

Speedmaster SM 74

HEIDELBERG



The Flexible Half-Format Solution.

The Speedmaster SM 74 Makes Versatility a Concept for Success.



When changing format or printing stock, the feeder with central suction tape gets production off to a fast start.

A wider range of half-format options. With the Speedmaster® SM 74, Heidelberg® offers you a modular press concept with a whole range of configurations – from basic to highly automated. This wide array of options enables you to make focused and flexible decisions to ensure your press is geared towards your business model and specific operating requirements. This makes the Speedmaster SM 74 the ideal press for commercial printshops.

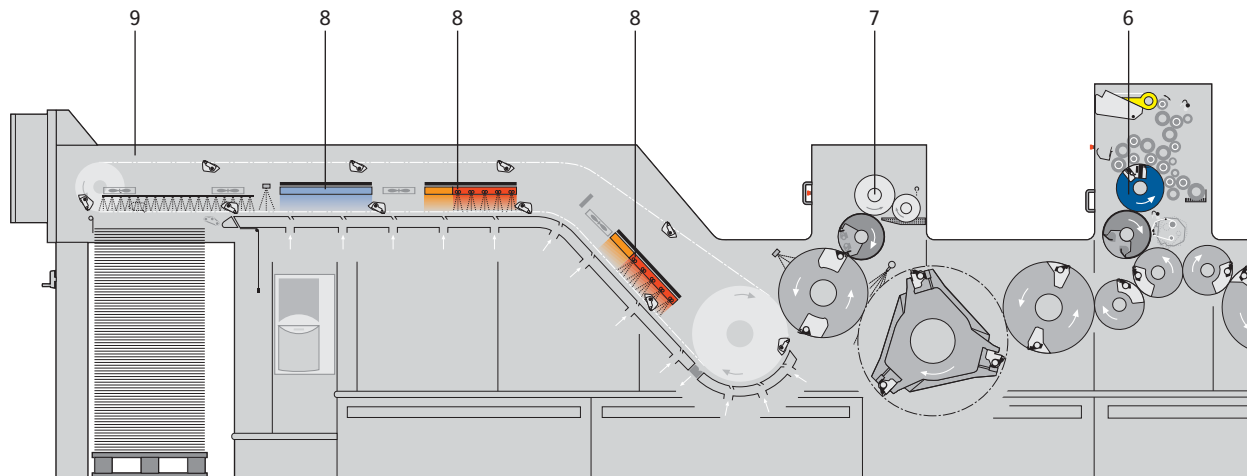
The Prinect Press Center – more than just a control station. The high-performance Prinect Press Center™ combines the press control system and remote color and register control in a single central console. When changing jobs, the innovative, process-oriented operator guidance system Intellistart dramatically reduces makeready times, thereby boosting your productivity. The delivery control panel with touchscreen and jog-wheel also ensures maximum ease of use. For presses with blade-type ink fountains, operation is via the compact Onpress Center at the delivery.

Get off to the ideal start with the feeder. The tried-and-tested suction tape feeder with central suction tape combines precision with reliability and ease-of-use. The suction head with combined lifting/forwarding suckers and, in some configurations, speed-compensated blast air reliably processes paper thicknesses of up to 0.6 mm (0.024 in). Lateral sheet separation blowers separate sheets more effectively and ensure smooth paper travel regardless of what printing stock is in use. Presettings can be used to input pull lay and front lay settings quickly and easily. Double sheet detectors and light barriers deliver maximum reliability in production and extremely stable conditions, even at top speed.

The printing units combine precision and cost efficiency. The plate clamping system EasyPlate® with automatic positioning run makes plate changes straightforward and precise. AutoPlate ensures even quicker plate changes, thereby cutting makeready times dramatically. The combined washup device for blanket and impression cylinders and the automatic inking roller washup device deliver fast and thorough cleaning – and do so in an exceptionally economic and environmentally friendly way. Depending on your chosen configuration, the Speedmaster SM 74 has either a Heidelberg ink fountain that can be controlled remotely or a laser-slit blade-type ink fountain. The speed-compensated dampening system Alcolor® achieves an incredibly thin film of dampening solution and a consistent ink/water balance. The inking unit temperature control system CombiStar® ensures consistent printing conditions, cuts startup times and reduces waste.

