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ROTOMETAL

we are for print

Product
Catalogue
2025

About us

Rotometal is a leader among European rotary tooling suppliers. Nearly 20 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.

Our Mission

Rotometal enables success with innovative and high-quality tools, while improving, expanding and creating value for the industry and stakeholders.

Our Vision

Driven by our passion for delivering high-quality and durable products that cater to the diverse needs of our customers, we constantly strive to push the boundaries of what's possible. We firmly believe that innovation is not just a choice but a necessity in our pursuit of excellence and long-term sustainability.

Through continuous investment in research and development, we explore cutting-edge technologies and materials to enhance our performance and efficiency. Our dedication to innovation allows us to stay ahead of the curve and maintain our position as a leader in the industry.



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



Scan me for a factory
and product tour

Our Business Units

In an effort to streamline and optimize our operations, we've undertaken a strategic initiative to divide our business into three core units, each specializing in key aspects of our product offerings and market segments. This division aims to enhance our focus, efficiency, and customer-centric approach across various facets of our business.

The first core unit will revolve around hard tooling, encompassing our flagship products such as magnetic cylinders, anvil cylinders, print cylinders, and gears. These are the foundational elements of our manufacturing process, essential for precision and quality in various industries. By dedicating a specialized unit to hard tooling, we aim to prioritize innovation, quality control, and customer satisfaction within this critical segment of our product portfolio.

The second core unit will be dedicated to composite tooling, with a primary focus on composite sleeves tailored for both wide web and narrow web applications. Composite tooling plays a pivotal role in addressing the evolving needs of our customers, offering versatility, durability, and superior performance in demanding production environments.

The third core unit of our business will be dedicated to consumable products, with a primary focus on inks and varnishes. This unit represents a crucial aspect of our value chain, providing essential materials for printing and packaging applications across various industries.



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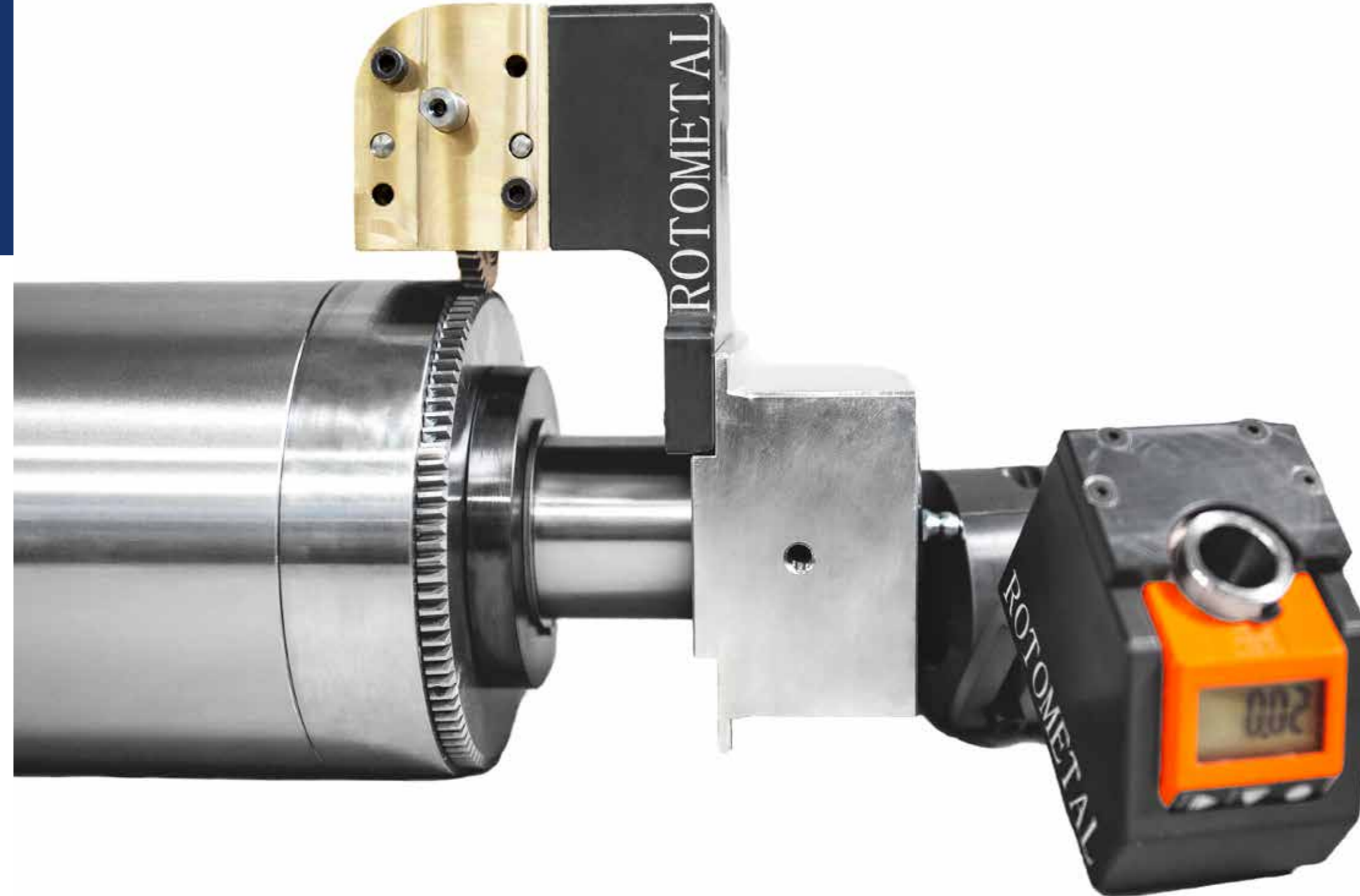
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rotoGAP

