



ECO Antistatic rotoSLEEVE

ROTOMETAL
we are for print

A positive change towards sustainability

rotoSLEEVES ECO Antistatic are a sustainable, environmentally friendly alternative to the standard rotoSLEEVE GlassFibre print cylinder. Our ECO Composite Cylinders are manufactured using materials that are naturally derived as well as those that come from recycling (rPET). It's a perfect marriage of traditional production methods and environmentally friendly materials.

Facts

- ✔ **100% Recycled PET:** We use 100% recycled PET in our products, demonstrating our commitment to sustainability and environmental responsibility.
- ✔ **Health-Conscious Materials:** We prioritize the well-being of our customers by replacing styrene with safer alternatives like Epoxy resin, which contains 30% natural oil sources and BPF (bisfenole F molecule) and unsaturated compounds. This reduces health risks associated with "styrene sickness."
- ✔ **Antistatic carbon coating:** It features an antistatic carbon coating, which helps dissipate static electricity, reducing the risk of electrostatic discharge.
- ✔ **Conductivity < 10 Ohm approved by accredited institute:** The material has a low electrical conductivity, measuring less than 10 Ohms, a characteristic certified by an accredited institute. This makes it suitable for applications where electrical conductivity needs to be controlled.

Advantages:

- Energy-saving material, option of different hardnesses for the outer layer.
- Highly abrasion-resistant, resistant to elevated temperatures and humidity
- High elasticity, vibration damping capacity, tensile strength, self-extinguishing and electro-insulating properties
- Simple design for easy installation on an air mandrel
- Durable inner core
- Significantly reduced weight means the machine is less stressed, which reduces the operational costs
- Lightweight sleeve cylinder is made for easy handling and problem-free mounting on the printing machine
- Positive environmental impact due to rPET recycled materials used in production
- Use of plant-based materials- one of the latest developments in green chemistry



Technical information

Inner diameter	STORK list
Maximum printing repeat	1100 mm
Maximum width	1600 mm
Concentricity tolerance T.I.R	0.01 mm

Conductivity:

	Rotometal	Competitor
Conductivity	Surface & Volume	3 contact point

While some competitors utilize a grounding method that relies on three contact points to channel static electricity, this approach can be unreliable. If the sleeve doesn't perfectly align with the machine mandrel, these contact points may not function, leaving the sleeve unable to effectively distribute charges.

In contrast, Rotometal employs a superior solution: antistatic surface & volume technology. This approach ensures consistent conductivity across the entire sleeve surface & volume, regardless of mandrel contact.

Comparison:

	Rotometal	Competitor
Min/Max Length	300 mm - 1600 mm (2200 mm in December 2023)	350 - 2850 mm
Thickness	1,9 - 70 [mm] // 0.075" - 2.756"	1,9 - 70 [mm] // 0.075" - 2.756"
Shore D	70-80; 80-90 (according to customer's needs and press type)	only 75 Shore D
Working pressure	4 - 10 bar	6 - 10 bar
Operating temperature	90 degrees max	40 degrees max
Standard reference guidelines	OUR STANDARD: 1 longitudinal corresponding to the register notch. OPTIONAL: as many as requested: single double, central, longitudinal, to the sides	1 longitudinal corresponding to the register notch - 1 circumferential in centre
T.I.R.	0.01 mm	< 0.02 mm



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