



**ROTOMETAL**  
we are for print

Print Sleeves  
**Catalogue**  
2022/2023

## About us

Rotometal is a leader among European rotary tooling suppliers. Over 15 years of experience has helped us build an invaluable knowledge base that allowed us to establish a strong position in an extremely demanding market.

Here at Rotometal, we aim for continuous and sustainable growth. Our mission is to supply top quality products, at an affordable price, within an industry leading time frame.

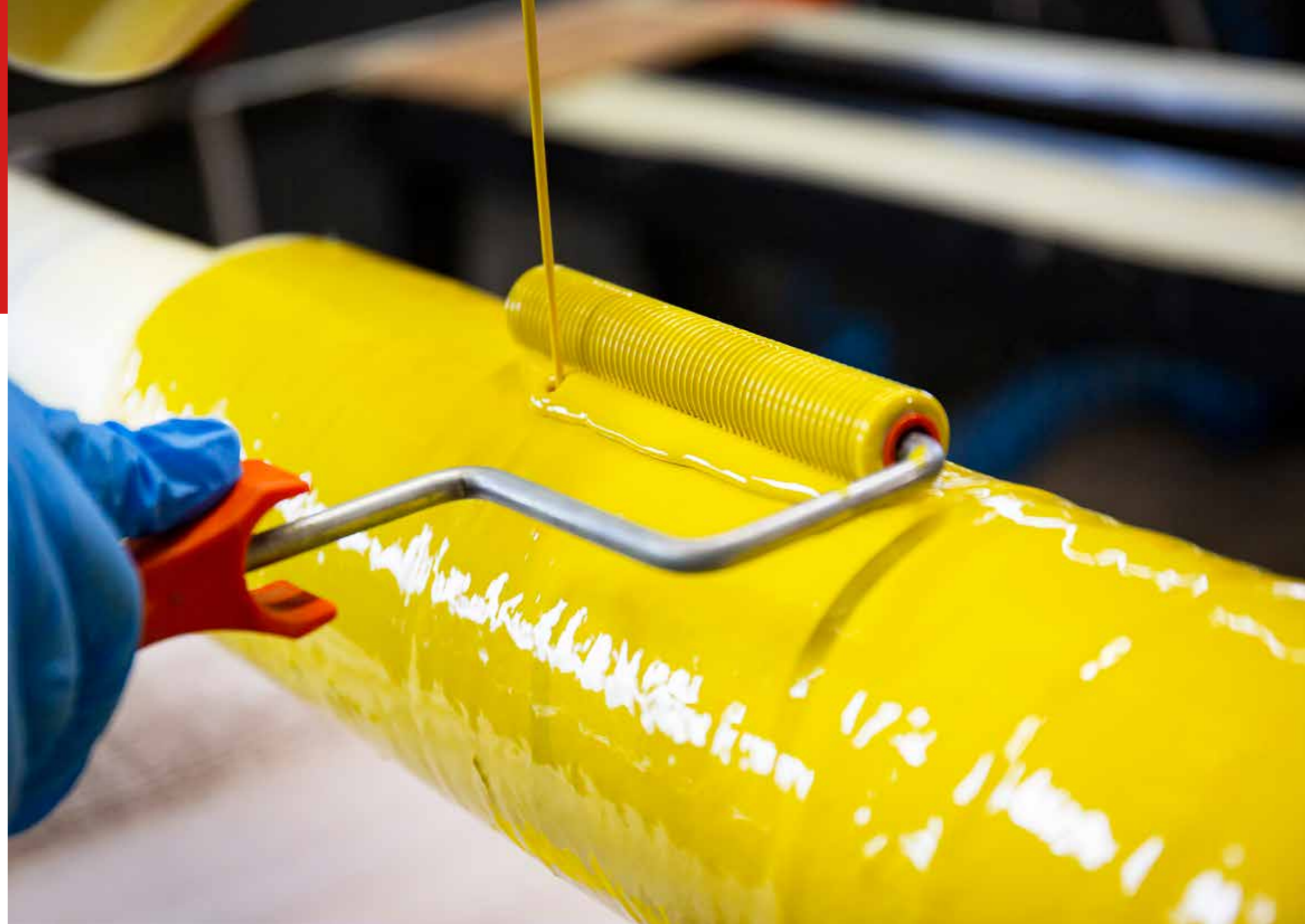
