HelioKlischograph K6
THE AUTOMATIC ENGRAVER
The ultra-modern HelioKlischograph K6 is fully automated and represents the benchmark for engraving in publication printing.
K6 – ensuring quality every time
By professionals for professionals

The HelioKlischograph K6 is the undisputed benchmark for engraving in publication gravure. This fully automated machine delivers optimum cost-effectiveness and quality.

The HelioKlischograph K6 represents a new generation of digital cylinder manufacture and is a response to the growing demands of the gravure industry. The K6 satisfies all these demands – whether as a one-touch semi-automated unit or a fully automated process-controlled system.

The fully automated K6 ensures cutting-edge publication engraving, top quality and commercially successful production through flexible, efficient and economical cylinder manufacture. The K6 is the logical successor to the globally successful K406 and combines the tried-and-tested components of its predecessor with a whole host of innovative functions, making it the ultimate in state-of-the-art automation.

The K6 engraves with Cell-Guard III. The cell distribution percentages illustrated in the graphic provide proof of the optimum ribbon balance achieved with CellGuard III.

A success story with a future
Over 50 units have been delivered since the market launch of the K6 in 2000, and the trend is still upwards. The tried-and-tested reliability and efficiency of electromechanical engraving combined with a steady flow of new technologies and innovative solutions remains unrivaled.

Precision and reliability
With up to 18 channels, the K6 offers ultra-fast printing form manufacture with absolute ribbon balance. It can produce up to 144 perfectly engraved pages with the added certainty of not having to factor in any time-consuming repeats.

Speed and flexibility
The gravure industry keeps pushing for ever shorter intervals between editorial deadlines and the point the presses start rolling. Used in conjunction with the HelioFlow workflow, the K6 starts engraving just two minutes after the final PDF pages are supplied. No other system can match it for speed and flexibility.

An automation professional
The K6 is particularly cost-effective when integrated into the fully automated AutoCon production line. All the components required to successfully support complete production line automation are supplied as standard with the machine.
Automation as standard
All the functions at a glance

Flexible bearing blocks
The bearing blocks of the K6 are moved along a central axis of symmetry to accommodate various cylinder lengths. The cylinders can thus simply be placed with the guide ring on the open bearing shells. An automatic feature for switching the bearing shells to up to four customized guide ring diameters is integrated as standard into the bearings blocks.

Motorized drive block
The drive block moves mechanically to load and unload the cylinder from the crane’s working area. The pneumatic power chuck configuration can be customized for up to three different journal diameters.

Engraving supports in exactly the right position
The axial and radial adjustment of the engraving supports to a particular engraving format is fully automatic. The software helps to achieve perfect values, thereby enabling the K6 to be used with other members of the HelioKlischograph family.

Industry-standard programmable controller
Integrated status and diagnostic displays can be recorded directly or indirectly by modem using a state-of-the-art programmable control system. All the key operating status data (mains voltages, temperatures, etc.) is monitored on a permanent basis.

Closed for safety
All movements of the fully automated system take place under a closed hood. In addition to the safety aspect, this also significantly reduces the amount of noise produced by the machine.

CellGuard III – top engraving quality and quality assurance
The CellGuard III camera plays a key role in the K6. Calibrating the engraving systems based on cell volume automatically ensures a perfect ribbon balance. At the end of production engraving, GravurCheck checks and documents the qualities achieved. All the results can be printed out in the form of a certificate.
SprintEasy – shorter makeready times and longer stylus service lives
SprintEasy shortens makeready times and downtimes on the K6. After a stylus change, engraving heads are adjusted outside the engraving machine and are immediately ready for production. SprintEasy also measures and stores the actual cutting angles of the styluses fitted on the engraving system. Even where print products are subject to the toughest quality requirements, new and used styluses can be combined on a single machine without any problem. These factors significantly enhance the stylus service lives.

HelioSprint – top quality for all printing materials
Only HelioSprint engraving systems are used in the K6. Over 2000 of these tried-and-tested systems have been installed to date. HelioSprint systems boast accurate reproduction of soft vignettes, natural skin tones, high-contrast image contents and razor-sharp lines.

Basic data

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<th>K6 XS</th>
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| Basic unit | L  5920 mm  
W  2150 mm  
H  1800 mm | L  7020 mm  
W  2150 mm  
H  1800 mm | L  8120 mm  
W  2150 mm  
H  1800 mm |
| Space needed | L  8453 mm  
W  3950 mm | L  9553 mm  
W  3950 mm | L  10653 mm  
W  3950 mm |
| Weight | approx. 11850 kg | approx. 13350 kg | approx. 16500 kg |

Power supply
3P-N-PE, 4000 V, 50 / 60 Hz

Current consumption
10 kVA

Compressed air
6 bar water-/oil-free

Network
100 Mbit Fast Ethernet

Remote maintenance
• VPN via network  
(provided by customer)  
• SDN or analog modem
K6 and HelioFlow
Flexible workflow for smooth processes

Automated JDF and PDF workflow
HelioFlow ensures a quick and smooth engraving process based on an automated JDF and PDF workflow.

Clear and reproducible processes

Automated workflow HelioFlow offers a workflow with unique flexibility. Individual pages can be modified or replaced even immediately prior to the start of engraving. After production has started, the K6 reports all details on the status and quality of the relevant job to the StatusManager database, thereby providing valuable information for quality control and actual costing. There is also an automatic quality monitoring function, including a warning function in the event of irregularities.

High Quality Hinting (HQH)
HQH is an innovative software solution that produces perfect print results. It is part of the page workflow and automatically recognizes and optimizes critical areas. For example, web shrinkage can be compensated, thereby significantly enhancing the quality of fine negative lines and texts.
Complete process control
Integration into the fully automated AutoCon production line

Key components – everything from a single source
The K6 can be integrated as standard into the fully automated AutoCon production line developed jointly by HELL Gravure Systems, K. Walter and Bauer-Logistik-Systeme. The solutions for fully automated production lines are always customized and include tailored planning and implementation. An AutoCon project management team with central responsibility is in charge of professional processing of complex jobs.

The K6 is extremely cost-effective as part of a fully automated production line. The FormManager gives the process control computer access to all engraving jobs. The computer coordinates the crane system and the HelioKlischograph K6 machines. The crane delivers and removes cylinders smoothly, thereby ensuring excellent engraver productivity.

Customized solutions for fully automated production

above: The K6 in the automated AutoCon production line – the most cost-effective solution for gravure form manufacture.

left: In 2007, the AutoCon automated production line received the ERA (European Rotogravure Association) innovation award.
Based on Innovation. HELL
HELL solutions satisfy the toughest demands in terms of print quality, cylinder service life and printing speeds. Printing forms engraved using HELL equipment benefit from simplified color matching, minimal start-up waste and optimum engraving results with high print densities, soft vignettes, brilliant contones and razor-sharp lines.

Your local HELL representative will be happy to provide further information and personal advice on our products and services at any time. For contact addresses and additional product information, see our website www.HELL-Gravure-Systems.com