Rotometal Adapted Gap System - rotoGAP - is an adjustable Anvil Cylinder that allows precise adaptation of the gap between Anvil and the Magnetic Cylinder, guaranteeing the highest possible quality of the punching process.

Thanks to the use of Rotometal's adaptive system, the gap can be adapted depending on the variables. These can include die wear, quality and thickness of the substrate or other variables that may adversely affect the quality of punching.

The control is carried out by means of 2 knobs placed according to your requirements. Each of the knobs independently controls one of the tracks, adjusting the gap for the best punching quality. RAG System can successfully replace an existing Anvil cylinder, making the work easier and more efficient.



Technical details

Advantages

- The ability to replace your current Anvil
- The gap can be adjusted every 0.5 μm
- Adjustment for each side of the cylinder both during standstill and during operation
- Adjustment range +/- 100 μm

RAG System includes

- rotoGAP Anvil Cylinder
- Support cylinder
- Control knobs with indicator

AluLite Magnetic Cylinders

Rotometal introduces a new type of magnetic cylinder: AluLite. It is a new product family that provides all the features of the standard Magnetic Cylinders currently available, while optimizing cylinder weight and shipping costs..

The hard aluminium used in AluLite cylinders is used in the aviation and space industries, ensuring low weight with very high strength and high hardness.

We recommend making cylinders in the new technology for cylinders over 120T, which ensures a weight reduction of nearly 50%, facilitating assembly, disassembly, use of the cylinder and its storage.



Did you know?

You can now upgrade to AluLite for Magnetic Cylinders as small as 96 teeth!

Technical details

The new technology retains all the most important parameters of the standard technology:

- Corrosion-resistant body
- Magnetic force maintained throughout the product life cycle
- Hardened raceways with a hardness above 60HRC
- Possibility of cylinder regeneration
- Easier assembly of flexible die thanks to the mounting line
- Possibility of making additional pins for additional protection against displacement
- Axial runout precision -0.01mm ($-0.0004''$), cylinder gap 0.003mm ($0.0001''$)
- Fast delivery time

Weight of 120T cylinder ~ 26kg

Weight of 200T cylinder ~ 50kg

Diameter up to 360 mm

Total length up to 1600 mm

Total weight up to 350 kg

Shield Magnetic Cylinders

Magnetic Cylinders Shield have been designed to optimize cylinder performance in the most effective way. We guarantee:

- ✓ Reduced weight that makes it easier to set up the machine and as a result shortens the time required to prepare for work.
- ✓ Light construction, which allows extending the life of the cylinder and gear. This also reduces the load on the machine components and associated tools.
- ✓ Reduced risk of damaging the magnetic part as a result of hiding delicate magnets inside the body.
- ✓ Anodized surface that gives protection against scratching of the cylinder surface.
- ✓ Savings related to lower transport costs and lower energy consumption due to the reduced weight.