### We are Inspired by Innovation

2021 seen us launching pioneering products and technologies such as IMAG, CRO GF or ANTIFRICTION. However, innovation does not end when a new idea is generated, nor does it stop when that idea is realized and ready for market.

That's why we believe that 2022/23 will be incredibly exciting for us and for you as we have even more innovation, improvements and ideas coming very soon.

We are Inspired by Innovation,  
We are ROTOMETAL.

*Grzegorz Dobniak*  
CEO Rotometal



## Our strengths

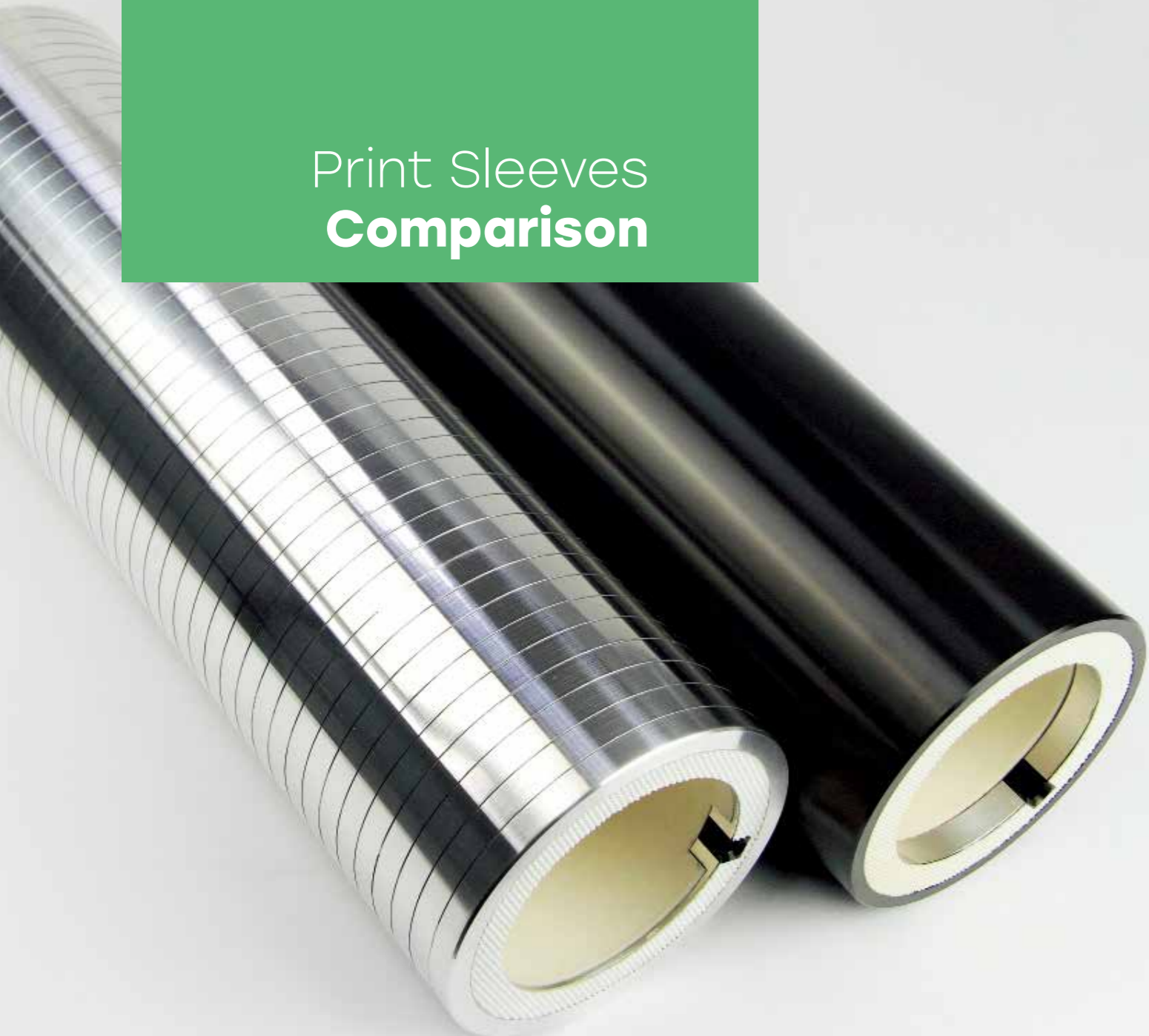
Cutting units • Cutting technology  
Printing technology • Accessories

