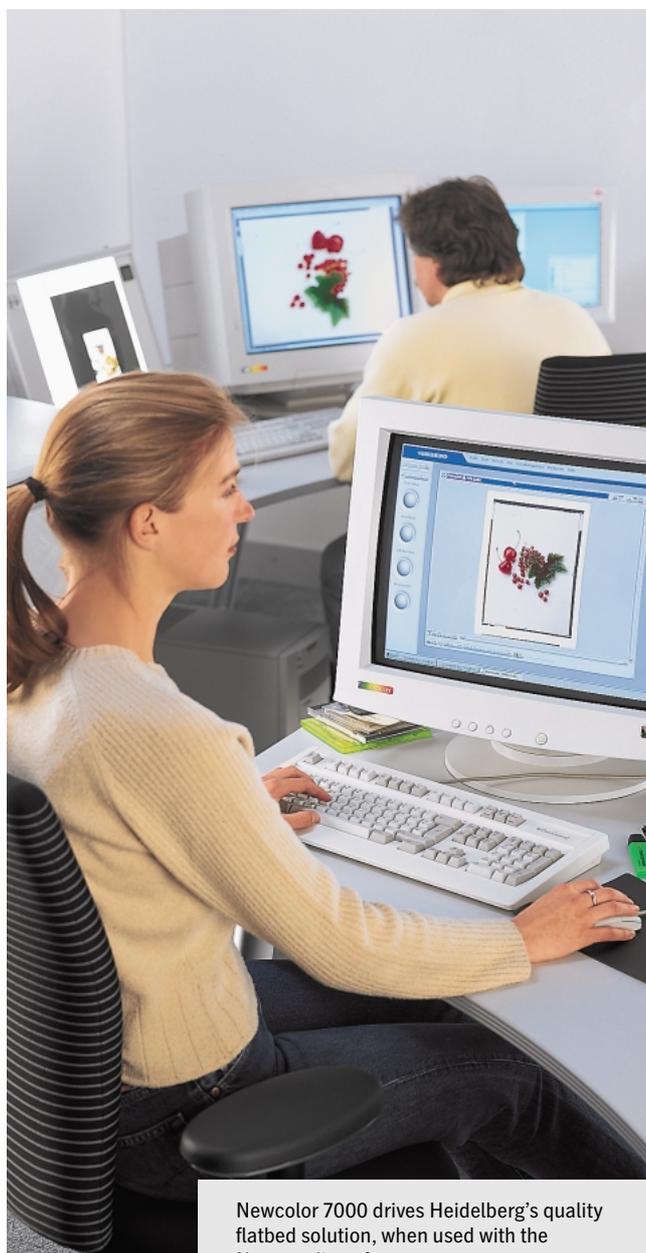# Newcolor 7000

Scanning perfection

HEIDELBERG

Scanning perfection • It's what you need when optimum throughput is the order of the day. It's what you get with Newcolor 7000 – the scanning and image enhancement software that powers-up the input end of your digital workflow.

Need unsurpassed quality and maximum throughput from your scanning and image enhancement software? Newcolor 7000 from Heidelberg has been developed to meet your highest requirements. Know-how drawn from years of research and development in scanning technology and a wealth of expertise in efficient color management have been incorporated into an application that is as easy to use as it is powerful. Newcolor 7000 offers you more unique advantages than any other scanning software on the market. Regardless of whether you are producing scans for different printing processes or for electronic media, Newcolor 7000 provides a whole range of functions for every operation. For instance, you get CIELab-based LCH controls that make color correction an intuitive experience. Newcolor also offers you powerful CMYK controls complete with unique, interactive GCR/UCR functions borrowed from the DC 3900 drum scanner for more advanced work. Coloropen tools have been integrated into the program so you can manage color more effectively right from the start.

Newcolor's user interface has been built from the ground up, based on input from leading industrial designers. The clear arrangement of its elements and its exceptional ease of use will make your operators more productive every time they open the application. Newcolor flattens the learning curve with online ToolTips and extensive Help functions.

As to the issue of quality, Newcolor 7000 provides you with sharpness algorithms that produce results that previously could be achieved only with special hardware. Yet Newcolor keeps the complexity level low. Navigating an image through the various color spaces is simple and straightforward, thanks to the program's consistent 16-bit structure. Plus, Newcolor 7000 is completely ICC-compatible for all input, output and monitor display functions. All of which makes Newcolor the most productive scanning solution around, with multitasking and multiprocessing support of all functions.