Stainless Steel Magnetic Cylinders

The use of the highest quality materials and the most modern CNC machines, which combined with many years of experience guarantees you the highest quality and precision of workmanship.

Our Stainless Steel Magnetic Cylinders are manufactured to a high quality standard that assures accuracy and consistency of the final product. Body made from nonmagnetic stainless steel provides an excellent protection against corrosion, does not deprive the strength of magnet power and enables high and equal adhesion of flexible die during use. Bearers made from high quality tool steel hardened above 60 HRC ensure long term and trouble-free performance. Optimum grip of flexible die is obtained by using ferrite magnets. For special jobs and better adhesion, strong neodymium magnets are recommended as an alternative or additional option. The light weight of the magnetic roll is also possible when the body is made from aluminum or is hollow inside. Minimum gap size tolerances guarantee the highest precision of cutting.



Anvil Cylinders

Anvil cylinders made of hardened tool steel. In order to achieve the highest manufacturing accuracy, these cylinders are manufactured on the most modern CNC machines.

Rotometal supplies Anvil Cylinders as well as Support Rollers made from high quality tool steel. Depending on the customer needs, it can be induction hardened or through hardened up to 62 +/- 2 HRC. Anvils can also be made as plus or minus cylinders to compensate for the difference in material thickness. Highest precision of execution ensures best possible pressure parameters, increases the lifetime, reduces the wear of dies, plates and press. Short manufacturing lead time.



Technical details

- At the customer's request, there is a possibility of induction hardening or through-hardening
- Guaranteed hardness of 62 +/- 2 HRC
- The possibility of making a variable diameter of the working surface

Sheeter (cross cutter)

Sheeters for perforating, cutting and kiss cutting. The tools are supplied with replaceable hardened blades

Our removable blade sheeters are precisely manufactured with CNC machinery to guarantee high center-to-center and square accuracy in order to provide best cutting effect. Two types of blades - for cutting and perforation - to suit different requirements. On customer request the slots can be located at equal or special position around the roll.

- ✓ Quick and easy blade replacement
- ✓ Exceptional manufacturing precision and accuracy
- ✓ High quality of cutting and perforation
- ✓ Fast setup time
- ✓ Wide range of cutting blades available

Technical details

- Two types of replaceable knives available - for cutting or for perforation
- Arrangement of knives tailored to customer requirements



Embossing Cylinders

Rotometal embossing cylinders make full use of all the advantages of the embossing technique. This consists of, in essence, squeezing the material between two hard forms - named male and female.

Our cylinders are produced for the method of cold embossing, i.e. creating a three-dimensional pattern in the embossed material by squeezing a die / matrix in order to emphasize the previously printed pattern, e.g. an inscription, logo or a decorative element.

An additional advantage of Rotometal embossing cylinders is that the pressing takes place at the ambient temperature.

ANTIFRICTION Print Cylinders

ANTIFRICTION means greater efficiency and productivity at the plant level.

Rotometal has developed a new method for hardening printing cylinders: 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 cylinder 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



Standard Print Cylinders

Our print cylinders are made of aluminum or steel. The working surface can be anodized to protect it from scratching.

Our print cylinders are made of special aluminum material or steel. The working surface can be anodized to protect it from scratching. The plate cylinders can be made of tube to reduce the weight. All cylinders are supplied with standard gears, but for better quality of print we can also supply it with hardened and ground gear. Rotometal manufactures printing cylinders for all flexo machines.

- ✓ High accuracy
- ✓ Scratch proof
- ✓ Horizontal and vertical guide lines for easy plate assembly
- ✓ Short manufacturing lead time



Technical details

- Made of aluminum or steel
- The cylinder surface can be anodized, making it less susceptible to mechanical damage.
- The cylinder can be equipped with standard or hardened and ground gears to ensure high quality printing.

Anilox Base Cylinders

Anilox Base Cylinders produced by Rotometal offer a robust foundation crucial for maintaining optimal press performance and print quality.

Crafted from durable steel or aluminum materials, the anilox core provides stability and longevity to support the intricate surface engravings and coatings essential for precise printing processes. A defective core can significantly compromise press performance, print quality, and engraving consistency, underscoring the importance of a reliable and sturdy foundation.

