

Technical information

Speedmaster XL 106

Everyone is talking about Industry 4.0 or, reframed for the printing industry, Print Shop 4.0. Now is the time to seize the opportunity and develop business visions, scrutinize historical business models, and actively shape the necessary change processes.

The Speedmaster® XL 106 drupa 2020 generation from HEIDELBERG® is the most intelligent Speedmaster yet. It offers you innovative solutions specially tailored to the needs of classic commercial printing as well as complex packaging printing applications. The machines thus give you the best possible foundation from which to reinvent yourself for the future.

Experience undreamt-of performance. With Push to Stop, the efficiency of print production (OEE) can be raised to a level that has been difficult to achieve in the past. The Intellistart® 3 assistance system revolutionizes your job changes with comprehensive, time-optimized automation.

Push to Stop and the implementation of artificial intelligence offer you a unique user experience (UX): autonomous and navigated printing across the entire printing process. The Intelliline can be used to visualize the respective machine states.

Machine operation is now easier than ever – the HEIDELBERG User Experience of the Speedmaster will inspire you.

The ultimate Speedmaster – Speedmaster XL 106.

Publishing information

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For details on the emissions of the Speedmaster XL 106, please visit us at heidelberg.com/emissiondetails

Subject to technical modifications and other changes.

Version Mar 2023



Technical data Speedmaster XL 106

Printing Stock	
Max. sheet size	750 mm × 1,060 mm (29.53 in × 41.73 in)
Min. sheet size (straight printing)	340 mm × 480 mm (13.39 in × 18.90 in)
Min. sheet size of Speedmaster XL 106-P ¹ (perfecting mode and straight printing with 18,000sph option)	410 mm × 480 mm (16.14 in × 18.90 in)
Min. sheet size (with auto-nonstop operation delivery)	440 mm × 600 mm (17.32 in × 23.62 in)
Max. print format (straight printing)	740 mm × 1,050 mm (29.13 in × 41.34 in)
Max. print format (perfecting mode)	730 mm × 1,050 mm (28.74 in × 41.34 in)
Thickness ³ (XL 106 w/o perfecting device, w/o auto-nonstop operation delivery)	0.03 mm – 1.00 mm (0.0012 in – 0.039 in)
Thickness ³ (XL 106 w/o perfecting device, with auto-nonstop operation delivery)	0.07 mm – 1.00 mm (0.0028 in – 0.039 in)
Thickness (XL 106-P ^{1/2} w/o auto-nonstop operation delivery)	0.03 mm – 0.80 mm (0.0012 in – 0.031 in)
Thickness (XL 106-P ^{1/2} with auto-nonstop operation delivery)	0.07 mm – 0.80 mm (0.0028 in – 0.031 in)
Gripper margin stock thickness < 0.8 mm (0.03 in)	10 mm – 12 mm (0.39 in – 0.47 in)
Gripper margin stock thickness > 0.8 mm (0.03 in)	11 mm – 12 mm (0.43 in – 0.47 in)
Maximum print output Speedmaster XL 106	
Standard	18,000sph
Maximum print output Speedmaster XL 106-P¹	
Standard	15,000sph
Optional	18,000sph
Plate cylinder	
Cylinder undercut	0.10 mm (0.004 in)
Distance from lead edge of plate to lead edge of print	53 mm (2.09 in)
Plates	
Length × width	811 mm × 1,055 mm (31.93 in × 41.54 in)
Thickness	0.24 mm – 0.30 mm (0.009 in – 0.012 in)

Blanket cylinder	
Length × width blanket (metal-barred)	885 mm × 1,077 mm (34.84 in × 42.40 in)
Thickness, blanket	1.95 mm (0.077 in)
Length × width packaging sheet	765 mm × 1,052 mm (30.12 in × 41.42 in)
Cylinder undercut	2.30 mm (0.091 in)

Coating blanket cylinder	
Length × width coating blanket (metal-barred)	828 mm × 1,072 mm (32.60 in × 42.20 in)
Length × width coating plate	819 mm × 1,060 mm (32.24 in × 41.73 in)
Max. coating area	740 mm × 1,050 mm (29.13 × 41.34 in)
Cylinder undercut	3.20 mm (0.126 in)
Distance from lead edge of coating plate to lead edge of coating	43 mm (1.69 in)

Pile heights (incl. pile table and pile support plate)	
Preset Plus feeder	1,320 mm (51.97 in)
Preset Plus delivery	1,295 mm (50.98 in)
Elevated press	+525 mm (20.67 in) or +875 mm (34.45 in)

Sample configuration	
Basis: Speedmaster XL 106-6+L with Preset Plus feeder and Preset Plus delivery with two delivery extension modules	
Number of printing units	6
Number of coating units	1
Length	16.59 m (653.15 in)
Width	3.93 m (154.72 in)
Height	2.08 m (81.89 in)

¹ P stands for press with perfecting device

² Maximum flexural strength 130 mNm (1.15 ibf in), measured to DIN 53121

³ From 0.8 mm substrate thickness or 600 g/mm² (flexural stiffness 300 N/mm)
only available in combination with the cardboard kit

Technical data subject to job, consumables, substrate, and possibly other factors.



You can find more about the details of your Speedmaster
here: heidelberg.com/xl106/machine-comparison