rotoSLEEVES
Narrow & Wide Web

rotoSLEEVES are composite, ultra-light Printing Cylinders.

Using the latest composite production techniques, we produce our sleeves from the composite itself. This allows the use of other materials such as PET, Polyurethane, Polyester or very durable Epoxy resins.

Our sleeves work with the following substrates:

- PE
- PP
- PVC
- PET
- LDPE
- OPP
- HDPE
- PVC
- PAPER
- RETRACTABLE FILM
- ALUMINUM
- BOPP

Our sleeves work with the following inks:

- Water-based
- Solvent-based
- UV
- EB

Additional features:

- Rubber ring to protect the sides from shocks
- Customization
- Codes, names can be engraved
- RFID chip
- Notches of different types, also on both sides



DFTA Test

The inks:

- Solvent-based

Printer:

- BOBST F&K Flexpress 6S/8

Technical data:

- Eight printing units
- Width 1300mm - Printing width 1285 mm
- Max print speed 500 m/min
- Solvent-based inks
- Anilox: 420 L/cm; 3,6 cm^3/m^2(Width 1330 mm / Diameter 162,36 mm)
- Hard plates used – Digital ACE 1.14
- Hard adhesive used – DuPont DPR 045

The result:

- Colour deviation: Rotometal 0,07 vs. Competitors 0,100
- Less rebound
- Smooth print performance
- High overprint compensation and speed variations
- Impressive stability at 500 m/min – vibration absorption
- Good contrast

rotoSLEEVES **Comparison**



	Aluminium Antistatic	Aluminium Anodised	Aluminium Standard	GlassFiber	Antistatic	ECO Antistatic	ECO	Hydrophobic	
Inner core base layer									**Inner core base layer**
Glass fiber	✓	✓	✓	✓	✓	✓	✓	✓	Glass fiber
Epoxy resin	✓	✓	✓	✓	✓	✓	✓	✓	Epoxy resin
Bisphenol F	✗	✗	✗	✗	✗	✓	✓	✗	Bisphenol F
Conductive auxiliary material	✓	✗	✗	✗	✓	✓	✗	✗	Conductive auxiliary material
Compensation base layer									**Compensation base layer**
Elastomeric polyurethane material	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Elastomeric polyurethane material
Volume layer									**Volume layer**
3D Core Honeycomb	n/a	n/a	n/a	PET	PET	**100% rPET**	**100% rPET**	PET	3D Core Honeycomb
PU Rigid Foam	n/a	n/a	n/a	PU	PU	**ECO PU**	**ECO PU**	PU	PU Rigid Foam
Outer base layer									**Outer base layer**
Glass fiber	✓	✓	✓	✓	✓	✓	✓	✓	Glass fiber
Polyester resin	✓	✗	✓	✓	✓	✓	✓	✓	Polyester resin
Epoxy resin	✓	✓	✓	✓	✓	✓	✓	✓	Epoxy resin
Conductive auxiliary material	✓	✗	✗	✗	✓	✗	✗	✗	Conductive auxiliary material
Volume & surface conductivity	✓	✗	✓ (surface only)	✗	✓	✓	✗	✗	**Volume & surface conductivity**
External layer									**External layer**
Anodised aluminum pipe	✗	✓	✗	✗	✗	✗	✗	✗	Anodised aluminum pipe
Hydrophobic layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	Hydrophobic layer
ShoreD Hardness									**ShoreD Hardness**
Epoxy stem	n/a	n/a	n/a	80-90	80-90	80-90	80-90	80-90	Epoxy stem
Polyester stem	n/a	n/a	n/a	70-80	70-80	70-80	70-80	70-80	Polyester stem

Inspired by Innovation ROTOMETAL