

EACH ROLL A SYSTEM.

ROLL

SYSTEMS

www.walzensysteme.com

SchäferRolls /
MWN / :CCOR

ROLL
SYSTEMS

ONE ROLL. ONE SYSTEM. ONE SOLUTION.

THE WHOLE

Roll systems are a crucial component – pivotal even – in the smooth production, processing and finishing of web-formed materials such as paper, films and foils, metals, textiles and non-woven fabrics. The function and performance of a roll dictates the quality of the end product and the reliability of the entire production process.

Carriage, web-guidance, media application and transfer, surface treatment, dewatering, embossing, calendering – the sheer variety of functions a roll has to fulfil can be as individual and unique as the demands for the technological matching of material, design and surface properties of the entire roll system.

Developing and producing a top-of-the-range, high-tech roll, requires an intimate understanding of the role of the roll within the overall system. Different operating speeds and varying manufacturing setups mean that every roll body, every load transfer concept and every journal and head design has to be geared precisely to the specific application environment. Tailoring the roll cover material to the requirements of each application with ideal bonding to the roll core and optimal surface design ensures that the entire roll system fulfils its function as expected.

IS MORE

As of provider of end-to-end, best-in-class roll systems – for use in all areas of manufacturing – we deliver that decisive edge. All of the business partners involved in the design and construction of our roll systems are leading international providers in their specialist field, with products and services that bear every hallmark of technological superiority.

Of course when it comes to developing new, enhanced and innovative roll systems, you have to speak the same technological language – which we do. So everything is thought through together, with all eyes on the same aim: the best possible outcome.

Working in a variety of interdisciplinary teams, we sit around the same table, bringing together a broad range of engineering know-how and detailed application experience. And the goal of our teams is always to work as a partner of equals, shoulder to shoulder with your machine operators and plant engineers. In our role as a development and engineering partner, we ensure that every single component functions efficiently, working in harmony with the system – which also works better as a whole.

THAN THE SUM OF ALL PARTS

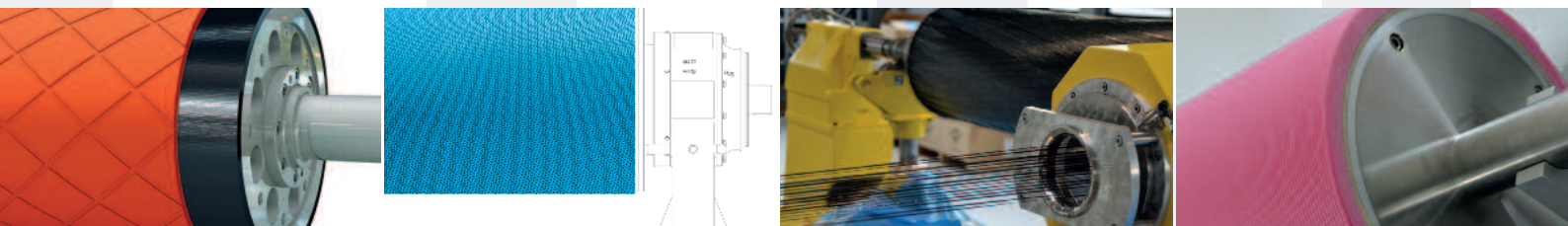
Every roll we develop and produce is a direct reflection of the wealth of our know-how. This is derived not only from an in-depth understanding of technology and materials, but also from our comprehensive track record and detailed knowledge of mechanical engineering, technology design, applications and functional surfaces – pooled together to deliver end-to-end solutions that, in turn, deliver exceptional runnability.

You also benefit from the advantages of our powerful and professional network.

OUR STRENGTH – YOUR BENEFIT:

1. Extensive blend of specialist know-how and technical options
2. One single point of contact for all-round services, thus fewer interfaces
3. Short decision-making processes, a strong focus on efficient procedures and nearby support in order to guarantee rapid response
4. Successful, partnership-based collaboration that lasts for years
5. Continual sharing of know-how
6. Comprehensive approach to your key priorities from a variety of angles

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EXPERIENCE THAT CREATES CONNECTIONS. KNOW-HOW THAT CREATES STRENGTH. IT'S ALL DOWN TO THE SUCCESSFUL SYSTEM.

Three companies – one system.