Inside View, Technical Data

Speedmaster SM 74



The press shown here is a sample configuration. Some of the features shown are optional.

1 Suction tape feeder

2 Inking unit

3 Fully automatic perfecting device

4 Speed-compensated dampening system Alcolor

5 Combined washup device for blanket and impression cylinders

6 AutoPlate

Printing stock

Min. sheet size (straight printing)	210 mm × 280 mm (8.27 × 11.02 in)
Min. sheet size (straight printing with pile support plate in the feeder)	280 mm × 280 mm (11.02 × 11.02 in)
Min. sheet size (perfecting mode)	300 mm × 280 mm (11.81 × 11.02 in)
Max. sheet size	530 mm × 740 mm (20.87 × 29.13 in)
Max. print format	510 mm × 740 mm (20.08 × 29.13 in)
Thickness	0.03 mm – 0.6 mm (0.0012 – 0.024 in)
Gripper margin	8 mm – 10 mm (0.31 – 0.39 in)

Maximum print output

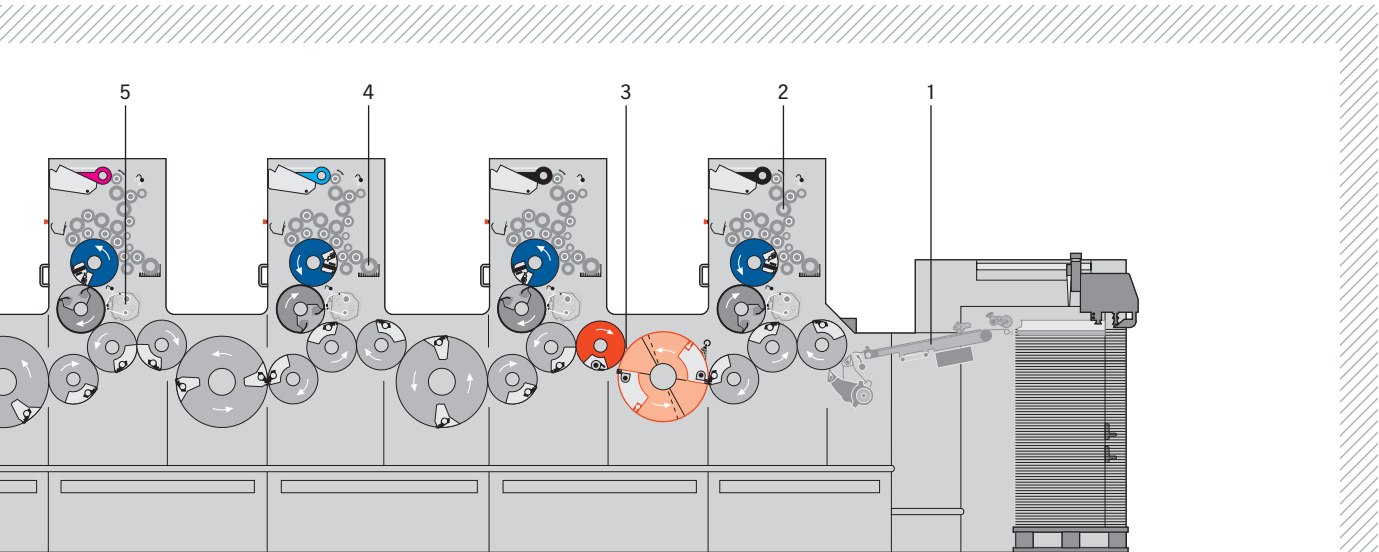
Speedmaster SM 74 2-color to 10-color (including perfecting mode)	15,000 sheets/hour
Speedmaster SM 74-8-P+L	13,000 sheets/hour

Plate cylinder

Undercut	0.15 mm (0.0059 in)
Distance from leading edge of plate to start of printing	59.5 mm (2.34 in)

Plates

Length × width	605 mm × 745 mm (23.82 × 29.33 in)
Thickness	0.25 mm – 0.30 mm (0.0098 – 0.012 in)



