



INNOVATIVE ROLLER TECHNOLOGY



Leading Through Innovation

INSTALLATION ADVICE AND SYSTEM RECOMMENDATION

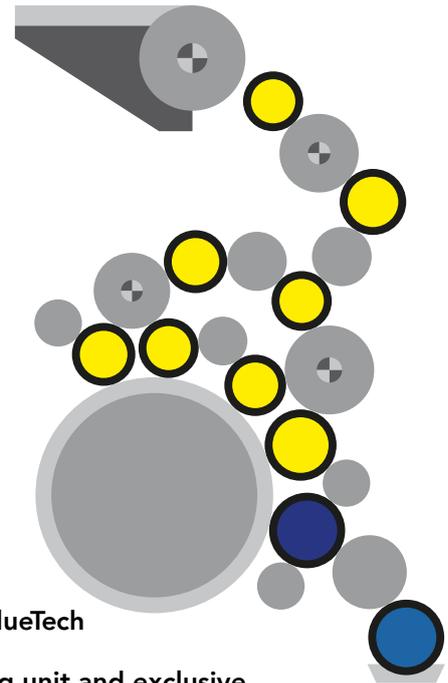
Procedure for installing and optimally maintaining
the DURAPRINT ink rollers



1. Setting/Adjustment of the rollers and boundary parameters

The DURAPRINT ink rollers are adjusted as precisely as possible according to the specifications of the machine manufacturer. The stripe widths are to be set approx. 1mm less than with conventional rubber rollers. For instance, when the recommendation for rubber rollers is a 5mm stripe width, make sure to adjust the DURAPRINT ink rollers with a 4mm stripe width. In contrast to rubber rollers, DURAPRINT rollers do not “settle” after a certain period of use.

However, the DURAPRINT – vibrating ink roller is exactly adjusted according the advice given by the machine manufacturer, but not more sharply.



- DURAPRINT
- DURADAMP
- DURADAMP BlueTech

Premium inking unit and exclusive dampening unit of Sauer



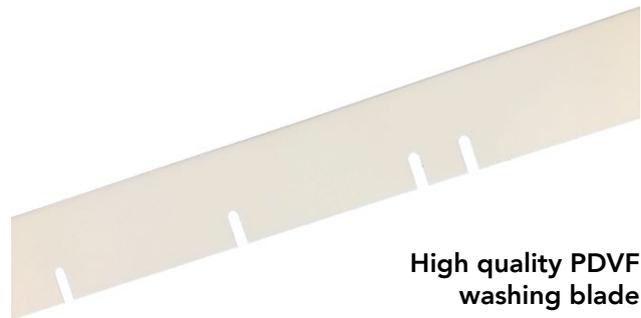
Adjustment of the DURAPRINT rollers with the NIP CON roller strip measuring device



2. Replace washing blade

The washing blade is an important tool for the quick and thorough cleaning of ink rollers. It ensures that ink residues and detergents that run through the roller system are scraped off properly. Depending on the machine configuration and installation situation, these washing blades look different.

We strongly recommend replacing the washing blade as soon as installing a DURAPRINT inking unit. This ensures that optimal cleaning of the rollers is achieved using a combination of the recommended detergent and water.



We are able to provide our customers some washing blades for the following printing machines:

Koenig & Bauer AG: Rapida 105 /

Rapida 106 / Rapida 142 / Rapida 145 /

Rapida 162 / Rapida 164

Heidelberg: Speedmaster SM/CD/CX 102

Manroland: Roland 700

3. Detergent and program adjustment

All detergents approved by Sauer can be used for automatic and manual washing of the DURAPRINT ink rollers.

In any case, it is not advisable to use cleaners that are common in the household, in work-

shops and for cleaning anilox rollers.

During commissioning, the washing program should be aligned with the DURAPRINT ink rollers and the respective detergent. It is recommended to use the product DURAWASH



for this, as this is designed for cleaning the DURAPRINT rollers.

Depending on the use of color in the printing process our customers can purchase one of the following products directly from our partner, DC Druckchemie GmbH:

- Whenever using conventional inks:
DURAWASH 1.0 (for brush cleaning)
DURAWASH 1.1 (for blanket cleaning)
- Whenever using UV inks:
DURAWASH UV 2.0



Product line
DURAWASH

Programm	1	2	3	4	5	6
	--	--	--	UV	UV	UV
	3	4	6	5	6	8
	3	4	6	5	6	8
	9	12	14	10	13	16
	4	7	9	4	7	10

DURAPRINT Washing programs
(conv. prg. no. 1-3 / UV prg. no. 4-6)

- For all hybrid operations (UV + conv.)
with only one detergent tank:
DURAWASH Mix 3.0

Due to the smooth surface structure, an optimal cleaning result can be achieved with little detergent and reduced washing time. This enables fast and contamination-free color changes – also from dark to light.

4. Fountain solution additive

In order to ensure the optimum ink-water balance in the offset printing process, we recommend using the fountain solution additive EUROFOUNT-ZERO-SF (dosage 4-6%) with a maximum of 6% IPA. Our customers can obtain this additive directly from our partner DC Druckchemie GmbH. The use of unsuitable fountain solution additives can lead to a disturbed emulsion and thus to an unstable printing process. Moreover it is advisable to ensure a consistent water quality (8-12 ° dH) through water treatment.



EUROFOUNT-ZERO-SF



5. Deep cleaning and care

The DURAPRINT ink rollers are characterized by the fact that they are coated with a special elastomer instead of a rubber compound. One of the advantages is the low tendency to swell and shrink when using different ink systems. Since this material has hardly any pores, ink residues can be washed off more easily.

As with standard rubber rollers, regular cleaning and care of the DURAPRINT ink rollers is mandatory.

While you can recognize the the chalk components on a black rubbers easily, it is challenging to identify them on the yellow DURAPRINT ink rollers. However, they are responsible for the fact that the transfer of the ink-water emulsion can be disturbed. This is called the „running blank“.

The care products from Sauer EUROSOL roller shampoo and EUROCLEAN-RP roller paste, which should be used once a week, will help you tremendously. EUROCLEAN-RP roller paste cleans the roller surface of ink residues, while EUROSOL roller shampoo gently removes layers.

The following procedure has proven itself:

- Clean the ink rollers
- Spread EUROCLEAN-RP roller paste and let it run at 5.000 sheets/h for 3 minutes
- In addition, apply EUROSOL roller shampoo and let it take effect for another 5 minutes at 5.000 sheets/h
- Then wash off with detergent and water and neutralize it



CUSTOMER-ORIENTED READY-TO-WORK SOLUTIONS

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