

PremiumSetter D2000

LARGE-FORMAT DIRECT LASER FOR PLATES AND SLEEVES



❖ **The HELL PremiumSetter D2000 is a large-format laser engraving system for direct laser engraving of elastomer printing forms for dry offset, letterpress, flexographic printing and coating plates as well as for imaging digital photopolymer printing forms (LAMS). In the hybrid version, the D2000 engraves both plates and sleeves.**

The D2000 offers all the advantages of PremiumSetter technology:

- The **two-stage process** (engraving and washing) ensures fast availability of printing forms, which are characterized by a long service life.
- The **simplified plate handling** by means of an integrated loading table, clamping bar function and foot switch operation makes the loading and unloading of large printing plates particularly user-friendly.
- The **simplified sleeve handling** by means of a one-sided bearing and pivot device (cantilever) makes handling round printing forms extremely easy.
- **Engravings in HD quality** are a matter of course for PremiumSetter, thanks to resolutions of up to 5080 dpi in conjunction with the controllable three-dimensional relief formation of the printing form.

Configurations and technical details

D2000 PLATE D2000 SLEEVE D2000 HYBRID

Direct laser engraving system for elastomer printing plates incl. loading table and vacuum cylinder.

Direct laser engraving system for elastomer sleeves incl. cantilever mount and mandrel.

Direct laser engraving system for elastomer printing plates and sleeves incl. loading table and vacuum cylinder as well as cantilever mount and mandrel.

The D2000 is available in three configurations.

Printing forms	
Plate types*	<ul style="list-style-type: none"> ▪ Elastomer on steel-base plates ▪ Elastomer on polyester-base plates ▪ Digital photopolymer plates (LAMS)
Plate size	up to 1350 x 2032 mm / 53 x 80 inches Can be imaged up to 1300 x 2032 mm
Plate thickness	up to 6.35 mm
Sleeve size*	Circumference: 320 to 1350 mm Length: up to 2032 mm (Circumf. 250-320 mm: up to 1900 mm length)
Data, laser and optics	
Input data	screened 1-bit TIFF / 8-Bit TIFF
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	Stepless
Relief depth	Up to 800 µm / singlepass, Up to 3 mm / multipass
Dimensions	
Basic Unit (LxWxH)	3924 x 2039 x 1694 mm (with closed cover)
Weight	approx. 3650 kg (without zylinder)
Auxiliary units	
Cooling	External cooling with closed water circuit
Suction	Separate turbine and filter unit

Functions	
PremiumProfiler	3D definition of the screen dots
Undercut	Controlled undercut of printing elements
OnlineEngine	Digital socking of the 3D engraving data on-the-fly
Jobticket Station*	External work preparation
OneButton Engraving*	Simple processing of prepared engraving jobs
Platemaster	Automatic positioning of repeats
Sequence engraving	Automatic engraving of multiple jobs
MultiPass	Increasing the maximum engraving depth through multiple engravings
FastForward	Productivity gain (according to configuration and application)
Brushing	Automatic cleaning of the printing form
Engraving status display	Display of the remaining engraving time

* Depends on system design.
Subject to design modifications. Errors excepted.

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