Newcolor 7000 drives Heidelberg's quality flatbed solution, when used with the Nexscan line of scanners.
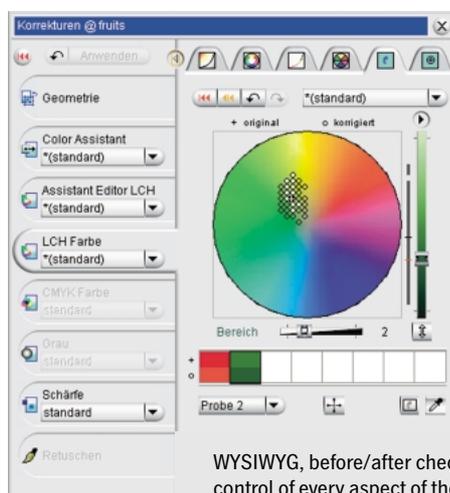
Five powerful assistants • Trained in Heidelberg's scanning know-how, they help you to streamline your scanning flow. Newcolor 7000 lets you handle more jobs automatically. All you have to do is add the occasional finishing touch.

Color Assistant can help you scan more quickly and reliably. It automatically applies the experience of the best color experts in the business to your company's specific needs. But Newcolor automates more mundane and time-consuming tasks as well. Geo Assistant, for example, can define the positioning of originals with exact precision, even if you have mounted a mass of different originals on the scanning tray or drum in no particular order. It also identifies whether parts of passe-partouts or other mounting tools have not been loaded with images. The Image Type Assistant, meanwhile, distinguishes between different types of originals – color, gray or line art. Crop Assistant removes the ultra-fine remnants of frames from the prescan and performs exact angling. Threshold Assistant gives you the special support you need for line art.

Newcolor 7000 also handles more demanding assignments with ease. Your operators can work intuitively, adjusting color as their eyes perceive it, in Luminance, Chroma and Hue (LCH). So you can rest

assured that black point, white point, gradations, color casts and color saturation will be just where you want them. With Newcolor's fine point and fine range correction, all of your scans will be top-of-the-line and that will sharpen your competitive edge. And you can control the quality every step of the way with Newcolor's softproof feature and before/after checks using Freeze View.

Every Newcolor function is ICC compatible ensuring top quality results through your entire workflow. You get consistent color and perfect definition all the way to print. This excellent quality is ensured by the use of standards that have been optimized by Heidelberg experts. Newcolor 7000 even allows you to set and assess sharpness based on your prescan – with everything under visual control. So what you see is what you get – WYSIWYG.

WYSIWYG, before/after checks and Freeze View give your operators visual control of every aspect of the job. Newcolor's user interface is clearly arranged and easy to use in every mode.

Difficult jobs made routine • The combination of Newcolor 7000 Professional and Primescan is your best solution to handle difficult vignettes, muted colors, skin tones and colorcasts in backgrounds.

Primescan drum scanners run with Newcolor 7000 Professional to update the traditions of the DC 3000.

Newcolor 7000 Professional puts you in complete control of all color spaces at all times. LCH corrections independent of Color Assistant and CMYK corrections that are true to the tradition of the legendary DC 3000 scanner mean you can handle even the most difficult scans with confidence. That results in absolute customer satisfaction. All functions are user-friendly, intuitive and easy to learn. All of the advantages are available to users of both Primescan drum scanners and Nexscan flatbed scanners. In fact, the new Nexscan technology has been developed specifically with Newcolor in mind.