Rotometal's commitment to quality is evident in their utilization of super-hardened stainless steel anilox bases ensuring unparalleled durability and stability under the rigors of printing operations.



Technical details

- Maximum length - 1600mm
- Maximum diameter - 320mm
- Maximum weight - 300kg
- Maximum axial runout accuracy - +/- 0.01mm

Air Cylinder

Air cylinders with an air adapter for applying rubber sleeves and sleeve printing cylinders. This solution allows you to work on the entire surface of the rubber sleeve and print endlessly.

Rotometal offers different kinds of tint kits for varnishing and other applications. The installation of the rubber is quick and easy. There are two collar rings to secure the rubber sleeve in position. This solution allows it to work on the entire surface of a rubber sleeve and enables an endless printing.

Technical details

- Work with a wide range and lengths of rubber sleeves
- Available also with adaptor for easy air supply
- Quick and efficient cylinder assembly
- Covers wide range of applications



Rubber Coated Cylinder Base

Rotometal offers bases for rubber coated cylinders.

Bases for rubber coated cylinders also known as varnishing cylinders, lacquering cylinders can be supplied for wide range of machines. The base cylinder can be made from steel or aluminum with various types of gears upon customer request.

- High precision workmanship
- Fast delivery time

End rings

We offer End rings made of aluminum in the standard or anodized version.

We supply End Rings made from aluminum in a standard or hard anodized version. Application of modern manufacturing technology enables us to provide the highest quality of this product. Available for almost all types of screen printing cylinders.

Technical details

- Available for most machines
- Different designs depending on the type of machine
- Short delivery time



Bearing housing

Bearing housing are an indispensable element of a magnetic cylinder, anvil, support cylinder, embossing cylinder or knife sheeter

Gears

We supply a variety of gears which are typically produced from steel, although other materials are also available.

We can supply a variety of gears which are typically produced from steel, although other materials are also available. Helical or spur teeth gears can be offered in standard quality and also hardened and ground to reduce the noise, eliminate backlash problem and to ensure high quality of print. On customer request the product can be customized to ensure individual requirements.



Technical details

- ✓ Possibility to use different materials
- ✓ High precision of execution allows the use in the latest machines
- ✓ Hardened and ground gears in print cylinders guarantee the highest print quality

Cutting Units

Perfect solution for small production and samples. Can be used as an additional module in existing machines.

Perfect solution for small production and samples. Can be used as an additional module in existing machines. Equipped with a Rotoset pressure control system. Different working widths and rotary tooling configuration. Manually or mechanically operated. The frame can be made from steel or aluminum. Designed to individual customer needs and expectations.

Technical details

- Width, configuration tailored to individual customer needs
- All elements made using high quality CNC machines
- Can be installed as an additional machine module
- Body made of aluminum or steel



rotoSET control

Pressure gauges to regulate and monitor cutting pressure for rotary cutting tools. These ensure an efficient and controlled process for all cutting, notching or perforation tasks.

This easy-to-use system allows machine operators to monitor the force applied to the punching tools on easy-to-read gauges. The height of the set screw can be easily adjusted immediately after changing jobs with the quick-latch system. The working range of the manometer is max 160 bar. To meet our customers' expectations, it is possible to use pressure gauges with a reading in kN (max 12.5 kN). We can supply a gauge system that can be retrofitted to most die cutting stations.

- ✓ Available for most machines
- ✓ Various designs depending on the type of machine
- ✓ Reduces wear and damage to cylinders and flexible dies caused by the application of excessive pressure

Mobile Cylinder Rack

Rotometal supplies advanced storage solutions which make cylinder racking easy and convenient.

Cylinder storage rack is a safe and cost effective solution which protects the tools from accidental damages, maximize machine operator safety in the workplace and help organize working areas. Recommended for use where cylinders may be exposed to any possible equipment collisions. Available in standard and custom design for various machine configurations. Designed for safe and efficient storage and transportation. Allow the staff to work more efficiently by transporting more cylinders in one journey. Heavy duty rotating rubber wheels make it easy to maneuver, provide floor and cylinder protection and ensure safe movement.

