

**www.typ-tgw.com**

TYP AG since 1947 · TGW GmbH since 1987

We have a total of three locations. In addition to headquarters and production in Bellach, another production facility is operated by the German subsidiary TGW GmbH.



#### TYP AG

Headquarters  
Gewerbestrasse 24  
4512 Bellach (Switzerland)  
Tel. +41 32 625 58 58  
Fax +41 32 622 72 40  
info@typ-tgw.com  
www.typ-tgw.com

#### TYP AG

Production  
Gewerbestrasse 28  
4512 Bellach (Switzerland)

#### TGW GmbH

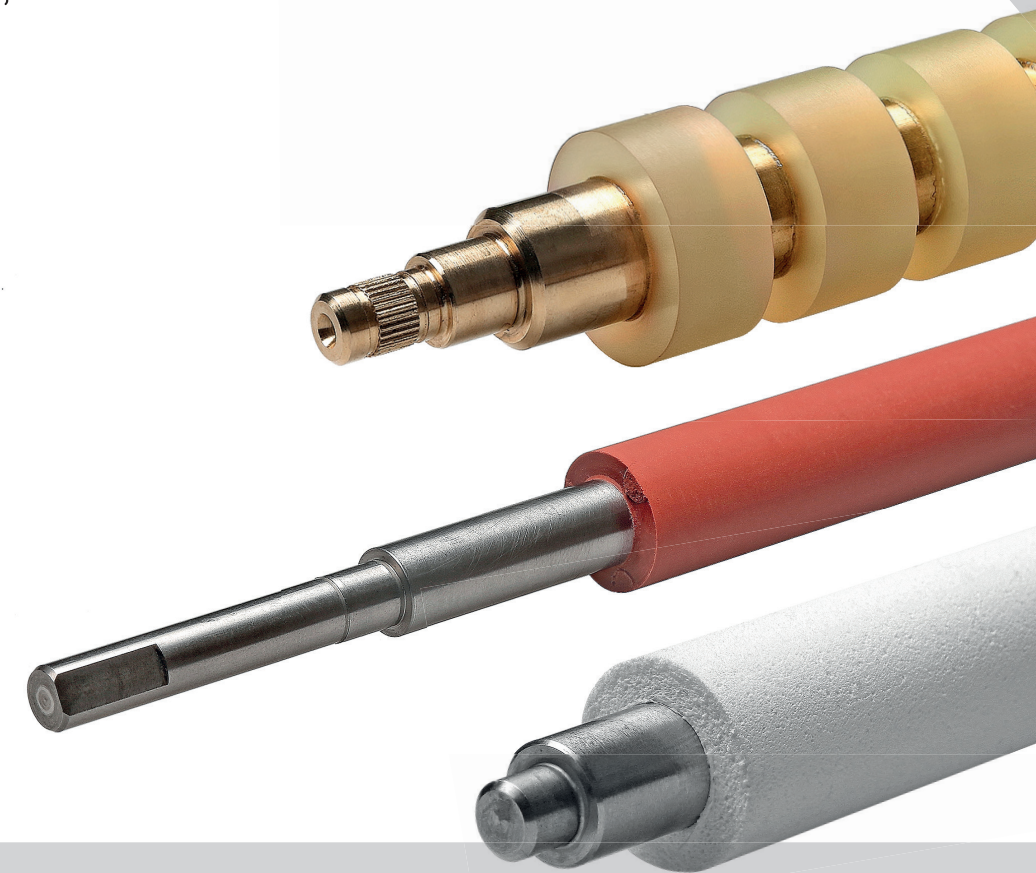
German subsidiary  
Am Elzdam 38  
79312 Emmendingen (Germany)  
Tel. +49 7641 91660  
Fax +49 7641 54478  
info@tgw-e.com  
www.typ-tgw.com



Copyright by TYP / TGW

## Technical rollers and cylinders

Quality · Tradition · Stability · Flexibility · Innovation · Positive and Dynamic Working Environment



We are a manufacturer and specialist of rubber, polyurethane, silicone, foam-rubber and CFRP cylinders, as well as special rollers of all types, produced on the basis of drawings and specifications.



**We keep things rolling**

Be it at the ATM, at the vegetable scales or in the car park: the bank notes, the price label or the parking card are issued by rollers. Our products are used in many other applications – around the world.

Prototype construction, pilot series, hybrid components, CNC grinding technology and recycling are among our complementing fields of competence.

Our company's strengths lie in its great flexibility, the possibility of framework contracts, just-in-time production, individual and serial production, customer support and a high quality standard.



#### Rubber-Elastomer Coatings

Today, ever-increasing demands are placed on rubber cylinders. They need to be resistant to, e.g., UV light, ozone, heat, solvents, acids, bases or other chemical substances. We will be happy to put our years of experience to work to assist you in making the right selection!

- NBR / EPDM / CR / SBR / NR / FKM (Viton) and special mixtures
- Options with FDA-approved components are also available



#### Foam Coatings

Foams are artificially produced materials with cellular structure and low density.

Foams are characterized by a very low density (weight per volume) and thermal conductivity with only low strength. Due to the interior structure, components made of foam are virtually free of residual stress.

- Closed-cell, open-cell or mixed-cell foams
- Integral foams



#### Non-Stick Coatings

Do you want to move an adhesive label cleanly and without problems? Then you need transport rollers with a special non-stick surface! The hot-melt adhesive should not adhere to this surface, thereby preventing undesired wrapping of the labels.

Want to keep dry or liquid toner from sticking to transfer rollers? A non-stick coating might be the solution here as well!

- RTV Silicone, Plasma, Nano...



#### Polyurethane Coatings (PUR)

Polyurethane elastomers are rubber-elastic chemical materials with exceptional physical and mechanical properties. Polyurethane has established itself as a versatile, technical construction material and, as a result, covers a very wide range of applications.

- Polyester-polyurethanes
- Polyether-polyurethanes
- Mixed systems
- Options with FDA-approved components are also available

Mixed systems have a property profile that lies between those of polyester systems and polyether systems.



#### Electrically Conductive Coatings

With the increasingly complex high-tech devices and the sometimes very sensitive sensor technology, the requirements in the area of coatings have increased as well. If, for example, electrical charges form at the wrong place, the consequences may be serious for the functioning of a device.

In the area near the electrostatic charging, a conductive coating (as an addition) can provide a remedy. By using special additives, it is possible to individually influence the surface and volume resistivity and discharge undesired charges via the coating of a cylinder.

- EPDM, polyurethane and polyurethane foam



#### Silicone Coatings

Silicone has very good high- and low-temperature behavior, good weather and chemical resistance and physiological properties. Its mechanical properties are, however, limited.

Silicone is suitable for use in a temperature range between -55°C and +210°C because its mechanical properties are nearly constant over the entire temperature range (special qualities up to +250°C as well as to -100°C).

- Cold cross-linked silicone rubber (RTV = room-temperature vulcanization)
- Hot cross-linked silicone rubber (HTV = high-temperature vulcanization)
- Options with FDA-approved components are also available



#### CFRP Cylinders

Carbon fiber reinforced plastic (CFRP) is a composite material in which carbon fibers are embedded in a plastic matrix, usually epoxy resin. The matrix material serves to join the fibers as well as to fill the spaces. The mechanical properties of the cured compound benefit above all from the tensile strength and the stiffness of the carbon fibers. The matrix prevents the fibers from pushing against one another under load.

CFRP is used, in particular, in applications where the increased costs are deemed acceptable in exchange for a low mass and, at the same time, high stiffness.

