

MARKETS // **PRODUCTS**

# INDIAN HUB FOR COIL PRODUCTION

HEINRICH SCHÜMANN  
Lübeck / Germany  
www.heinrich-schumann.de

**vonRoll**

# REASONS TO WORK WITH US

We have ramped up our new coil manufacturing hub in India (Bangalore) with great success. Serving the most demanding customers including global OEM's with more than 150.000 coils per year!

We are permanently extending our coil shop operations, which are among the most modern facilities out of our 14 sites worldwide.

## ADVANTAGES

- + Leading expertise in form wound coils for rotating electrical machines
- + State of the Art, highly automated manufacturing process
- + Latest equipment set-up in clean, air-conditioned environment
- + Direct access to worldclass insulating materials produced by Von Roll
- + Von Roll quality, consulting and global support

Von Roll is the only company in the world that covers the entire value chain from raw materials, insulation products to the manufacturing of ready-to-install coils. By managing the entire value chain and designing industry leading insulating systems, we are able to reach highest quality standards at competitive costs.

# COIL TYPES AND DIMENSIONS

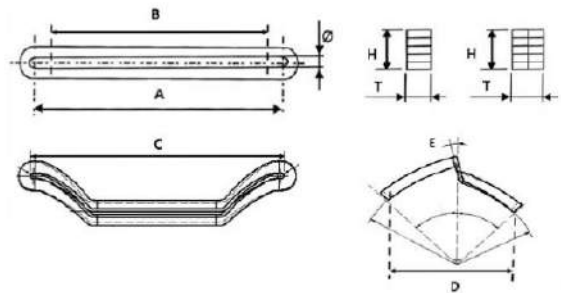


## DIAMOND COILS

Minimum Loop length between eye to eye (mm) A	Maximum Loop length between eye to eye (mm) A	Minimum diameter of the eye (mm) ∅	Maximum diameter of the eye (mm) ∅	Minimum stack border (mm) T X H	Maximum stack border (mm) T X H
400	2500	17	50	5 x 15	25 x 65
Maximum consolidation length (mm) B	Maximum Coil Spreading length (mm) C	Maximum coil Span/Pitch (mm) D	Coil head Spread angle (°) E	Maximum Taping length of the Coil (mm)	Coil Insulation System
1500	2640	850	0 - 35	2640	VPI & Un-Pressed Resin rich

Diamond coils are used in industrial motors and generators as well as in traction motors in the low- and high-voltage area. Our coils are produced for voltage ranges from 690 V to 13.8 kV using rectangular copper or aluminium wire.

### DIMENSIONS



## CONCENTRIC COILS

Type of coil	Length	Width	Number of parallel wires
Tooth or field coil	400 - 1300 mm	40 - 300 mm	1 - 4



# WHEN YOU CHOOSE VON ROLL COILS, YOU GET



Leading manufacturing lines to achieve high quality and productivity results for our customers



Fully integrated value and supply chain to ensure global availability



Fast time to market enabled by top notch in-house High Voltage Technology Center



Series production for leading OEM's with scalable production setup



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The logo for vonRoll, featuring the word "vonRoll" in a bold, blue, sans-serif font. The "v" is lowercase and the "o" is lowercase, while "nRoll" is uppercase.

# WE ENABLE ENERGY

Von Roll is the sole full-range supplier of materials and systems for the insulation of electrical machines as well as high-performance products for various high-tech industries.



## Mica

All materials related to high-voltage insulation. Von Roll's commitment to mica starts with mining and ends with finished tapes.



## System components

Producer of integrated and ready-to-install system components for high-voltage electric motors, railway drives and generators.



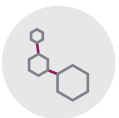
## Cables

Mica tapes for fire-resistant cables. Von Roll provides a wide range of products that are ideally suited to all commonly used standards.



## Resins

Impregnation resins for high- and low-voltage, potting resins, casting resins, as well as encapsulating and conformal coatings.



## Composites

Engineered materials made from a resin and a support structure with distinct physical, thermal and electrical properties. They can be molded, machined or semi-finished.



## Flexibles

Insulating flexible materials for low-voltage applications such as flexible laminates.



## Ballistic Protection

High-quality systems for armored defense based on thermoset / thermoplastic products in single-use or tailored combinations.



## Testing

Von Roll provides electrical, thermal and mechanical testing of individual materials as well as complete insulating systems.



## Training

Von Roll Corporate University provides a training program in high- and low-voltage insulation for its customers.

As one of Switzerland's longest-established industrial companies, Von Roll focuses on products and systems for electrical power generation, transmission, storage and industrial applications.

Von Roll's business portfolio is divided into the following businesses: Von Roll Insulation offers electrical insulation products, systems and services for generators, high- and low-voltage motors, transformers and other applications. Von Roll Composites produces composite materials and parts for a variety of industrial equipment. Other activities of Von Roll include solutions for process engineering tasks in the field of water and wastewater management.