Quickmaster DI Pro

Product Information

HEIDELBERG

The Quickmaster DI Pro • your answer to an attractive market

The fast-growing short run color market is characterized by short print runs, fast throughput times and high quality requirements. The Quickmaster DI™ Pro printing press, a tried-and-tested system which we are constantly enhancing, offers you the chance to serve this market in a cost-effective manner.

The advantages

Cost-effectiveness and profitability
The Quickmaster DI Pro makes printing simple, fast and cost-effective
- Seamless linkup of all workflow components to form a complete integrated concept
- Direct transfer of digital data into the printing press
- Elimination of expensive and time-consuming intermediate stages
- Flexibility in the production of high-quality printed matter
- Fast processing of demanding print jobs
- Minimum makeready times (< 10 min)
- Clear cost savings through reduced startup waste
- Fast job changes
- High production run speed (up to 10,000 sheets per hour)
- High degree of automation, e.g. automatic color presetting
- Fast job throughput times and high process reliability
- Easy to use GUI
- Convenient job management

Versatility and flexibility
Since it is so versatile, the Quickmaster DI Pro offers you outstanding flexibility in its application
- Wide range of printing stock including India paper, foils, envelopes and Chromolux
- Material thicknesses between 0.0016" and 0.012"
- All formats from postcards to B3+ posters

- Flexible data handling means customers can make changes right up to the last minute
- Printing with process colors and special colors

Quality

The Quickmaster DI Pro combines the high quality of offset printing with the speed of the digital workflow

- High registration accuracy
- True-to-register imprinting, for example with a fifth or sixth color
- Waterless offset printing with optimum color consistency
- High reproducibility and accuracy in the production run
- Fast finishing: Highly rub-resistant results mean that folding, cutting and binding can be performed almost immediately
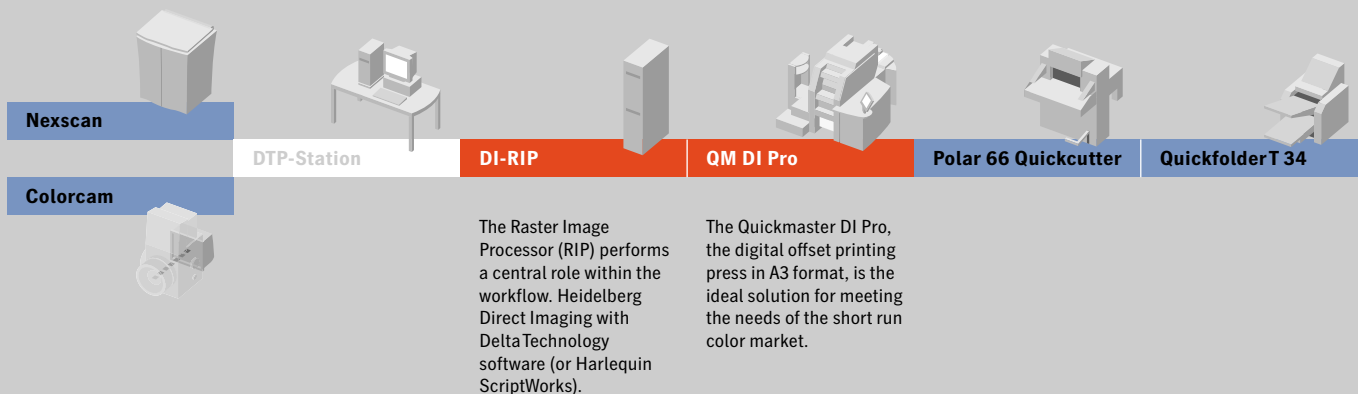
The system configuration

Workflow

- Uses a powerful IBM Intel workstation, optimized for Delta™ Technology
- Automatic quality control thanks to preflight testing and security functions
- High print quality with optimized screens and Color Management
- High processing speed thanks to optimized processes
- Flexible integration options for different workflow components
- Compatible and future-focused solutions using standards (Adobe® PostScript®, PDF and R.O.O.M. concept)
- Plus: Delta Technology 7.0 from Heidelberg® allows an 200 lpi screen at 1,270 dpi

Operating concept

- Simple operation using the CP2000 Center™
- Direct control of the entire printing process via touch-screen
- Easy-overview ink zone display
- Fully-automatic job preparation while press is running
- Convenient job management: Standard or repeat jobs can be stored and retrieved
- Viewer provides detailed view (softproof)

Modular Solutions from Heidelberg

Nexscan					
DTP-Station	**DI-RIP**	**QM DI Pro**	**Polar 66 Quickcutter**	**Quickfolder T 34**
Colorcam					

DI-RIP
The Raster Image Processor (RIP) performs a central role within the workflow. Heidelberg Direct Imaging with Delta Technology software (or Harlequin ScriptWorks).

QM DI Pro
The Quickmaster DI Pro, the digital offset printing press in A3 format, is the ideal solution for meeting the needs of the short run color market.