The additional CMYK functions are at the very heart of Newcolor 7000 Professional. These print-specific functions, adapted from the DC 3000 series, are just as easy to use as the LCH functions. Newcomers to the challenging world of CMYK corrections will have no difficulty in finding their way. And it goes without saying that you can check every correction as it takes place in real time on the monitor. The direct before/after comparison using Freeze View will give you added security, as will the multi-step undo/redo feature. Image highlight and shadow can be set directly in CMYK. Global and neutral gradations can be corrected over the entire image, as well as catchlight and shadow addition adjustments. The sector correction function gives you the means to change complementary colors in exactly the way you want – to turn muted colors into brilliant ones. The UCR/GGR function can be used to change the black separation. Primescan and Newcolor 7000 Professional provide the perfect combination of all system components and guarantee you the best possible results.
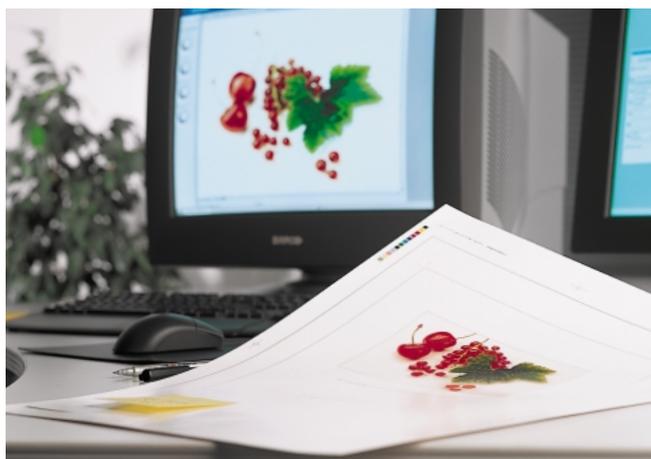
Color that holds true from scan to print • Integrated Coloropen tools ensure that the quality you achieve exceeds the quality your customers are looking for. With Newcolor 7000 on your side, satisfaction is guaranteed.

Newcolor 7000 provides high-quality ICC profiles for recurring jobs. The Scanopen option allows you to process different materials in the same high quality, scan after scan. Its set of calibration originals gives you the means to generate new profiles and to check existing ones quickly and easily.

Assessing color on the monitor is another important step in controlling the quality of the scan. Unfortunately the color the monitor displays is subject to fluctuations resulting from aging and the use of different production technologies. Newcolor's Viewopen option provides you with the tools you need to eliminate all color differences without having to invest in expensive hardware. An easy-to-use screen sensor is included to make calibrating your screens a snap.

Of course, it's on the printed sheet where your color consistency has to be beyond question. This is where the Printopen option can help. Its user-friendly menu allows you to enter color values directly, to calculate ICC print profiles, to define the black separation and to save profiles for later use. The option of assigning a description to each profile also helps eliminate errors.

For scanning, viewing and printing, the ICC profiles built into Newcolor allow you to integrate all devices effectively into your workflow. Consistent color is guaranteed and costly do-overs become a thing of the past. Whenever you're ready, you can upgrade to the full versions of Coloropen Tools, since they can be integrated seamlessly into Newcolor 7000 and Newcolor 7000 Professional to give you perfect scans every time.
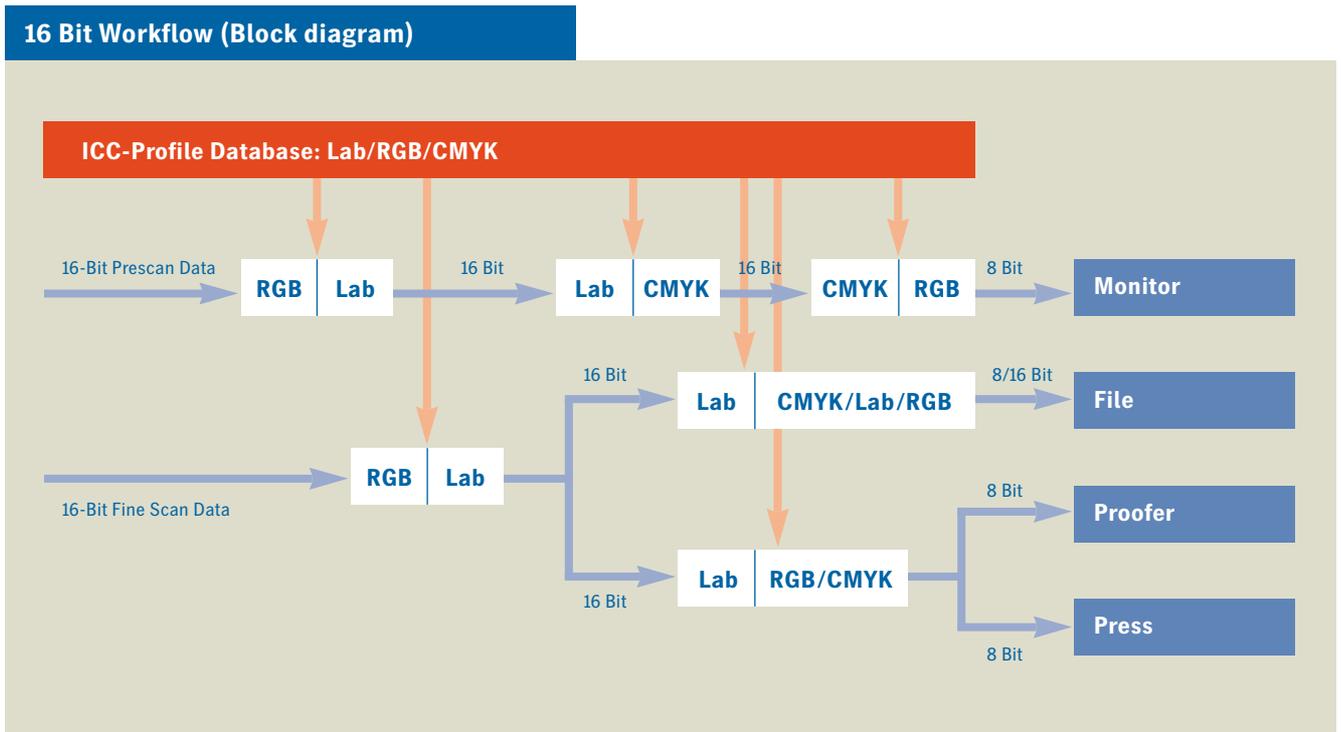

