

Precision in finishing. Saphira PLP Anilox Roller.

The anilox roller – the heart of the coating process

Finishing printed products with coating is an effective way of making quality visible. The coating is usually applied via the coating units. The anilox roller plays a central role here: it precisely defines the amount of coating applied and has a significant influence on the appearance of the final product.

As a system provider, HEIDELBERG® offers you a comprehensive portfolio of Saphira® PLP Anilox Rollers manufactured in-house, ideal for commercial, packaging, or label printing – tailored to almost any application with waterbased and UV coatings. This gives you a solution that meets your printing process requirements.

Pulsed Laser Process (PLP) for maximum process reliability

HEIDELBERG manufactures anilox rollers for coating units, ink ductors, and Anicolor® inking units on its own state-of-the-art equipment. The automated manufacturing process is based on the patented Pulsed Laser Process engraving method – an innovative technology that ensures maximum dimensional accuracy and consistent quality. Combined with optimized quality testing, this results in anilox rollers that impress with their precise structure and high process reliability – for durability and reliable results in daily use.



Your advantages at a glance

Highest precision: minimal tolerances, especially in the transfer volume, for reproducible coating results

Efficiency: homogeneous coating application thanks to precise manufacturing – for less waste, consistently high gloss results, and stable processes

Versatile application: suitable engraving structure and optimum transfer volume for almost any coating application

High quality and performance: tailored solutions for your finishing processes thanks to the optimal combination with Saphira coatings, coating plates, and blankets

Durability: minimal cell wall fracturing due to the unique engraving technique and reduced coating misting and drop formation



Saphira PLP Anilox Rollers at a glance

HEIDELBERG offers a selection of Hexagon and Helical engravings from the Saphira PLP portfolio for every format size and machine type. The available variants are ready for immediate use and tailored to the respective requirements – for reliable coating results and stable processes.

Two engravings for special requirements

The **Saphira PLP Anilox Roller Perfect Screen** with patented engraving ensures particularly even coating application and an even smoother coating surface. Compared to standard engravings, you can either achieve more brilliant gloss results with consistent coating application or reduce coating consumption while maintaining a constant gloss level. The anilox roller also reliably processes demanding coatings that tend to foam, for example. Ideal for applications where efficiency and results count.

The **Saphira PLP Anilox Roller High Volume** is designed for applying particularly high film weights of coating. The specially developed engraving delivers reliable results – especially in packaging printing and effect coatings.

As flexible as your requirements

You can order standard engravings from the Saphira PLP portfolio directly and conveniently via the HEIDELBERG eShop.

Do you need a special engraving or roller? Feel free to contact your HEIDELBERG representative at any time. We will be happy to review your request and, if possible, manufacture customized solutions tailored to your application.

Loan roller program

Would you like to test before you decide? Then take advantage of our Saphira PLP loan roller program. It offers you a wide selection of engravings and volume specifications – including full size and banded rollers in all standard format sizes. This allows you to test different coating quantities in a single print run and compare them directly.

Scope of delivery

- Fully assembled anilox roller with new bearings
- Protective packaging including wooden box and protective cover
- Roller specifications on a magnetic label
- Test report

Visit the HEIDELBERG eShop and discover not only the right Saphira PLP Anilox Rollers for your application, but also our extensive portfolio of Saphira Consumables:



→ heidelberg.com/eshop

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Production note

Image credits: Heidelberger Druckmaschinen AG
Printing: Versafire
Printed in Germany

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Version Nov 2025