• Editor for individual setting and checking of color profiles

High-quality printing units
• Outstanding print quality with waterless offset printing
• Fully-automatic printing plate changes
• Precise setting of ink metering
• Heidelberg production quality

Inking units
• 4 high-performance waterless offset inking units, each with 12 rollers
• Each with 3 ink distributors
• Inking unit temperature control
• Remote-control CP knife-type ink fountains, each with 12 ink zones
• Automatic color presetting
• CP-controlled ink fountain rollers (adjustable from 0 to 100)

Feeder
• Lateral sheet guidance by CP2000 Center
• Stream feeder (single sheet mode selectable)
• Electronic monitoring of sheet travel
• Double sheet detector
• Fast format changes

Delivery
• Chain delivery with four gripper bars
• Disengagement of delivery during imaging process
• Gripper opening cam adjustable on-the-fly

Options
• Impression cylinder washup device
• Dryer: Integrated DryStar™ Ink compact infrared dryer
• Advanced feeder package

For further information

Ask your Heidelberg representative for the 28-page product brochure and the DryStar Ink compact brochure. Or visit us on the web at: www.heidelberg.com.

Technical data

Formats	
Max. sheet format	460 x 340 mm (18 $^1/_8$" x 13 $^3/_8$")
Min. sheet format	140 x 89 mm (5 $^1/_2$" x 3 $^1/_2$")
Largest printable area	450 x 330 mm (17 $^3/_4$" x 13")
Gripper margin	10 mm ($^{13}/_{32}$")
Stock thickness	0,04 bis 0,30 mm (0.0016" to 0.012")
Register accuracy	0,02 mm (0.00079")
Direct Imaging	
Imaging resolutions	1,270 dpi / 200 lpi (alternative: 2,540 dpi)
Imaging times	< 4 min. at 1,270 dpi
Laser diods per printing unit	16
Printing plates	
Printing plate for thermal imaging on supply reel, polyester base material	
No. masters per reel	35
Blanket cylinders	
Length x width metal edged	555 x 337 mm (21 $^7/_8$" x 13 $^1/_4$")
Thickness	1.95 mm (0.077")
Blanket cylinder undercut	2.3 mm (0.091")
Production speed	
Max. production run speed	10,000 sph
Min. production run speed	3,500 sph
Crawl mode	500 rph
Inking unit	
No. rollers	12 (incl. fountain roller)
Form rollers	3
Diameter of the form rollers	54.7-45-50 mm (2 $^1/_8$ – 1 $^3/_4$ – 2")
Pile heights	
Feeder	900 mm (2'11 $^3/_8$")
Delivery	450 mm (1'5 $^3/_4$)
Connection power	
Power consumption (at 50/60 Hz)	Approx. 14.8 kW
Dryer opt. (50/60 Hz)	Approx. 16.0 kW
About the press	
Dimensions (length x width x height)	318 x 276 x 190 cm (10'5 $^2/_8$" x 9' $^6/_8$" x 6'3")
Weight	4,850 kg
Emission values	<80 dB (A)
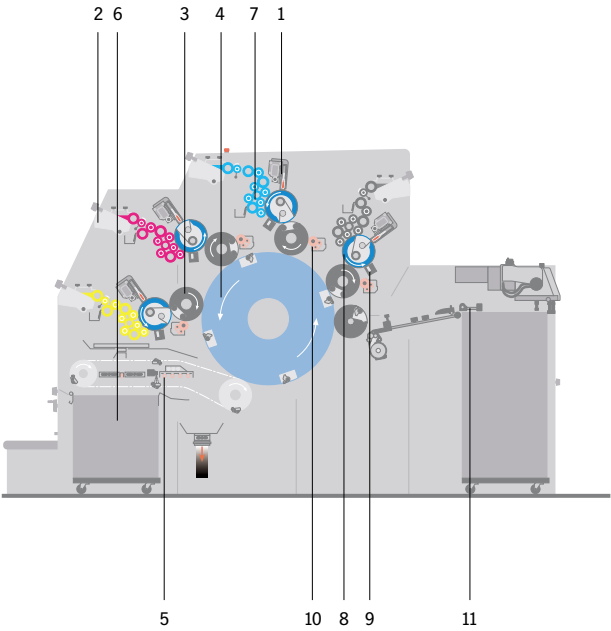
1 Imaging unit with 16 laser diodes
2 Remotely controlled CP knife-type ink fountain
   with 12 ink zones
3 Blanket cylinder
4 Quadruple-diameter central impression cylinder
5 Dryer (optional)
6 Delivery
7 Temperature-controlled inking system for waterless
   offset with 12 rollers, including 3 form rollers with
   different diameters
8 Plate cylinder for fully automated plate changes for
   35 masters per reel
9 Plate cylinder cleaning system
10 Blanket washup system
11 Stream feeder

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