Our customers are mainly printers, but also the world's largest manufacturers of printing and converting machines. Most of the production is exported, but a large part of it remains in Poland. Precise workmanship, maintaining high quality of offered products at every stage of production, competitive price, have enabled the company to compete with the largest suppliers of this type of tools in the world.

Our strengths are:

- Ability to form long-term partner relationships with our customers
- Providing optimal manufacturing technology
- Great commitment to innovation
- Having our own in-house Design Engineering department
- Machine park equipped in modern CNC machinery
- Offering short lead times

# Print Sleeves Comparison



	CRO Sleeve AL ANTISTATIC	CRO Sleeve AL Anodised	CRO Sleeve AL Standard	CRO Sleeve GF	CRO Sleeve GF ANTISTATIC	ECO CRO Sleeve GF	
<b>Inner core base layer</b>							<b>Inner core base layer</b>
Glass fiber	✓	✓	✓	✓	✓	✓	Glass fiber
Epoxy resin	✓	✓	✓	✓	✓	✓	Epoxy resin
Bisfenol F	✗	✗	✗	✗	✗	✓	Bisfenol F
Conductive auxiliary material	✓	✗	✗	✗	✓	✗	Conductive auxiliary material
<b>Compensation base layer</b>							<b>Compensation base layer</b>
Elastomeric polyurethane material	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Vulkollan	Elastomeric polyurethane material
<b>Volume layer</b>							<b>Volume layer</b>
3D Core Honeycomb	n/a	n/a	n/a	PET	PET	100% rPET	3D Core Honeycomb
<b>Outer base layer</b>							<b>Outer base layer</b>
Glass fiber	✓	✓	✓	✓	✓	✓	Glass fiber
Polyester resin	✗	✗	✗	✓	✓	✓	Polyester resin
Epoxy resin	✓	✗	✗	✓	✓	✓	Epoxy resin
Conductive auxiliary material	✓	✗	✗	✗	✓	✗	Conductive auxiliary material
<b>Volume &amp; surface conductivity</b>	✓	✗	✓	✗	✓	✗	<b>Volume &amp; surface conductivity</b>
<b>Outer layer</b>							<b>Outer layer</b>
Anodised aluminum pipe	✗	✓	✗	✗	✗	✗	Anodised aluminum pipe
<b>ShoreD Hardness</b>							<b>ShoreD Hardness</b>
Epoxy stem	n/a	n/a	n/a	80-90	80-90	80-90	Epoxy stem
Polyester stem	n/a	n/a	n/a	70-80	70-80	70-80	Polyester stem



**NEW!****ECO**  
CRO Sleeve GF

ECO Cro Sleeves GF are the sustainable, eco-friendly alternatives to the regular CRO Sleeve GF.

Our ECO composite sleeves are manufactured using the perfect blend of traditional and sustainable materials.