Newcolor with integrated Color Management guarantees you absolute color consistency in your workflow.

Productive technology • Newcolor gives you 16 bits for every function, USM algorithms for hardware-quality results, multitasking, multiprocessing, DC 3000 color capabilities, simple WYSIWYG control and Freeze View.

Newcolor gives you fully transparent 16-bit processing from the instant the original is initially scanned to the moment processing ends. Even the most demanding vignettes can be reproduced precisely in all color spaces. USM, rotation and scaling algorithms are delivered in a quality previously reserved for special-purpose hardware. Whether you're doing prescans or fine scans, you will always be assured of excellent quality.
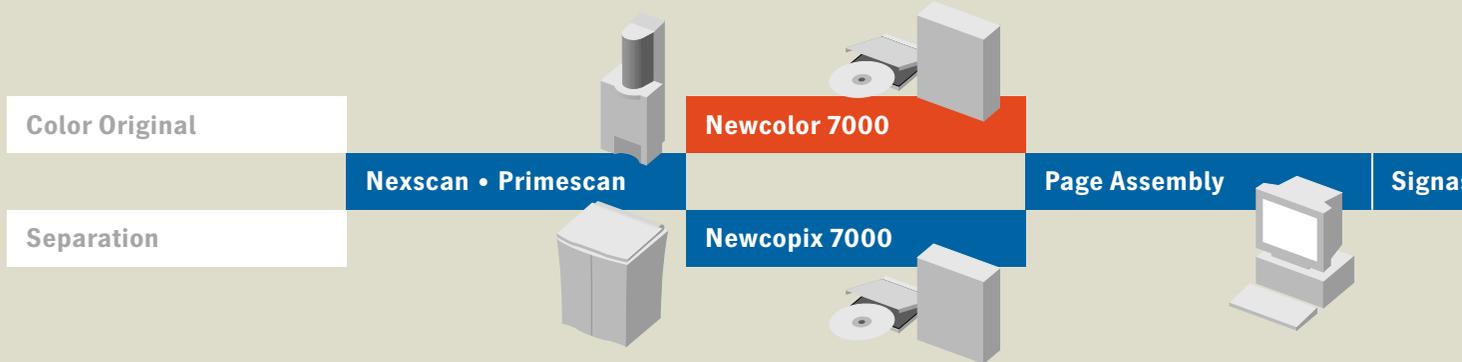
Each function supports multitasking and multiprocessing. Newcolor is the elegant solution, delivering high performance and supporting CMYK color corrections based on DC 3000 standards. WYSIWYG and Freeze View technology offer you a direct before/after comparison to get your production off to a great start.