- Safe movement of cylinders
- Easy access to the cylinders
- Easy identification of cylinders
- Can be set up for various sizes
- Safe movement of multiple cylinders - up to 4 sets of 10 cylinders with bearers
- Easy identification of various cylinder sizes
- Can be set up for various sizes
- Easy access to the cylinders



Stationary Cylinder Rack

Stationary storage racks are recommended where cylinders may be exposed to any possible damages caused by equipment collisions in a workplace.

This solution makes the cylinder racking easy and convenient. Wall mounted cylinder rack allows permanent designation of appropriate cylinder storage area. Modular construction enables simple and easy adjustment for various cylinder sizes depending on machine type.

- Two-level construction including mobile rack
- Safe movement of multiple heavy cylinders
- Can be set up for various sizes
- Easy access to the cylinders
- Safe storage of multiple cylinders for various machine types
- Can be set up for various sizes
- Easy identification of cylinders
- Easy access to the cylinders
- Modular construction
- Custom design



Composite Tooling

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

ROTOMETAL
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Did you know?

We are able to make modifications to the chemical composition of our resin, adapting it to the expectations and needs of our customers. These modifications are possible thanks to the knowledge and experience of our R&D team and modern technological facilities.

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 cm³/m² (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

DFTA

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Composite Tooling Comparison



	Aluminium Standard	Aluminium Antifriction	Hybrid	GlassFiber	ECO	Hydrophobic	Antistatic	ECO Antistatic	
Machine Type	Narrow Web Mid Web	Narrow Web Mid Web	Narrow Web Mid Web	Narrow Web Mid Web	Narrow Web Mid Web	Narrow Web Mid Web Wide Web	Wide Web	Wide Web	Machine Type
Ink type	UV EB Water - based	UV EB Water - based	UV EB Water - based	UV EB Water - based	UV EB Water - based	UV EB Water-based	Solvent - based	Solvent - based	Ink type
Base Layer Glass Fibre reinforced resin Styrene free	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✗	✓ ✗	Base Layer Glass Fibre reinforced resin Bisphenol F
Compensation layer Elastomeric material	✓	✓	✓	✓	✓	✓	✓	✓	Compensation layer Elastomeric material
Volume layer	n/a	n/a	n/a	PET Honeycomb PU	100% rPET Honeycomb ECO PU	PET Honeycomb PU	PET Honeycomb PU	100% rPET Honeycomb ECO PU	Volume layer
External layer Glass Fibre reinforced resin Aluminium	✗ ✓	✗ ✓	✗ ✓	✓ ✗	✓ ✗	✓ ✗	✓ ✗	✓ ✗	External layer Resin reinforced with Glass Fibre Aluminium
External layer special properties	n/a	Antifriction	n/a	n/a	n/a	Hydrophobic	Antistatic	Antistatic	External layer special properties
External layer hardness	90HB	400-450 HV	90HB	70 - 80 ShoreD	70 - 80 ShoreD	70 - 80 ShoreD	70 - 80 ShoreD	70 - 80 ShoreD	External layer hardness

rotoSLEEVE GlassFibre

rotoSLEEVE GlassFibre are ultra-light, composite Printing Cylinders.

Utilizing cutting-edge composite production methods, we craft our sleeves directly from the composite material. This innovative approach enables the incorporation of various materials including PET, Polyurethane, Polyester, or exceptionally resilient Epoxy resins.

The inks:

- UV (UV, LED, MultiCure) → Water- based
- EB

Technical details

Base layer

- Made of glass material and epoxy resin (customizable chemical composition)
- High thermal resistance
- High dimensional stability
- The possibility of placing additional information
- High core flexibility thanks to customisable chemical composition

Compensating layer

- Elastomer, extremely resistant and resilient
- Thermal resistance up to 110C
- 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

- Light 3D core material with honeycomb structure made out of PET or PU material. Material use dependent on the size of cylinder to gain the optimal weight
- **PET:** Closed volume; Less resin
- **PU:** Ultra light; Rigid foam

Improvement of product life

External layer

- Glass material saturated with colored resin
- High hardness 80-90ShD and dimensional stability
- High mechanical resistance

Special lock

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

Safety rubber

- Outer diameter perfectly matched
- High mechanical resistance

Upgrade to ECO.

