

HelioSprint

HELL
Gravure Systems

***The new Engraving Head
for HelioKlischographs***

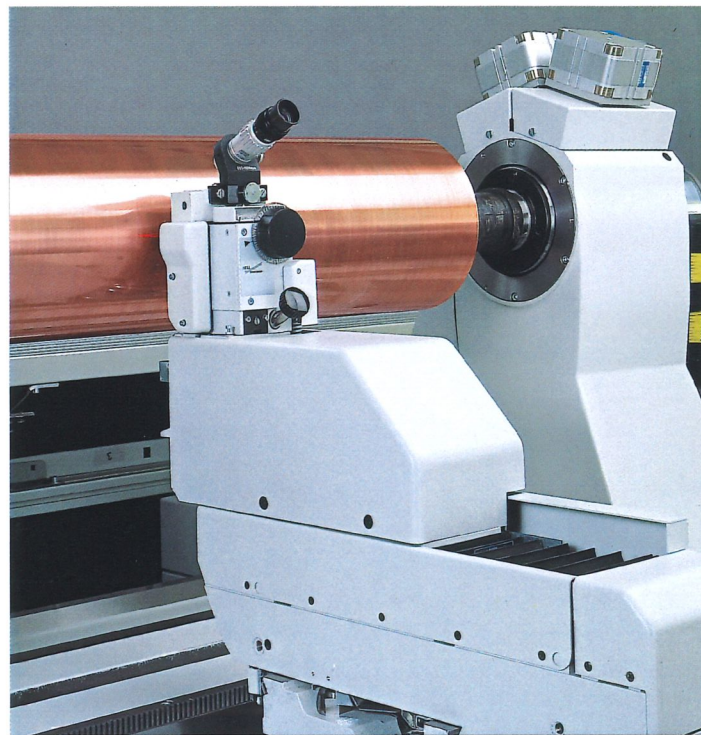
- Double Engraving Speed
- More Cell Volume
- Greater Printing Density



Progress for Engraving

HelioSprint Enhanced Engraving Performance

Maximum Engraving Speed



The engraving head HelioSprint engraves with double the speed and excellent quality.

Concept

HelioSprint is a new engraving head for electromechanical engraving with HelioKlischographs. It can be used for both packaging and decorative printing and can also be employed on multichannel engravers for publication applications. The high engraving frequency can greatly increase the HelioKlischograph's capacity.

The technology is based on a concept which has been used successfully for many years worldwide, namely electromechanical engraving with diamond styli.

Special extensions not only enable HelioSprint to engrave faster, but also to produce improved cells which have a higher volume and, consequently, deliver enhanced printing results.

HelioSprint can be used on all HelioKlischographs equipped with the K405/6 electronics. Earlier standard engraving heads will naturally still be supported.

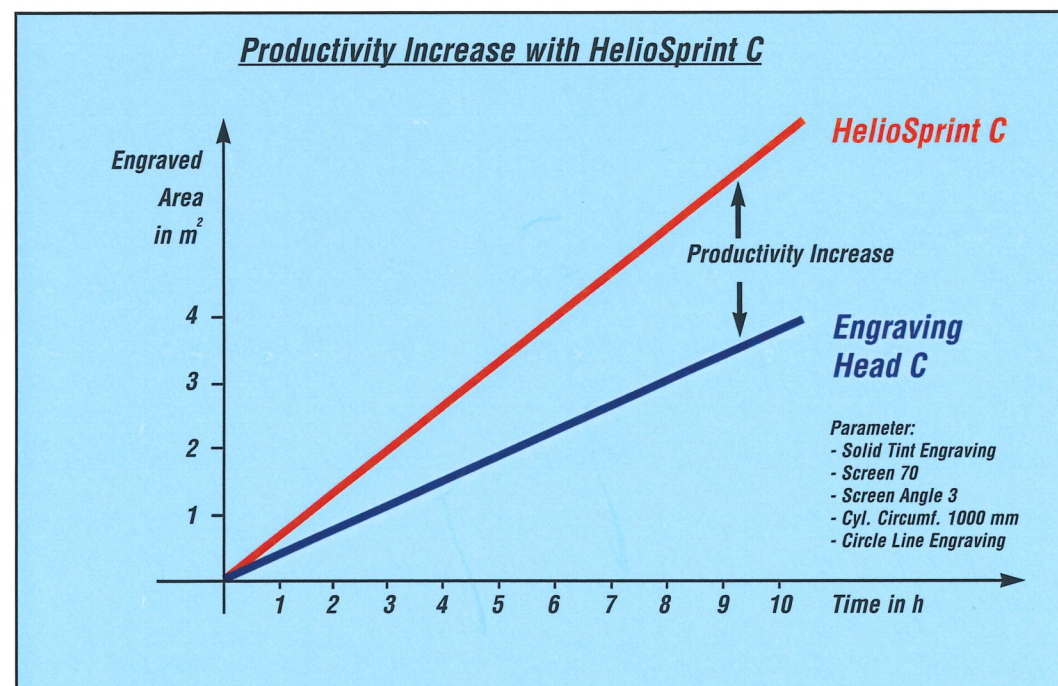
HelioSprint:
Your Guarantee
for Quality + Performance