## Technical details

## Base layer

- Glass fibre reinforced epoxy resin based on Bisphenol F with 28% carbon originating from biomass
- Vulkollan - polyurethane fast shape recovery rubber - thermal resistance up to 200C

## Volume layer

- Light 3D core material with honeycomb structure made out of 100% recycled PET

## External layer

- Glass fibre reinforced Bisphenol F epoxy resin with 80-90 Shore D hardness
- Glass fibre reinforced free of styrene polyester resin with 70-80 ShoreD hardness

**Technical**  
detailsImprovement  
of product life

## Special lock

- Milled
- Fixed using adhesive
- The fasteners hide under protective rubber

## Safety rubber

- Outer diameter perfectly matched
- High mechanical resistance
- Aluminum products can be protected

# CRO Sleeve Glass Fiber Print Cylinders

Composite Rotometal Sleeves (CRO) are ultra-light Printing Cylinders.

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

## Technical details

### Base layer

- Made of glass material and epoxy resin
- High thermal resistance
- High dimensional stability
- The possibility of placing additional information

### Compensating layer

- Vulkollan, extremely resistant and resilient
- Fast shape recovery, up to 60% energy return
- Protected with a layer of reinforced resin

Layers responsible for the behavior of the sleeves during application on the mandrel



## Technical details

Layers responsible for weight reduction and surface life:

### Volume layer

- Honeycomb, PET or XPS materials
- High thermal and chemical resistance
- Closed volume - less resin
- Reduction of weight

### Outer layer

- Glass material saturated with colored resin
- Possibility of making any color
- High hardness 80-90ShD and dimensional stability
- High mechanical resistance

Improvement of product life:

### Special lock

- Milled
- Fixed using adhesive
- The fasteners hide under protective rubber

### Safety rubber

- Outer diameter perfectly matched
- High mechanical resistance
- Aluminum products can be protected

# CRO Plate Mounting Sleeve

## Wide Web ANTISTATIC Print Cylinder

CRO Plate Mounting Sleeves have been designed to be the best print cylinder for solvent inks.

Using the latest production techniques we produce our sleeves with a base composite layer with an ANTISTATIC carbon coating. This coating has excellent conductivity that has been independently verified by a registered body. This combination means our CRO Plate Mounting Sleeves are recommended and designed for solvent inks.