p.44

- Light 3D core material with honeycomb structure made out of 100% recycled PET or ECO PU material made out of natural raw materials.
- Bio- based (28% of plant content) epoxy resin reinforced with Glass Fibre with 80-90 Shore D hardness



rotoSLEEVE Hybrid

Introducing rotoSLEEVE Hybrid, a groundbreaking innovation that combines the best of both worlds: the durability of aluminum and the lightweight properties of composite materials.

rotoSLEEVE Hybrid offers the perfect balance of strength, weight, and speed. By combining the best qualities of aluminum and composite materials, we have created a product that is both durable and easy to use. Whether you're looking to reduce downtime, improve efficiency, or simply enhance your overall printing process, rotoSLEEVE Hybrid is the ideal solution.

- **Durability:** Built to last
- **Lightweight:** Easy to handle
- **Speed:** Industry-leading lead times of 2 weeks

The inks:

- UV (UV, LED, MultiCure) → Water-based
- EB

Technical information

Maximum working width	800mm
Surface hardness	+/- 95HBW
Lead time	2 weeks



Did you know?

Our rotoSLEEVE Hybrid are a fantastic alternative to rotoSLEEVE Glass Fibre.

They offer the same performance but can be manufactured in just 10 working days.

Technical details

Inner layer

- **Material:** Standard Composite Rotometal Sleeve
- **Applications:** Used in rotoSLEEVE GlossFibre, rotoSLEEVE Aluminium, and rotoSLEEVE Antistatic providing a reliable and durable base for the outer layers.

External layer

- **Material:** Aluminium
- **Benefits:** Widely used in printing, ensuring durability and compatibility with various printing processes.

Special lock

- Steel
- Milled
- Fixed using screws
- Single lock included

rotoSLEEVE Hydrophobic

The outer layer of rotoSLEEVE Hydrophobic has a physical and chemical treatment that creates a hydrophobic barrier.

rotoSLEEVE Hydrophobic is dedicated to processes where the easy assembly and disassembly of double-sided foams are required. They are designed to help printing houses where the speed of changeover plays a significant role in the output of the manufacturing process.

The outer layer of the sleeve has a physical and chemical treatment that creates a hydrophobic barrier. The hydrophobic barrier is permanent over time, significantly reducing the problems caused by moisture. This means it retains its dimensional stability better than the market standard sleeves.

These sleeves are dedicated to water and UV inks. They also excel where high dimensional stability of the sleeve and high print quality is required.

The inks:

- UV (UV, LED, MultiCure)
- EB
- Water-based



Technical details

Base layer

- Glass fiber reinforced epoxy resin based on Bisphenol A with chemical composition

Compensation layer

- Elastomer, fast shape recovery rubber - thermal resistance up to 110C

Volume layer

- Light 3D core material with honeycomb structure made out of PET.
- Hydrophobic duroplast added to prevent humidity absorption

External layer

- Glass fiber reinforced polyester resin with UV and chemical treatment
- Specially activated surface prior to imparting hydrophobic properties
- Super hydrophobic properties

Special lock

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

Safety rubber

- Outer diameter perfectly matched
- High mechanical resistance

Improvement
of product life

rotoSLEEVE Antistatic

rotoSLEEVE Antistatic 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 credited by a laboratory. This combination means our rotoSLEEVE Antistatic are recommended and designed for solvent inks.

The inks:

- Solvent-based

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

Did you know?

Some competitors use a grounding method with three contact points to channel static electricity - this approach can be unreliable.

Rotometal's antistatic surface technology with a carbon coating ensures consistent conductivity across the entire sleeve surface, regardless of mandrel contact.



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 PU materials
- High thermal and chemical resistance
- Closed volume - less resin
- Reduction of weight

External 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

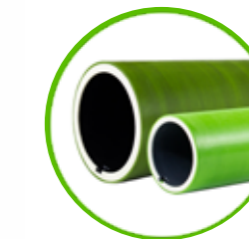
Improvement of product life:

Special lock

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

Safety rubber

- Outer diameter perfectly matched
- High mechanical resistance



Upgrade to ECO.

p.45

- Light 3D core material with honeycomb structure made out of 100% recycled PET or ECO PU material made out of natural raw materials.
- Bio-based (28% of plant content) epoxy resin reinforced with Glass Fibre with 80-90 Shore D hardness

rotoSLEEVE ECO Standard & Antistatic

rotoSLEEVES ECO Standard & Antistatic are the sustainable eco-friendly alternatives to the regular GlassFibre and Antistatic Sleeves.