16 Bit Workflow (Block diagram)

ICC-Profile Database: Lab/RGB/CMYK

16-Bit Prescan Data

| RGB | Lab | → 16 Bit → | Lab | CMYK | → 16 Bit → | CMYK | RGB | → 8 Bit → | **Monitor** |

16 Bit → | Lab | CMYK/Lab/RGB | → 8/16 Bit → | **File**

| RGB | Lab |

16-Bit Fine Scan Data

16 Bit → | Lab | RGB/CMYK | → 8 Bit → | **Proofer**

16 Bit

8 Bit → | **Press**

Scanning perfection

Top quality scanning and high speed throughput. That's the productive combination you get with Newcolor 7000 and Newcopix 7000. They give you more unique benefits than any other scanning software on the market.
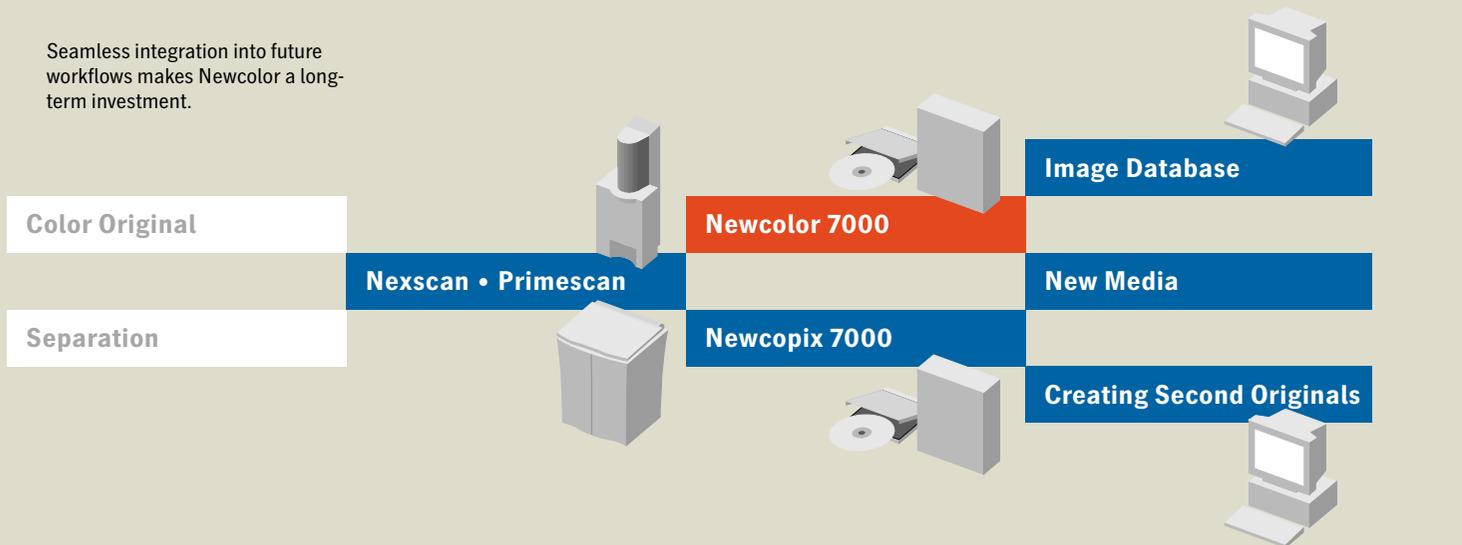
Scanning perfection: All color spaces are supported by LCH and CMYK functions. Assistants provide you with expert knowledge.

Color Original

Newcolor 7000

Nexscan • Primescan

Page Assembly

Signa

Separation

Newcopix 7000

Each original, reflective or transparency, positive or negative, underexposed or overexposed, color, black & white or line art can be processed virtually automatically.

Perfect redigitization:
All key steps are automated by assistants. All workflows are supported by SOOM (Scan Once Output Many).
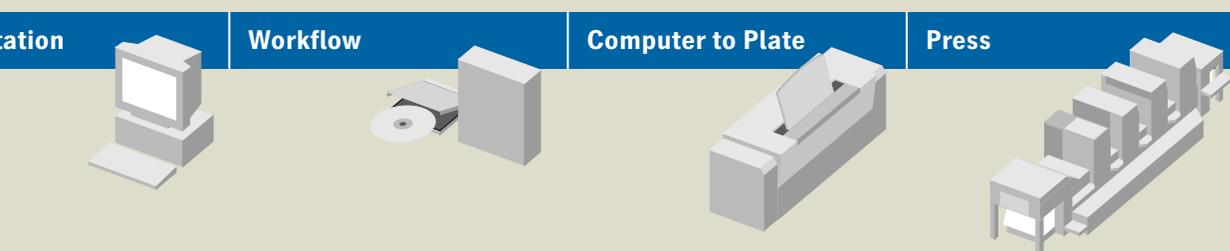
Seamless integration into future workflows makes Newcolor a long-term investment.