### Technical details

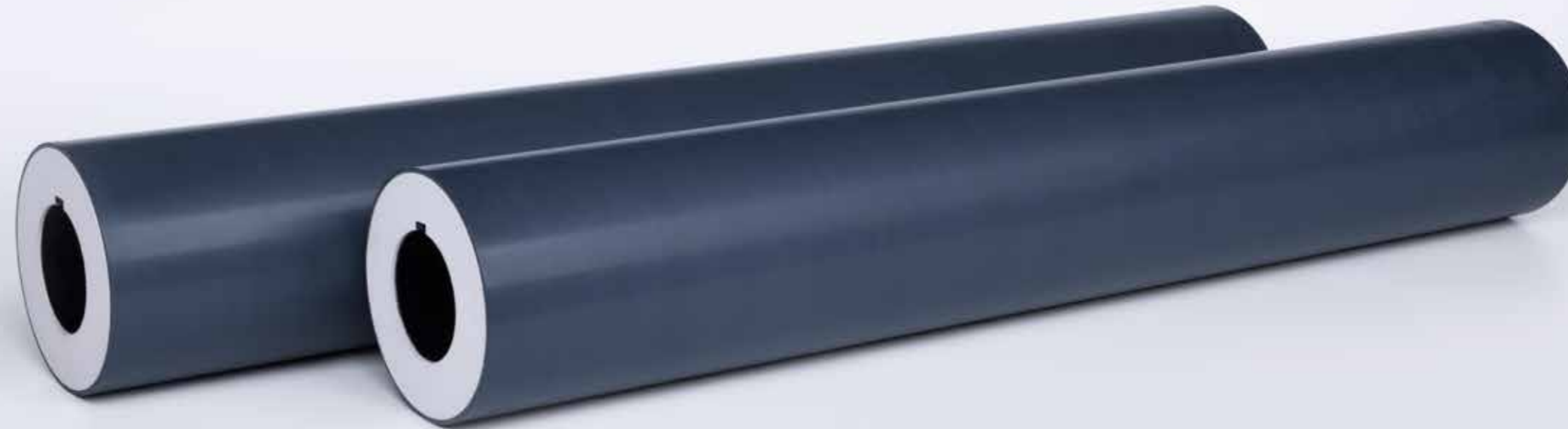
#### Base layer

- Made of glass material and epoxy resin
- High thermal resistance
- High dimensional stability
- The possibility of placing additional information

#### Compensating layer

- Vulkollan, extremely resistant and resilient
- Fast shape recovery, up to 60% energy return
- Protected with a layer of reinforced resin

Layers responsible for the behavior of the sleeves during application on the mandrel



## Technical details

Layers responsible for weight reduction and surface life:

#### Volume layer

- Honeycomb, PET or XPS materials
- High thermal and chemical resistance
- Closed volume - less resin
- Reduction of weight

#### Outer layer

- Custom ANTISTATIC carbon coating
- Surface conductivity value  $<10^5$  Ohm
- Value of cross conductivity  $<10^6$  Ohm
- Safety certified by an independent accredited body
- Colour - Steel Blue

Improvement of product life:

#### Special lock

- Milled Fixed using adhesive
- The fasteners hide under protective rubber

#### Safety rubber

- Outer diameter perfectly matched
- High mechanical resistance
- Products can be protected



DFTA tested and certified (Stuttgart)

## Antifriction Print Sleeve

ANTIFRICTION means greater efficiency  
and productivity at the plant level.

Rotometal has developed a new method for hardening printing sleeves: ANTIFRICTION. It is a breakthrough solution that optimizes the friction properties and smoothness of the coating thanks to the use of the Polimeroxid®matrix, which is cross-linked with a special LF4 polymer over the entire thickness section.

The use of this innovative method in the production of our printing tools has resulted in exceptional surface smoothness while maintaining high hardness, around 450 HV, depending on the aluminum alloy used.

This pioneering solution has enabled us to produce tools with unprecedented performance properties, which, by combining high strength and optimal grip, distinguish us from other suppliers.

Preparing the sleeve for work has never been easier. Thanks to the ANTIFRICTION coating, the foam tape fixing the polymer sheets is easy to change and takes much less time.



## Technical details

- Completely new Polymeroxid® - matrix
- High surface smoothness
- Coating hardness around 450HV
- Optimal foam adhesion
- Quick foam replacement without adhesive residue on the cylinder surface





## CRO Sleeve Aluminium Print Cylinders

In our product range, modern sleeve print cylinders can also be found. These cylinders can be produced using aluminum as a working surface. The surface can be supplied as a standard or with an anodized finish. Easy and fast assembly, high working precision are very good arguments for using them. Less waste during the mounting of plates, better adhesion of the tape and reduced weight are also their advantages.

### Technical details

- Easy and fast assembly on air mandrel
- High durability inner core
- Light construction



