

ANILOX ROLLERS

INSTRUCTIONS FOR CLEANING AND CARE





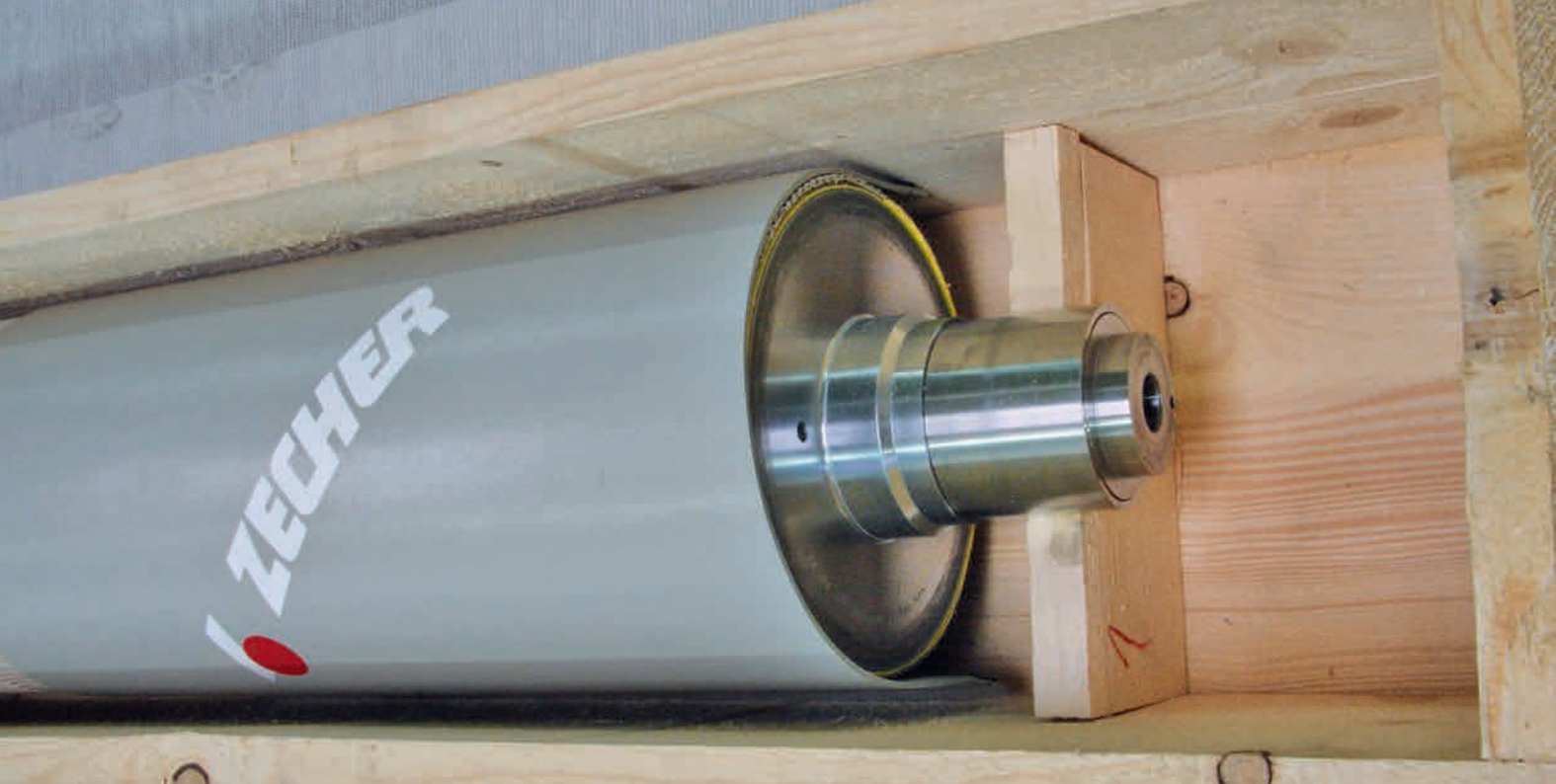
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General wear-prevention instructions

- The anilox roller is designed to be used for the defined transfer of liquid media in a printing or coating machine. The product is not intended for any other purpose.
- Please check in advance (by contacting the manufacturer if necessary) for compatibility with acid or alkaline printing and coating media.
- The anilox roller must be securely placed in a robust wooden crate for transport in order to prevent physical damage.
- The surface of the anilox roller should be protected using special sleeves and/or mats supplied by ZECHER.
- Special care should be taken with the in-house transport of unpacked anilox rollers on their journeys between the storage area and the printing machine.
- Bearings must only be fitted and removed by suitably trained personnel.
- The surface of the roller must be kept free of oil and grease whenever work is taking place. Wear clean gloves and check the packing materials for cleanliness.



