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HOT STAMPING SYSTEMS

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Electronic system Johannisberg Cavomit Holo@Cylinder 73X104



Cavomit Holo@Cylinder 73X104

The **Holo@Cylinder** system is manufactured at the factory of **CAVOMIT** company with standard 2 foil-pull cylinders (upgradable to 4) and is mounted on machines of type **Heidelberg & Johannisberg Letterpress** with dimensions ranging from 46X58.5 - 73X104.

The Johannisberg Letterpress machine is fully reconditioned and maintained with new spare parts guaranteed by **CAVOMIT**. This new generation of hot-stamping machines has a big advantage. It is **1.5m** shorter than previous models and therefore can be placed easier in small premises.



Control system

The system is operated through a laptop with **Windows** software offering following advantages:

1. Better programming of the machine.
2. INTERNET connection.

Foil-pull control

A laptop for programming the stepper motor which controls the foil-pull units. Two to four DRV can be added to the foil-pull units.

Ease of service.

Adjustable speed of foil-pull stepper motors.

Visible and functional data inserted through keyboard.

Ergonomic, operator-friendly layout.

Touch panel for easy programming.

Operation manual in English. Available in other languages upon request.

Conventional foil

Practically unlimited number of combinations of short/long foil-pull repeat cycles for multi-die printing applications.



Operation switches:

Machine speed control.
 Automatic / Manual operation.
 Machine **START** button.
 Machine **STOP** button.
EMERGENCY STOP

Hot-plate



Unique combination of hot-plate/honeycomb fitted in chase. Single-pieced hot plate, 16mm thickness, max area coverage made of high conductivity light alloy. Temperature insulated from machine body for increased energy savings and optimal heat allocation. Moreover, auxiliary materials can be placed underneath the hot-plate in order to achieve simultaneously hot-stamping and embossing.

Required precision of printing temperature is acquired through **18** parallel resistances in **6** independent temperature control zones unevenly allocated and controlled by an electronic card embodied on a PLC.



Foil-pull cylinders

Two (2) standard, full-width foil-pull cylinders. Immediate upgrade to max four (4) foil-pulls with the addition of one or two independent hot-stamping stations. Electronically controlled robust stepper motor with adjustable foil-pull speed.

Pull step accuracy: 0.01mm

Foil rewinding

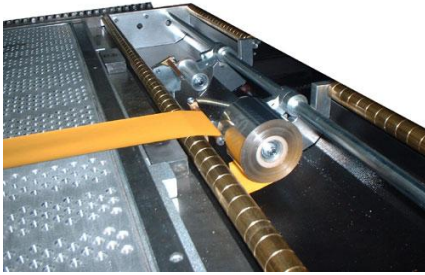
All foil-pull cylinders are synchronized to the stepper motors. The external diameter of the used foil is up to **140 mm** on 1" core.

Adjustable tension control.

Quick-lock spools for fast and easy change of cores.



Foil feed



From single or twin parallel axes.
Internal foil feed allows the placement of rolls with **90mm** external diameter across total feeding width of the machine.

Internal core diameter is 25 mm.

Min. distance of **2 mm** between two rolls on the same axis.

Adjustable foil-feed tension.

Minimum downtime during job changes.

Special foil feeding system for registered holograms.

Hologram registration

Powerful, specially developed and flexible software for hologram registration. Suitable for multiple printing of unevenly spaced images on each foil-pull cylinder.

Simultaneous printing of plain and holographic foil on different foil-pull cylinders.

No reduction of printing speed.

Uninterrupted operation.

Hologram registration with multi-axial system outside the hot plate.

Image registration tolerance $\pm 0.5\text{mm}$.

Photoelectric sensor with automatic sensitivity adjustment.

Specially developed powerful software.

Multiple-die variations, unevenly spaced images, fine adjustments during operation.



Technical specifications
Johannisberg Cavomit Holo@Cylinder 73X104

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| 1. Paper parameters | |
| Paper size max | 73 X 104 cm |
| Paper size min | 35 X 50 cm |
| Paper sheet thickness | 1 mm |
| Feeder pile height | 500 mm |
| Delivery pile height | 650 mm |
| Max. blocking area | 690 X 990 mm |
| Gripper margin | 8 - 10 mm |
| Packing thickness | 1.5 mm |
| 2. Operation control parameters | |
| Control system | Laptop with Windows software |
| Foil-pulls & programs | Standard 2 - upgradable to 4 |
| Pull step accuracy | 0.01 mm |
| Programming per pull cylinder | 1-999 short pulls, 1 long pull 0-999 mm |
| Foil-pull speed adjustment | By inverter |
| Foil-pull cylinders | 2 stepper motors (maximum 4) |
| Foil rewind units | 2-4 synchronized to stepper motors |
| Counters | 3 electronic, 1 mechanical |
| 3. Foil parameters | |
| Foil roll width max | 1000 mm |
| min | 15 mm |
| On upgrade foil pull stations | 150 / 300 mm |
| Distance between rolls (min) | 2 mm on same bar axis |
| Roll core diameter | 16 or 25 mm on same bar axis |
| External diameter of foil roll feed | 90 mm on 16 mm or 25 mm core |
| External diameter of used foil | 140 mm on 25 mm core |
| 4. Printing parameters | |
| Blocking speed | Electronically controlled, 800-2500 sheets per hour |
| Auto - stop guarding | Instant halt and full speed resumption |
| Alternative uses | Cutting, creasing, embossing, punching |
| 5. Hot plate parameters | |
| Hot plate | Single-piece, honeycomb hot plate |
| Heating zones | 6 for optimal temperature allocation |
| Temperature regulation | Through laptop with Windows software |
| Resistances | Parallel 12 X 600 W and 18 X 700 W |
| Printing die height | 6.35 and 7.00 mm |
| Die mounting on hot plate | With micrometric adjustable mounts |
| 6. Hologram registration parameters | |
| Hologram registration | Outside hot plate on multi-axial system |
| Printing accuracy | +/- 0.3 mm (per image), +/- 0.1 mm (per stripe) |
| Printing speed | As for standard foil |
| Roll width | Standard max 60 mm (other dimensions optional) |
| Min distance of adjacent hologram rolls | 40 mm edge-to-edge of foil |
| Photoelectric switch | Fast response, adjustable sensitivity |
| Optical fibre | Mounted at pre-set viewing angle |
| Software | Specially developed in-house by Cavomit |
| 7. Physical parameters | |
| Length | 5800 mm |
| Width | 2600 mm |
| Height | 2200 mm |
| Weight | 10500 kg |
| Export packing | As desired by the customer |
| Motor type | AC 230/460, 50/60 Hz, 13 HP |
| Total connection capacity | 26 kW |
| Voltage | 380/460V, 50 Hz |