Image Database

Color Original

Newcolor 7000

Nexscan • Primescan

New Media

Separation

Newcopix 7000

Creating Second Originals

All corrections can be applied to both low-res and high-res scans. Media-neutral scanning also encompasses new applications.

Newcolor 7000 is the cornerstone for reliable Color Management.

Whether CtP, CtF or a proofing system, Newcopix 7000 adapts flexibly and cost-effectively to any workflow, thanks to SOOM.

...tation	Workflow	Computer to Plate	Press

Newcolor 7000

Newcolor 7000	Scanning and image enhancement software for PC/NT
Software protection	License key
Scope of delivery	Scanning software including extensive LCH corrections, Freeze View for simple before/after checks
Color Assistant	Automatic image analysis for image highlights/shadow, color cast compensation, contrast/hue gradation, detail in shadows/highlights
Geo Assistant	Automatic definition of scan orientation and empty passepartouts
Crop Assistant	Fine adjustment of scan frames and rotation angles
Image Type Assistant	Automatic recognition of original type
Threshold Assistant	Automatic line art analysis
Software options	Professional option with CMYK, global/neutral gradation, catchlight/shadow addition, sector/selective correction, UCR/GCR, extended LCH correction
	Scanopen option for generating scanner ICC profiles including calibration originals
	Viewopen option for generating monitor ICC profiles including monitor sensor
	Printopen option for generating ICC print profiles, Newcopix 7000 for redigitizing separations, including Copix/Descreen, Copix Assistant, Register Assistant
Color spaces supported	CIELab, CMYK
Data formats supported	TIFF Lab, TIFF RGB, TIFF G, TIFF B, TIFF CMYK, EPS, DCS
Workstation equipment	PC/NT, 600 MHz MMX CPU (multiprocessor is supported), 128 MB RAM, 16-GB hard disk, SCSI II, 21" monitor (with corresponding graphic board and 2 further monitors), 24-bit graphic board (AGP), NT 4.0

Heidelberg – Solutions for the Entire Printing and Publishing Business • Our commitment is to being the best partner to the graphic arts industry, offering forward-looking solutions. Worldwide – Heidelberg is where your needs are met.

Our focus: the customer. Heidelberg provides custom-designed printing solutions for large and small companies.
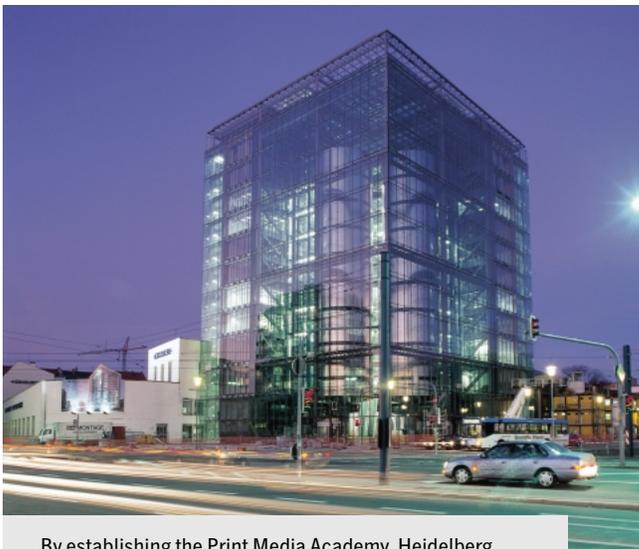

Borders are dissolving. And that is why the Heidelberg Group has evolved into a global player for modern print solutions. But also within the world of printing, borders are rapidly vanishing. The previously separate realms of prepress, press and postpress are increasingly merging

By establishing the Print Media Academy, Heidelberg is providing the global graphic arts community with a unique center for sharing knowledge.

within the scope of integrated solutions. Heidelberg has played a central role in driving this dynamic process. And our goal is still to play a leading part in shaping the future of the graphic arts industry.

Customer focus is our policy. No matter whether we are dealing with family-run operations or large corporations – our modular components offer them tailored solutions ranging from individual products to entire workflows. Heidelberg covers every stage of the print process chain with products and services that define the future of the graphic arts. Our customers can count on having a competent, reliable partner ready to support them in all areas – 365 days a year, from 250 sales and service centers worldwide.

By establishing the Print Media Academy, we have created an international center for innovation, communication and training that not only covers classical training of printers and mechanics, but also blazes new trails by offering an advanced course for print managers.

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