THE ANILOX EXPERTS

Innovative Anilox Roller Technology







OUR COMPANY

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INDUSTRY SOLUTIONS

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Ceramic anilox rollers
Chrome anilox rollers
Anilox roller sleeves
CFRP anilox rollers
Surface finishing
Cleaning services
Printing technology
Roller inspection with AniloxStrips
Hard chrome plating

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ZECHER IN FIGURES

- More than 165 employees
- Over 65 years' experience in the anilox roller sector
- 4 production plants
- 17 laser engraving units, 10 mechanical engraving units and 4 coating machines
- Production of approximately 12,000 anilox rollers annually
- Annual turnover in excess of €22 million



OUR QUALITY PRINCIPLES

The teams in the four production plants at our main site in Paderborn manufacture anilox rollers and sleeves for your print applications. All production takes place in Germany as part of our efforts to ensure the continuous application of our own quality standards. This allows us to reproduce your rollers in a reliable manner.







¹⁹⁴⁸ The company was founded by Kurt Zecher.

> 1950 Production of the world's first anilox roller for routine engraving.

1951 Production of an anilox roller engraved at an angle of 45° for use in flexo printing.

> ¹⁹⁸¹ Presentation of the revolutionary 140L/cm F18.3 at the Drupa trade fair.

1998 Celebration of the company's first 50 years and installation of a state-of-the-art coating system.

1989 Debut of the laser-

engraved ceramic roller.

Our newly developed AniloxStrips allow you to determine the state of used rollers.

²⁰¹² Presentation of the specification pyramid at the Drupa trade fair.



Laser-engraving system for ceramic anilox rollers and ceramic sleeves



²⁰¹⁶ Presentation of our innovative SteppedHex engraving at the Drupa trade fair.

Our expanded sales and distribution network extends to more than 60 companies worldwide.





THE ANILOX ROLLER PIONEERS

Zecher's activities have always revolved around anilox rollers. After starting out with production of the world's first routinely engraved anilox roller, we have turned into a top-quality international supplier of innovative anilox roller solutions. Ever since the company was founded by Kurt Zecher in 1948, we have been continuously dedicated to improving the performance of the print roller, as evidenced by our more than 65 years' experience in the production of engraved anilox rollers.

FROM PADERBORN TO THE WHOLE WORLD

After small beginnings involving exports to Austria and Switzerland, we now have an extensive network of sales partners that continues to grow, with exports accounting for more than 50% of production. Zecher anilox rollers are currently in use in printing machines throughout the world. With sales partners in some 60 countries, we ensure that you are never far from a local point contact person who can advise you and offer support regarding your acquisition of anilox rollers.









Packaging increasingly needs to be more sophisticated, lighter in weight and less expensive. The trade-offs between economic viability, environmental sustainability and the never-ending stream of new and creative ideas suppose a major challenge for our sector. The outstanding drainage performance of our anilox rollers allows you to fine-tune perfectly the transfer of the printing ink, thereby ensuring consistency for both new and repeat printing jobs. This lets you concentrate on your main day-to-day task: printing!



LABEL PRINTING



Regardless of whether your operation involves bottle labels, barcodes or type- and serial-number plates, as a manufacturer of anilox rollers we can supply an optimum solution for every requirement which covers the entire spectrum of printing and finishing options.

There is no need for compromises when you deal with us, as homogenous spot colours and consistent application of ink are all part of the smooth process. Our anilox rollers also open up new horizons for you in the field of HD flexo printing with all inking systems, with particular reference to UV inks.







CORRUGATED CARDBOARD



The printing of corrugated cardboard has continued to develop considerably in recent years, in terms of both pre- and post-printing. In addition to traditional print jobs, those involving fine line definitions and increasing quality demands are now the order of the day. Our widely renowned, top-quality anilox roller gravure can then be used on your behalf for anything from steel cylinders to CFRP sleeves.

So let us convince you of the brilliant results and long service life on offer!

OFFSET



Whether you need packaging materials, brochures, catalogues or large-format offset prints - our anilox roller solutions deliver a high-quality standard of finish that lets you stand out from the crowd. Our ceramic anilox rollers will convince you, with a massive range of applications that runs from homogeneous surfaces up to those that involve multiple coatings. You can also use our rollers with any coating system, all with the permanent benefits of stable adhesion behaviour and high operating performance.







COATING



Our anilox rollers are also suitable for use, in addition to their flexo printing applications, in different coating machines. Whether this involves varnishing, siliconising, adhesives or hot-melt – the possibilities and needs of the coating sector are both diverse and demanding. Our long experience in these fields means that we can offer you a high level of processing reliability with excellent results to match.