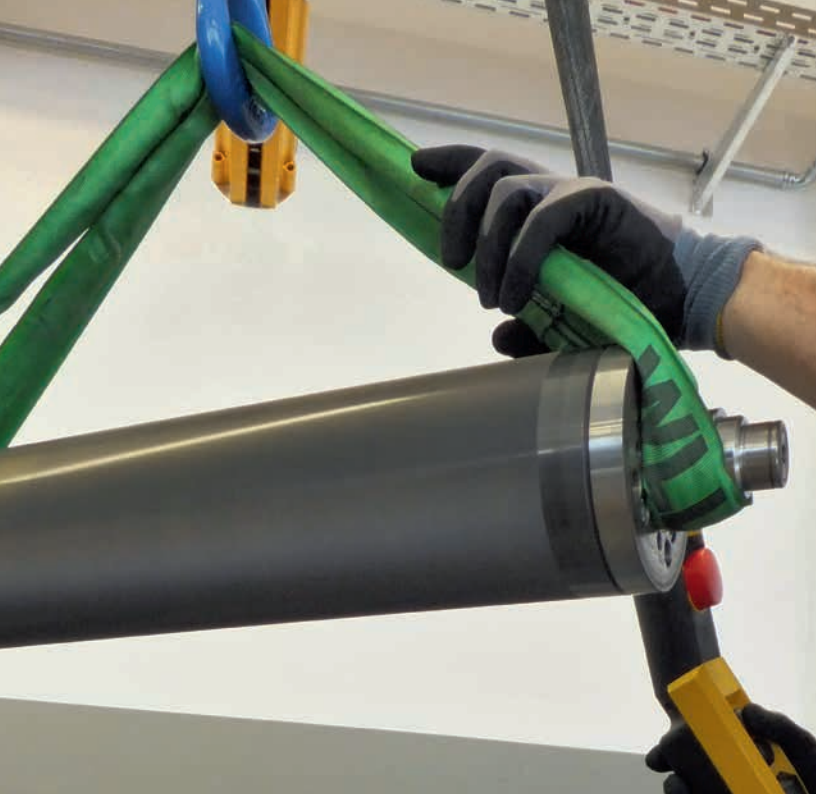


Storage instructions

- The anilox roller must be kept in a dry, dust-protected place when not in use.
- Avoid wide fluctuations of temperature (+/- 15°C /60°F).
- If the anilox roller is stored horizontally, its surface must be protected using special sleeves and/or mats supplied by ZECHER.

- If it is stored in a vertical position, we recommend adding a support to prevent it from tipping over.
- You should preferably use special ZECHER sleeves and protective mats, and a wooden crate with movement prevention, to avoid physical damage to the surface of the anilox roller.





Handling

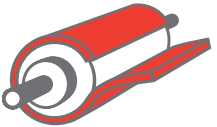
Onsite transport

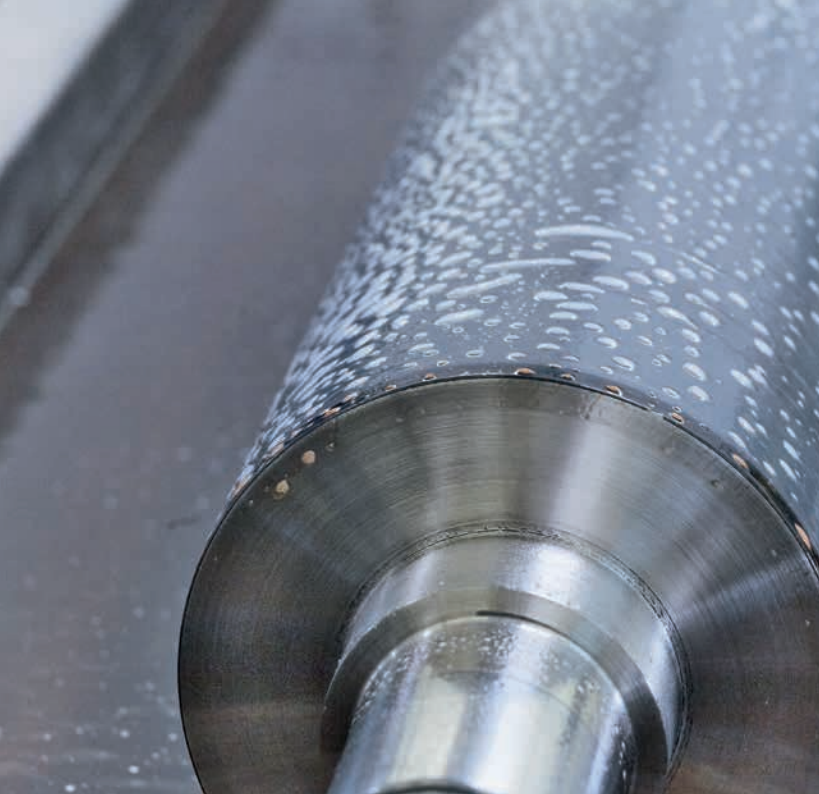
- Before raising the roller, ensure that the lifting gear is of sufficient load-bearing capacity. The health-and-safety aspects of load-lifting and transport should also be taken into account.
- When transporting the roller, keep it as horizontally levelled as possible to prevent it from slipping out of its lifting slings.
- We recommend the use of anilox roller protection mats or sleeves. Take steps to prevent the roller from slipping out of the sleeve/mat.

