

PremiumSetter® S1700 SL



The PremiumSetter S1700 SL is an innovative laser engraving system for direct laser engraving of elastomer and photopolymer sleeves as well as plates for Dry Offset, Letterpress, Flexography and varnishing applications.

The S1700 SL offers the following functions and benefits:

- 1 High-power laser that optimizes beam quality and spot size in combination with the innovative HELL optical head, for reproduction of ultrafine elements and screens;
- 2 the *jobticket workflow*, which ensures maximum prepress efficiency with its intelligent production management and OneButton operation;
- 3 *OnlineEngine*, which uses predefined parameters in the *PremiumProfiler* to convert 1-bit TIFF data into three-dimensional 8-bit TIFF direct engraving data on the fly, for a fully digital process without any analog processing steps.

The HELL PremiumSetter® S1700 SL

PremiumSetter technology from HELL combines maximum resolution with the 3D shaping of print elements. All relief parameters like undercut, first step and shoulder profile are digitally controlled and precisely engraved – something that is impossible in other manufacturing processes.

HELL offers the S1700 SL with simplified handling for imaging of elastomeric and photopolymer sleeves for flexographic printing. The PremiumSetter's cantilever on one side makes it far easier to handle sleeves.

For imaging of elastomeric and photopolymer printing plates for Dry Offset, Letterpress and Flexography as well as for varnishing plates the S1700 SL is optionally equipped with a device which allows a simplified plate handling.

Using up to two lasers with a total output of 1200 W, the S1700 PL takes the existing performance in this market segment to a whole new level.

Printing plates		PremiumSetter S1700 SL
Plate types	<ul style="list-style-type: none"> - Elastomer sleeves - Elastomer on steel-base plates - Elastomer on polyester-base plates - Digital photopolymer printing plates (LAMS) 	
Sleeve formats	Circumference: 320 up to 1350 mm Length: up to 1700 mm (250 - 320 mm circ. up to 1500 mm length)	
Plate formats *	Sizes up to: 1350 x 1650 mm / 53 x 65 inch Can be imaged up to: 1330 x 1650 mm	
Plate thickness *	up to 3 mm	
Functions		
PremiumProfiler	3D definition of screen dot profiles	
Job ticket workflow *	Preparation of production jobs outside PremiumSetter for convenient and reliable job preparation and reduced setup times on PremiumSetter	
On-button engraving *	Extremely straightforward operation for engraving prepared job tickets	
OnlineEngine	On-the-fly digital shaping of 3D engraving data on PremiumSetter	
Sequential engraving *	Engraving of several jobs in one operation with just one makeready process	
Platemaster *	Automatic positioning of repeats based on presets, optimized arrangement, and guillotine cutting	
PlateOptimizer *	Manual positioning of repeats under visual control	
Export for cutting table *	Digital stencil data provided	
Mirroring	Mirroring engraving data in circumferential direction	
Passive FastForward	Fast crossfeed for skipping large solid areas	
Brushing	Cleaning of the printing form after lasering	
Engraving status display	Display showing remaining engraving time	
Laser and optics		
Laser principle	Fiber laser, diode-pumped	
Laser power	1-beam, 600 W 2-beam, 2 x 600 W	
Write resolution	2540 - 5080 dpi	
Screen ruling	Continuous	
Relief depth	Up to 800 µm / singlepass Up to 3 mm / multipass	
Input data	1-bit TIFF, screened 8-bit TIFF	
Cooling	External cooling unit with closed water circuit	
Extraction	Separate turbine and filter unit	
Dimensions		
Basic unit (L x W x H)	2835 x 2025 x 1231 mm	
Weight	Approx. 3250 kg	

Subject to design modifications. Errors excepted.

* Depends on system design

Version: C11

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