- 7 Two-roller coating system
- 8 Dryer system DryStar Combination
- 9 High-pile delivery

Blanket cylinder

Length × width	616 mm × 772 mm
Blanket without metal edging	(24.25 × 30.39 in)
Length × width	627 mm × 772 mm
Metal-backed blanket	(24.69 × 30.39 in)
Thickness of blanket	1.95 mm (0.077 in)
Undercut	2.3 mm (0.091 in)

Coating blanket cylinder

Length × width	627 mm × 772 mm
Metal-backed coating blanket	(24.69 × 30.39 in)
Length × width	605 mm × 745 mm
Coating plate	(23.82 × 29.33 in)
Undercut	3.2 mm (0.13 in)
Distance from leading edge of coating plate to start of coating	47.6 mm (1.87 in)
Max. coating area	510 mm × 740 mm
	(20.08 × 29.13 in)

Pile heights (incl. pile carriage or pile support plate and pile board)

Feeder	1,060 mm (41.73 in)
Standard delivery	597 mm (23.5 in)
High-pile delivery	1,156 mm (45.51 in)

Sample configuration

Dimensions of the Speedmaster SM 74-4 with extended high-pile delivery

Number of printing units	4
Length	7.93 m (312.20 in)
Width	2.90 m (114.17 in)
Height	1.93 m (75.98 in)

Technical data can vary according to job, ink, printing stock and, possibly, other factors.

Sheet travel and perfecting technology for best quality on both sides of the sheet. The sheet travel of the Speedmaster SM 74 has been designed for a wide range of printing stocks with material thicknesses of between 0.03 and 0.6 mm (0.0012 and 0.024 in). The fully automatic perfecting device enables you to print on both sides of a sheet in a single pass. You can therefore boost the efficiency and cost-effectiveness of your production and achieve faster throughput times for your print jobs. The tried-and-tested three-drum perfecting device with patented pincer gripper system transfers sheets with excellent register accuracy in a gripper closure. The special surfaces of the TransferJacket and PerfectJacket cylinder jackets deliver optimum print quality and require minimal cleaning.

Variable coating systems – for all your coating needs. The Speedmaster SM 74 offers a choice of coating systems – the two-roller system and the chambered blade system. The combination coating unit enables you to change between these two systems quickly and easily. The two-roller system is ideal for frequent printing stock changes and full-area or spot coatings. The chambered blade system comes into its own when metallic coatings, fine spot coatings and special coatings are required.

The right delivery configuration for your needs. The compact standard delivery is ideal if your jobs mainly involve short and medium runs.



The compact standard delivery requires only little space.

When processing longer runs, the high-pile delivery means fewer pile changes need to be made. Control is via the high-performance Prinect Press Center control station or the convenient delivery control panel with touchscreen and jogwheel. Venturi nozzles in the sheet guide plate prevent sheets from being smeared and scratched during perfecting or work-and-turn operations. The high-pile delivery can be equipped with the right dryer for any application. The DryStar® Ink drying system gets you to the finishing stage faster. During coating applications, the extended high-pile delivery with DryStar Combination dryer ensures outstanding drying results.

Some of the features referred to in this document are optional. They may differ from country to country.

The advantages for your printing process:

- **Makeready times:** Comprehensive preset functions and automated processes cut your makeready and setup times. The Prinect Press Center cuts the number of operating steps you need to perform by 70 percent.
- **Productivity:** You benefit from high production speeds of up to 15,000 sheets per hour, short makeready and setup times and minimum waste.
- **Quality:** The high register accuracy and smooth sheet travel from feeder to delivery ensure exceptional print quality on both sides of the sheet.
- **Integration:** Fully integrated into the Prinect workflow, you can benefit from the ultimate in data management at the Prinect Press Center.
- **Environment:** Low levels of waste help you reduce your consumption of valuable resources.

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Heidelberger Druckmaschinen AG

Kurfuersten-Anlage 52-60
69115 Heidelberg
Germany
Phone +49 6221 92-00
Fax +49 6221 92-6999
www.heidelberg.com