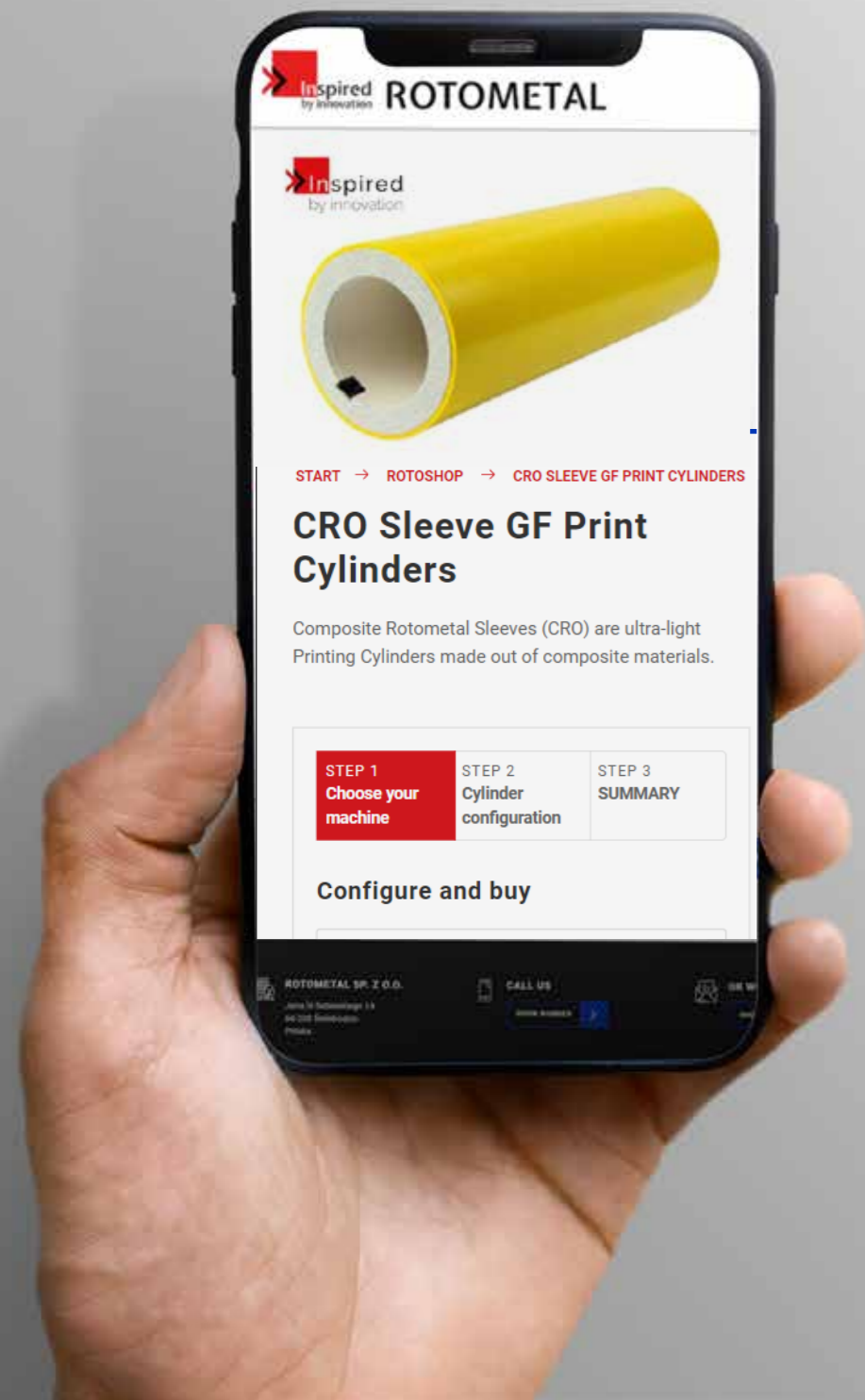
## Anilox Sleeve Base

Maximum length - 1800 mm (71")  
 Diameter from 1800 mm (3") to fi-200mm (8")  
 Lightweight construction  
 Easy assembly and disassembly  
 Working pressure 6-8 bar

The base for the anilox sleeve is finished with stainless steel rings for better corrosion protection.







**Your next sleeve is just 3 clicks away**

**1. CHOOSE your product**



**2. CHOOSE your machine**

**3. CHOOSE your configuration**



[rotometal.pl/rotoshop](https://rotometal.pl/rotoshop)



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