

PremiumSetter® S1700 PL



**The PremiumSetter S1700 PL from HELL is an innovative laser engraving system for direct laser-
ing of elastomer printing plates for Dry Offset, Letterpress, Flexography and varnishing plates as
well as for imaging digital photopolymer plates (LAMS).**

The S1700 PL offers the following functions and benefits:

- 1 Simplified plate handling for user-friendly loading and unloading using the integrated loading table, vacuum cylinder with clamping bar function, and footswitch control;
- 2 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;
- 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 PL

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 PL with simplified handling for imaging of large format elastomeric and photopolymer printing plates for Dry Offset, Letterpress and Flexography as well as varnishing plates. An integrated loading table incorporating guide bars, a vacuum cylinder with clamping bar, and footswitch control results in extremely user-friendly loading and unloading.

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 PL
Plate types	- Elastomer on steel-base plates - Elastomer on polyester-base plates - Digital photopolymer plates (LAMS)	
Plate thickness	up to 6.35 mm	
Plate size	Sizes up to 1350 x 1650 mm / 53 x 65 inches Can be imaged up to max. 1330 x 1650 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	
One-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 presettings, 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)	3606 x 1353 x 2020 mm	
Weight	Approx. 3650 kg	

Subject to design modifications. Errors excepted.

* Depends on system design

Version: D10

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