Productivity increased by up to 80 %

The HelioSprint engraving head allows you to greatly reduce cylinder engraving times and thus boost the capacity of your HelioKlischograph. When performing fine-screen engraving on a cylinder of 1000 mm circumference, for example, this solution can increase productivity by up to 80%.

Engraving can be further accelerated by employing fast crossfeed over areas where no engraving is required.

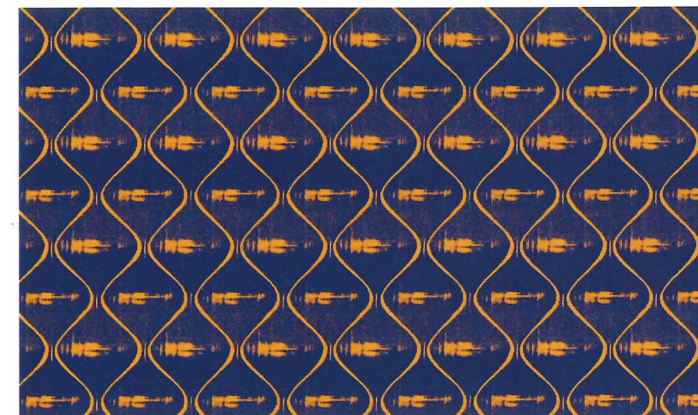
HelioSprint:
More Cylinder
in the same Time



With the engraving head HelioSprint C the engraving capacity of a HelioKlischograph can be extremely increased compared to the common engraving systems

HelioSprint Optimum Cell Quality

Maximum Ink Volume



HelioSprint engraves excellent cells such as those shown here (screen 70, angle 3, solid tint)

Engraving sharp Edges

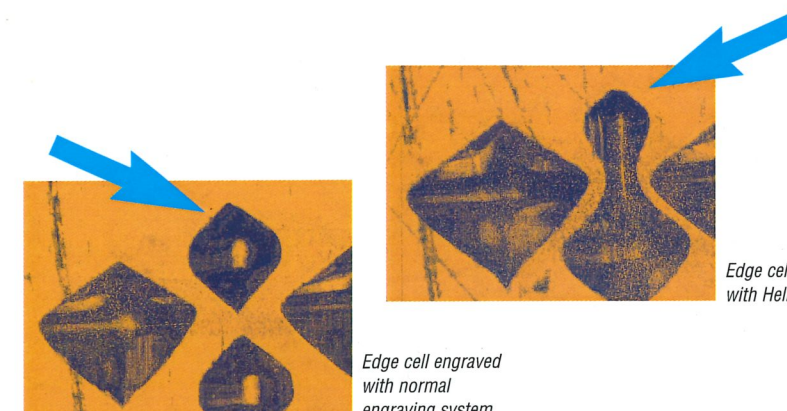
For situations where particularly sharp transitions are required between the engraved and unengraved areas, e.g. with fine fonts or diagonally engraved lines HelioSprint offers brilliant quality. The edge cells being engraved in asymmetrical form and the channel to the previous cell lead to sharper edges.

The print result opens up new areas of application for gravure printing which were previously the reserve of offset.

Perfect Symmetry

The cells engraved with HelioSprint exhibit optimum symmetry and depth. The special construction of the HelioSprint engraving head means that the data to be engraved is transferred to the cylinder with optimum results.

HelioSprint:
Perfect Cells -
Every one the same



Edge cell engraved with HelioSprint.

Edge cell engraved with normal engraving system.

