Voith Composites’ rolls are manufactured with a high-precision filament winding process. The endless fiber is pulled from the coil, led through a resin bath and wound onto the mandrel. The mandrel is the negative part of the roll and forms the inside diameter very precisely. The wrapped laminate is tempered in an oven where the resin has the necessary time and temperature to react and cure. This gives the composite structure its stiffness and strength. Finally, the mandrel is pulled from the composite roll. Excellent machinery is mandatory to ensure maximum precision for single-piece production and small series.

Composite rolls by application
- Wire guide roll
- Dryer felt guide roll
- Driven wire guide roll
- Breast roll
- Paper guide roll
- Measurement roll
- Press felt roll
- Glass fiber Nipco shell
- Transmission shafts
- Drive shafts

From a spool of dry fiber to the best balance between performance and costs for your application.
We manufacture rolls up to a 12 m length with a maximum of 1.2 m diameter and up to about 70 mm wall thickness. We support you with adhesive bonding, bold construction and customer-specified force introduction solutions for high loads and torques.

Our rolls include metallic power-transmitting elements, journals, a high-precision balancing ring and assembling load application. Voith Composites’ rolls can be equipped with an extensive cover portfolio serving every possible application: composite, polyurethane and rubber.

Benefits of rolls by Voith Composites

+ Lightweight construction: functional advantages, up to 80 % lighter
+ Low power consumption: higher paper quality during startup
+ Lowest vibrations: precise inner contour for excellent running characteristics and material and energy savings

Certified according to:

• ISO9001
• ISO14001
• EN9100

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