SchäferRolls Development know-how for functional surfaces
MWN Design, component engineering, plant optimisation
:CCOR CFRP roll systems

SCHÄFERROLLS

- Specialist in rubber, polyurethane and composite roll covers
- Roll covers for all kinds of functional and guide rolls
- Over 60 years' experience in elastomers
- Centralised materials development and integrated compounding process for roll covers specially adapted to each application
- Rapid service through high production capacity
- World's biggest production facilities for elastic roll covers
- Handling and manufacturing of rolls with overall length of up to 15,000 mm, diameters of 2,000 mm and a weight of 100 tons
- Independent application and engineering consulting
- Start-up support, planning of machine and product-related roll and surface designs, thermographic analysis and electronic nip measurement
- Development partner for application-specific solutions for all sectors of industry with a focus on the paper, film, foil, printing, textiles, furniture, packaging and metal industry, as well as mechanical engineering and machine construction
- Global sales and customer network

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MWN

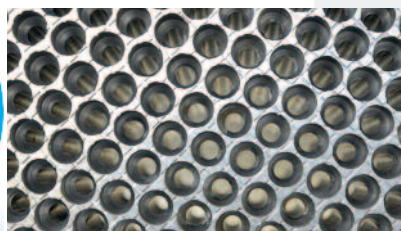
- Specialist in metal-based functional and guide rolls
- Tailor-made development, design and manufacturing of suction, spreader, heating, cooling and other functional rolls
- Over 100 years of know-how in design and mechanical engineering
- Ultra-modern machine tool range with CNC gun drilling centre and roll testing facility
- Handling and production of rolls with overall length of up to 12,000 mm, diameters of 2,000 mm and a weight of 80 tons
- full scope of roll services for quick and professional maintenance of roll systems
- Suction roll and spreader roll service
- Professional partner for planning of new projects, refits and modernisation of roll systems and machine peripherals
- Global sales and customer network

www.mwn-niefern.de

:CCOR

- Specialist in lightweight components made from fibre-reinforced plastics and metal/plastic hybrid materials
- End-to-end solutions for lightweight roll systems based on advanced composite technology
- Winner of awards for innovative lightweight construction
- Efficient manufacturing facilities for the production of lightweight rolls using filament winding processes
- Handling and manufacturing of rolls with overall length of up to 13,000 mm, diameters of 1,500 mm and a weight of 20 tons
- Network of experts specialised in design, calculation, materials engineering and application technology
- Development partner for innovative solutions and special applications
- Global sales and customer network

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ROLL SYSTEMS FOR ALL KINDS OF INDUSTRIAL APPLICATIONS

ROLL SYSTEMS APPLICATIONS

Printing Industry

- Media application and transfer** Inking rollers, dampening rollers, ink transfer rollers, rider rollers
- Roll change** Paster rolls
- Web guide and carrying** Guide rolls
- Printing plate manufacture** CTP platesetter rolls

Film and Foil Industry

- Film stretching** Nip rolls (MDO), tempered rolls
- Film treatment** Treatment rolls (corona treatment), pressure rolls (corona and flame treatment)
- Film slitting** Grooved rolls
- Film winding** Contact rolls
- Web guide and carrying** Suction rolls/vacuum rolls, spreader rolls
- Embossing** Embossing back-up rolls

Wood and Furniture Industry

- Media application and transfer** Size applicator rolls, size metering rolls, lacquering rolls, rider rolls, stain applicator rolls
- Lamination** Laminator rolls
- Web guide and carrying** Path rolls, deviating rolls, backing rolls

Metal Industry

- Metal pre-treatment** Pickling rolls, immersion rolls, squeeze rolls, pressure rolls, wet stage rolls, carrying rolls, guide rolls
- Metal forming** Wet stage rolls, stretching rolls, smoothing rolls, squeezing rolls, measure rolls, carrying rolls, guide rolls
- Metal finishing** Varnishing rolls, paint applicator rolls

Paper and Tissue Manufacturing

- Sheet formation** Forming rolls, wire suction rolls, wire drive rolls, lumpbreakers, breast rolls, table rollers
- Dewatering** Pick-up suction press rolls, hard and soft press rolls, suction press rolls, pressure rolls, suction pressure rolls
- Drying** Dryer wire guide rolls, dryer cylinders
- Coating & Sizing** Hard and soft size press rolls, film press applicator rolls, coater backing rolls, coater applicator rolls
- Calendering** Soft calender rolls, super calender rolls, multi-nip calender rolls, embossing calender rolls
- Winding** Reel spools, reel drums, rider rolls, winder drums
- Web Guide and Carrying** Paper guide rolls, wire guide rolls, felt guide rolls, calender guide rolls, splicing rolls, measuring rolls, tensioning rolls, regulating rolls, spreader rolls

Paper and Tissue Converting

- Media application and transfer** Adhesive applicator rolls, silicone applicator rolls
- Embossing** Embossing back-up rolls
- Ply lamination** Marrying rolls, pressure rolls
- Lamination** Laminator rolls
- Roll change** Splicer rolls
- Web guide and carrying** Run out rolls, feed rolls, path rolls, transfer rolls

Textile and Non-Woven Industry

- Pre-treatment; bleaching, washing, mercerising** Final squeeze rolls, intermediate squeeze rolls, lay-on rolls, mercerising rolls
- Dyeing, finishing, impregnation** Dyeing foulards, finishing foulards, impregnation rolls, nip feed rolls
- Sizing process** Immersion rolls, top rolls, bottom rolls, squeezing rolls
- Weaving** Squeezing rolls
- Web guide and carrying** Cloth draw rolls, plaiter rolls, nip feed rolls, carrier rolls

Getting in touch

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