Optimum Print Density

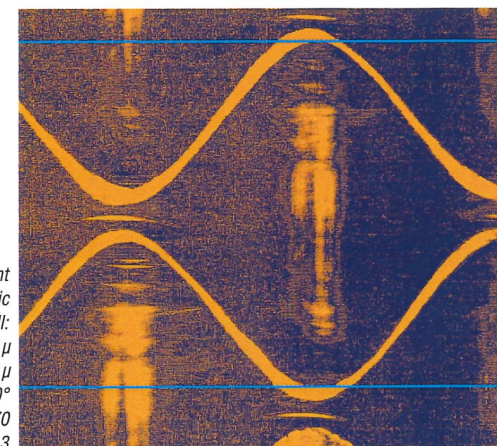
The cells engraved with HelioSprint will meet your every need. Whether you are working with solid or light tones or with line or image data, the perfectly coordinated ratios of cross diagonals, surface area, channel and depth ensure that cells engraved with HelioSprint exhibit excellent ink transfer characteristics to deliver top quality print results.

Patented Angle Combinations

Engraving with HelioSprint is based on the tried-and-tested solution of combining various screen angles. This ensures the required quality in the composite print and suppresses any moiré.

Screen Angle Combination:
Patented Know-how
for optimum Print Results

The measuring instrument shows the characteristic curves of a solid tint cell:
Cross-diagonal: 198 µ
Channel: 20 µ
Stylus: 130°
Screen: 70
Angle: 3



HelioSprint:
More Volume for
greater Print Density

HelioSprint Full Compatibility

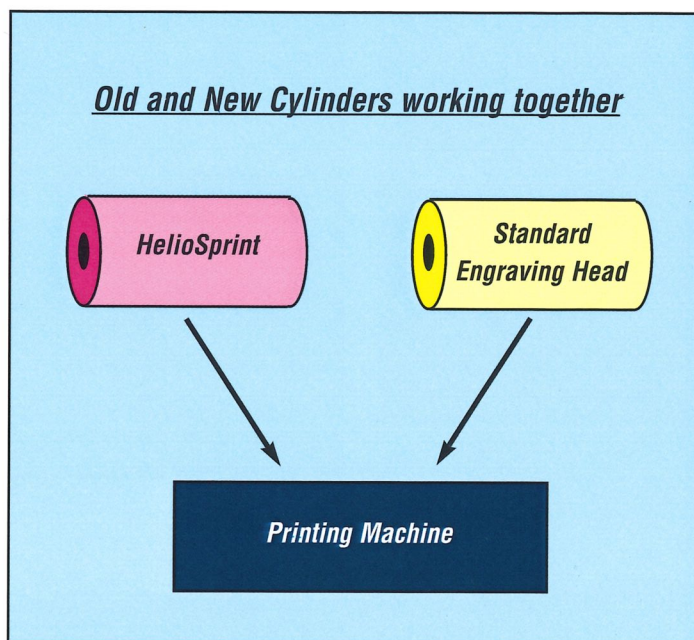
HELL
Gravure Systems

Old and New Cylinders working together

Cylinders engraved with HelioSprint are fully compatible with cylinders engraved by standard engraving heads and can be processed together in the printing machine.

This is particularly important for packaging and decorative printing jobs, since, with follow-up jobs, you will often only need to change the cylinder for a single ink.

HelioSprint:
Flexibility for Follow-up Jobs



HelioSprint Highlights at a Glance:

- **Greater Throughput** thanks to twice the Engraving Speed
- **Optimum Cell Geometry**
- **Larger Cell Volume**
- **Constant Walls** between the cells
- **Improved Print Quality** by automatically moving the Edge Cells into the engraved area
- **Stable Engraving** through a tried-and-proven process with improved damping and constant vibration
- **Improved Control** of engraving by integrating the latest processor technology
- **Modular Design** ensures easy exchange of the engraving head
- **Upgrading** of existing engraving supports
- **Flexible Production** through continued use of existing engraving heads
- **Composite Print** using cylinders engraved with standard engraving heads
- **Technical data:**
Screens (Typ „C“): 60 - 100 l/cm
Screen angles: 0, 1, 2, 3, 4
- **Technical preconditions** for HelioSprint operation:
New Helio electronic K405/6

HelioSprint:
Perfect and consistent Engraving at twice the Speed

We are here to help

Should you require any further information on our products, please do not hesitate to contact us. Our experts look forward to discussing your needs in detail.

Germany

HELL Gravure Systems GmbH
24107 Kiel, Siemenswall
Tel. + 49 (431) 386 1441
Fax: + 49 (431) 386 1235

USA

HELL Gravure Systems
2185 Highway 292
Inman, South Carolina 29349
Tel. (864) 472 1882
Fax: (864) 472 6604

Malaysia

HELL Gravure Systems
Unit AG 12, PJ Industrial Park
Jalan Kemajuan,
46200 Petaling Jaya
Selangor Darul Ehsan
Tel. + 60 3 758 60 12
Fax: + 60 3 758 61 14

We also have representatives in many other countries of the world. Please ask for details of your local agent.