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.

- ✓ **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."

The inks ECO

- UV (UV, LED, MultiCure) → Water- based
- EB

The inks ECO

- Solvent- based



Technical details

ECO features:

Base layer

- Bio- based (28% of plant content) epoxy resin reinforced with Glass Fibre

Volume layer

- Light 3D core material with honeycomb structure made out of 100% recycled PET or ECO PU material made out of natural raw materials.

External layer

- Bio- based (28% of plant content) epoxy resin reinforced with Glass Fibre with 80-90 Shore D hardness
- Glass fibre reinforced free of styrene polyester resin with 70-80 ShoreD hardness
- Custom Antistatic carbon coating (ECO Antistatic)
- Surface conductivity value $<10^5$ Ohm (ECO Antistatic)
- Value of cross conductivity $<10^6$ Ohm (ECO Antistatic)
- Safety certified by an independent accredited body (ECO Antistatic)
- Colour - Green

rotoSLEEVE Aluminium

Within our rotoSLEEVE product range, you'll discover rotoSLEEVE Aluminium. These cylinders are crafted with aluminum as the primary surface material, offering versatility in customization. They can be provided with either a standard finish, an anodized coating or our innovative ANTIFRICTION surface, exclusive to Rotometal.

Their assembly is much easier and faster making them a strong alternative to traditional Print Cylinders.

Technical details

- Easy and fast assembly on air mandrel thanks to high core flexibility thanks to customisable chemical composition
- High accuracy
- High durability inner core
- Scratch proof
- Light construction
- Horizontal and vertical guide lines for easy plate assembly
- ANTIFRICTION coating available
- Short manufacturing lead time

Upgrade to ANTIFRICTION

More information p. 16



Did you know?

Our base layer for anilox sleeve bases is now composite and cured using eco-friendly UV curing technology!



rotoSLEEVE Anilox Base

Maximum length - 1800 mm (71")
Diameter from 76 mm (3") to fi-200mm (8")
Lightweight construction
Easy assembly and disassembly
Working pressure 4,5-8 bar

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

Base layer

- Made of glass material and epoxy resin (customizable chemical composition)
- High thermal resistance
- High dimensional stability
- The possibility of placing additional information
- High core flexibility thanks to customisable chemical composition

External layer

- Aluminium - single alloy, not welded

rotoBRIDGE



rotoBRIDGE Elite

About

Rotometal introduces the new rotoBRIDGE Elite pneumatic CFK adapters, which belong to the high-end category.

By using the highest quality materials and a CFRP laminate, you can obtain high flexibility and steady printing processes. The Elite version stands out for its ability to reach the best print speed with minimal waste.

Assembly

Shafts
Pressure
Min. air volume

Dimensions: STORK

Length

Minimum
Maximum

Possible outer formats

Minimum outer (STORK)
Maximum outer (STORK)

Possible inner formats

Minimum inner (STORK)
Maximum inner (STORK)

Diameter tolerances

≤ Format 700 (Ø 216,567 mm)
>Format 700 (Ø 216,567 mm)

Coating

Electrically conductive
Wear resistant

Air Supply

Benefits

- Innovative design
- Bridge system – Minimized points of contact between adapter and air cylinder
- Integrated seal for user-friendly assembly– No escaping air between air cylinder and adapter
- Integrated damping system to reduce vibrations to a minimum
- Highest register accuracy
- Perfect register accuracy
- Registration optionally replaceable, replacement integrated
- Low weight for simple handling due to the use of lightweight materials

Pneumatic & Hybrid
Min. 6 bar / max. 10 bar
12 litres/ sec.

yes

650mm
1950mm

390 (Ø 117,891 mm)
1400 (Ø 439,134 mm)

290 (Ø 86,060 mm)
500 (Ø 152,905 mm)

+0,015 mm / +0,000
+0,018 mm / +0,000

yes
Hardness 90 Shore D

Drilling
Optional plastic inserts
Optional ball valves

rotoBRIDGE Premium

The rotoBRIDGE Premium pneumatic CFRP adapters offer a more cost effective option compared to our Elite adapters. By using the most lightweight materials, they cut down the weight considerably and allow you to set up much faster.

