

PremiumSetter® D2000



The PremiumSetter D2000 from HELL is an innovative laser engraving system for direct laser engraving of elastomer printing plates for Dry Offset, Letterpress, Flexography and varnishing plates as well as for imaging digital photopolymer plates (LAMS).

The D2000 offers the following functions and benefits:

- 1 Simplified plate handling, which makes the loading and unloading process particularly user-friendly by using the integrated loading table, the vacuum cylinder with terminal strip function and the foot switch control system;
- 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.

Der HELL PremiumSetter® D2000

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.

The imaging of elastomeric printing plates (polyester or metal base) as well as digital photopolymer printing plates is particularly easy on the D2000. For this purpose, the D2000 is equipped with a simplified plate handling: an integrated loading table with stops, a vacuum cylinder with clamping bar function and footswitch control make loading and unloading of the printing plate particularly user-friendly.

Using up to two lasers with a total output of 1200 W, the D2000 takes the existing performance in this market segment to a whole new level.

Printing plates		PremiumSetter D2000
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 1510 x 2050 mm / 59 x 81 inch Can be imaged up to max. 1470 x 2020 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	
Hotfolder	Automatic creation of job tickets	
One-button engraving	Extremely straightforward operation for engraving prepared job tickets	
OnlineEngine	On-the-fly digital shaping of 3D engraving data on PremiumSetter	
Platemaster	Automatic positioning of repeats based on presets, optimized arrangement, and guillotine cutting	
PlateOptimizer *	Manual positioning of repeats under visual control	
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	1064 nm Fiber laser, diode-pumped	
Laser power	1-beam, 600 W 2-beam, 2 x 600 W	
Medium performance **	1-beam up to 0.5 m²/h 2-beam up to 1 m²/h	
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)	3731 x 1978 x 1252 mm	
Weight	Approx. 3650 kg	

* Depends on system design

** Depending on laser power, material and engraving depth

Subject to design modifications. Errors excepted.

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