CUSTOMISED SOLUTIONS



The challenges facing today's printing industry can be many and varied. As a roller manufacturer, we supply individual services that go beyond what is offered as standard, in an effort to match our endeavours to your needs and area of application. Our anilox rollers customised to meet your needs allow us to provide the best possible support for your printing results and processing performance. We are ready to explore new ways of meeting your printing technology-related challenges.







CERAMIC ANILOX ROLLERS

Anyone can do "standard". We go a step further by providing a corrosion-prevention coating that is also an intermediate substrate between the base material of the roller and its functional surface. Each anilox roller is subjected to superfine polishing, both before and after laser engraving, using a diamond-coated abrasive strip. This combination of pre- and post-polishing, in conjunction with high-quality laser engraving, ensures that your ceramic roller will have a long and reliable useful life as it delivers outstanding print results.

CHROME ANILOX ROLLERS

The engraving of chrome rollers is carried out on a special copper-coated surface. In this process, each cell is individually cut by a diamond-tipped tool. Electronic engraving provides you, in comparison to other procedures, with absolute uniformity in terms of cell geometry and optimum pickup volume. With this technology, we can also manufacture coarse engravings with high ink transfer volumes for you without any problem.

We are further enhancing our chrome-roller range with the renowned NSC coating process.

The outstanding drainage performance of our chrome rollers makes them a vital part of such specific processes as coating and adhesive application, along with a large number of other areas.



ANILOX ROLLER SLEEVES

Our anilox sleeves can visibly improve your processes, especially those that involve shorter print jobs.

- Improved corrosion protection
- High repeatability (TIR)
- Fast, trouble-free changeovers
- Fast reaction to changing ink requirements
- Lightweight design for ease of handling
- Shorter setup times

Long service life

• EasyMount accessories make the system easier to set up





CFRP ANILOX ROLLERS

As lightweight members of the anilox roller family, Zecher's CFRP rollers are made using a unique combination of horizontally and diagonally laid carbon-fibre structures. This special type of roller offers decisive practical advantages for your printing operation, as it is very light, highly rigid and extremely resistant to vibration. These characteristics of CFRP rollers make them ideal for use in applications that involve high speeds and demanding image specifications. We can manufacture this type of roller for you in many common operating widths.



SURFACE FINISHING

Your anilox rollers need to withstand various external factors in the course of the printing process. We supply various surface finishes designed to ensure that you will be able to benefit from the high quality of our anilox rollers for a long time to come.

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Our I.T.S.[®] (Invisible Treatment System) finishing also provides an optimised emptying procedure that lets you considerably improve the performance of your print rollers.

RANGE OF SERVICES

CLEANING SERVICES



OUTSTANDING PRINT RESULTS IN THE LONG TERM

Are you noticing a gradual decrease in the volume of your anilox rollers? Your rollers regularly come into contact with inks, varnishes, cleaning agents, water and all manner of chemical substances. The diversity of the chemical processes involved is immense. Our cleaning services combat this diminishing performance, thereby helping you to maintain outstanding print results in the long term.



INNOVATIVE LASER CLEANING

The regular deep cleaning of your rollers is of crucial importance when it comes to high-quality print results. We now also offer laser cleaning to complement our existing ultrasonic cleaning service. This innovative cleaning method removes all traces of ink and varnish, without damaging the micro-structured surface. This allows you to take full advantage of the pick-up volume of your anilox rollers once more, and thus reap the same benefits as you did at the beginning of uniform colouring in the printing process. Let us convince you of the outstanding results of such cleaning!



SUPPORT FOR YOUR PRINT TECHNOLOGY-RELATED CHALLENGES

Our application technology and R&D are focused on printing and our wide range of past experience, but also involve the ultra-modern measuring equipment of our own in-house laboratory. In order to give you an overview of what we do, here is a selection of some of our printing technologyrelated services:



- Matching of ink transfer and reproduction requirements
- Press proofs to determine the exact weight transfer
- Analysis for the purpose of reducing ink consumption

SteppedHex specification pyramid

• Evaluation of your existing rollers



Hexa specification pyramid





ROLLER INSPECTION WITH ANILOXSTRIPS

Our roller-analysis services give you the insight you need in order to know exactly what your printing rollers are currently capable of. Our AniloxStrips method lets you analyse the state of your anilox rollers without having to dismantle them or send them to us. This absence of any need to submit the rollers saves you both time and costs. Despite the simplicity of the procedure, you receive a comprehensive and precise evaluation. We use the powerful microscopes in our modern laboratory to deliver precise measurement readings.



HARD CHROME PLATING CARRIED OUT IN-HOUSE

Hard chrome plating lets you combine various mechanical and technical features into a single coating process. The extreme hardness and high resistance to wear and corrosion of this type of chrome plated surface allows it to be used on components involved in several applications. These advantages can apply to anything from the engraved rollers used in the plastics industry to the cooling cylinders employed in the food sector.





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