The rotoBRIDGE Premium delivers excellent print quality and suits well for agile work flows and quick print job transitions.

Pneumatic & Hybrid
Min. 6 bar / max. 10 bar
12 litres/ sec.

yes

650mm
1950mm

390 (Ø 117,891 mm)
1400 (Ø 439,134 mm)

290 (Ø 86,060 mm)
500 (Ø 152,905 mm)

+0,030 mm / +0,000
0,035 mm / +0,000

yes
Hardness 90 Shore D

Drilling

- Bridge system – Minimized points of contact between adapter and air cylinder
- Integrated seal for user-friendly assembly – No escaping air between air cylinder and adapter
- Integrated damping system to reduce vibrations to a minimum
- Perfect register accuracy

* maximum length depends on STORK

rotoBRIDGE Basic

Rotometal presents the rotoBRIDGE Basic, a reliable and budget-friendly option. Crafted from a base composite layer, this adapter features coating with antistatic characteristics.

Offering practicality and affordability, the rotoBRIDGE Basic ensures steady printing processes without compromising on quality.

Air Mandrel
Min. 6 bar / max. 10 bar
12 litres/ sec.

yes

300 mm
1600 mm*

260 (ø76,511)
960 (Ø 299,0774 mm)

210 (ø60,595)
-

+0,015 mm / +0,000
+0,018 mm / +0,000

yes
Hardness 80-90 Shore D

Drilling

- Several air supply alternatives available to meet press-specific requirements
- High thermal resistance
- High dimensional stability

rotoBRIDGE Basic Alu

Rotometal proudly presents the rotoBRIDGE Narrow Web, a purpose-built solution meticulously crafted for narrow web presses.

Designed to meet the unique demands of label and packaging printing, this adapter combines practicality, affordability, and performance.

Air Mandrel
Min. 6 bar / max. 10 bar
12 litres/ sec.

yes

300 mm
700 mm

ø95,609
960 (Ø 299,0774 mm)

210 (ø60,595)
-

+0,015 mm / +0,000
+0,018 mm / +0,000

yes
90 HB

Drilling
Optional ball valves

- Simple design for easy installation on the air mandrel
- Use of high-quality materials
- Durable inner core

rotoINK UV

rotoINK UV is a family of products known for their rapid curing through UV light exposure. They offer exceptional adhesion to various substrates, delivering vivid colors and sharp details.

Rotometal's rotoINK UV range is compatible with all current narrow web flexo presses. Available for standard and LED technology, as well as low-migration option.

Food Packaging

Benzophenone-free ink series designed for printing labels and non-food packaging

- rotoINK UV
- rotoINK LED
- rotoINK MultiCure

Non-Food Packaging

Low-migration and low-odour inks dedicated to food and pharmaceutical packaging printing

- rotoINK UV
- rotoINK LED
- rotoINK MultiCure

Available Colour Palletes

- CMYK
- PANTONE
- Metallic
- Pearl
- Fluorescence
- Security

Compatible with

- Cast coated papers
- Machine coated papers
- Uncoated paper
- Top Coated thermal paper
- Polyethylene (PE)
- Top Coated PE
- Polypropylene (PP)
- Top Coated PP
- Biaxially Oriented Polypropylene (BOPP)

Did you know?

Our rotoINK FOOD UV, rotoINK LED, and rotoINK MultiCure ranges are completely CMR-free, ensuring safety for food and non-food applications. We've also made significant progress in removing CMR from our other products.

Our goal is to make all our offerings completely clean and safe!



rotoVARNISH UV

Advantages

- Improved formula
- More slip
- Faster curing

Available Variants:

- Gloss Matt

Suitable for

- Anilox systems (roller coater, flexo letterpress and roll to roll offset machines)
- Sheet fed offset machines that are equipped with UV curing - Mercury or LED
- Food & non-food packaging

Characteristics

- Solvent free
- High reactivity
- Fast curing
- High gloss
- Low odour
- Low viscosity
- Suitable for applications that require bending or folding of the print

Compatible with:

- Papers
- Cards & cardboards
- Offset inks
- Packaging
- Roll to roll

ROTOMETAL

we are for print

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