Installation and removal of the roller

- Installation and removal must only be carried out by suitably trained specialists. Please be sure to follow the operating instructions (including the safety information) when doing so.
- We can accept no liability for defective installation/removal of the anilox roller, or for incorrect assembly/dismantling.

- The surface of the anilox roller is absolutely vital to the printing/coating process, so it must not be damaged during installation or removal.
- Please note that certain processes may leave residues (liquids, etc.) on the roller. Take careful note of the safety data sheets and hazardous-substance instructions supplied with your operating materials.





Cleaning and care

- Rollers must be cleaned immediately whenever a production run is interrupted, and at the end of each print job.
- Dried-on flexographic inks can only be removed with intensive deep-action (and normally corrosive) chemicals.
- Avoid all mechanical cleaning methods (such as particle blasting and brushing) wherever possible, so as not to damage the delicate micro-structure of the anilox roller's surface.

- Cleaning products must be matched to the inking system used.

Follow these basic guidelines:

- Do not use strong, acid-based (<pH 5) cleaning products on steel rollers.
- Do not use strong, alkaline-based (>pH 11) cleaning products on aluminum rollers, as they are likely to cause corrosion damage to the underlying structure.
- Always be sure to follow the recommendations of the manufacturer/ supplier (see data sheet).

- Use cleaning sponges supplied by ZECHER, which are specifically designed for routine day-to-day cleaning with lineatures of > 280 l/cm.
- After each cleaning operation, rinse the surface thoroughly with fresh water free of detergent residues.
- In order to prevent dripping water interfering with the following process, dry the roller with a soft, clean, absorbent cloth.





Interim cleaning with a sponge

- Use a ZECHER micro-pore sponge for fast and efficient interim cleaning between print jobs.
- Note that wiping down with a sponge does not replace automatic machine cleaning or the use of a suitable external cleaning device.

Daily cleaning in the printing machine

- A dry run with the use of a blade chamber can lead to scoring and other mechanical damage.

Intensive cleaning outside the machine

- If wiping with a sponge or routine cleaning

inside the printing machine proves insufficient, the following cleaning procedures should be applied: Ultrasonic (observe and adhere to suitable ultrasonic frequency), washing with liquid detergents and laser cleaning. You can find detailed information on cleaning agents and laser cleaning on our website:
www.zecher.com/anilox-rollers/roller-cleaner/

- Please note the manufacturer's instructions, which should be considered.
- Use only recommended cleaning products. (Follow the manufacturer's recommendations.)

- Remove add-on components/bearings before cleaning.
- When cleaning in a mechanical washer, position the roller in the cleaning machine so that its pivots rest on the machine's conveyor rollers.
- Carefully follow the instructions contained in this manual when subsequently transporting the roller in-house.

Did you know that ZECHER offers its customers a professional deep-cleaning service that includes an appraisal of the roller's current condition? For further information, please contact our sales team!





Transport

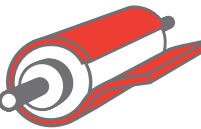
Receipt of shipments from ZECHER

- ZECHER anilox rollers and accessories are carefully inspected to ensure that they are free of damage before being handed over to the carrier for onward transport.
- Check the shipment immediately after delivery for signs of damage in transit.
- If you do detect any damage, record the details in the delivery note.

- The defective item must be left in its packing material, exactly as it was delivered by the carrier, until it can be inspected.
- Concealed damage must be reported to the carrier within ten days of delivery.
- Copies of all accompanying documents (packing slips, transport documents/waybills (CMR), invoices, explanatory photos, etc.) must be sent in along with the damage report.
- Packaging must be protected from moisture during transport.

Dispatch to ZECHER

- The anilox roller must not slide around during transport. It must be securely packed in a suitable container or wooden crate.
- Ensure that its surfaces are covered with special protective sleeves and/or mats supplied by ZECHER.
- Select screws and/or nails of a length not likely to penetrate the interior of the crate.



Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.[illegible]



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