7WL
+44 121 766 6161
coilshop@sulzer.com

Chris Adams

Coil Shop Operations Manager
+44 791 718 6429 or +44 121 435 0215
chris.adams@sulzer.com

Steve Reading

Coil Shop Design Technician
steve.reading@sulzer.com

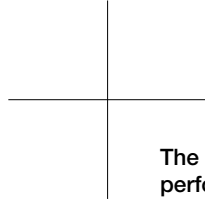
Nathan Phillips

Coil Shop Production Manager
+44 791 749 1637 or +44 121 435 0264
nathan.phillips@sulzer.com

Jack Skett

Coil Shop Sales Engineer
+44 792 021 3484
jack.skett@sulzer.com





The Sulzer Services division is your partner for uptime and enhanced performance for your rotating equipment and more. Our dedicated people provide unrivalled service and expertise to meet your operational needs – anytime, anywhere.

Through a network of over 100 service sites around the world, Sulzer provides cutting-edge parts as well as maintenance and repair solutions for pumps, turbines, compressors, motors and generators. We service our own original equipment, but also all associated third-party rotating equipment run by our customers, maximizing sustainability and life cycle cost-effectiveness. Our technology-based solutions, fast execution and expertise in complex maintenance projects are available at our customers' doorsteps, ensuring minimal downtime.

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