

*Laser engraved printing wheels are employed for ink printing using the gravure method. The rollers are supplied with printing ink either by immersion or by an ink pump system.*

*After removal of any surplus, the ink remains in the etching in the shape of the lettering, which is then transferred to the cable by a soft intermediate rubber roller that makes it possible to achieve good printing quality on an uneven surface. The term "offset" is usually used to describe this indirect gravure printing process, although it is technically incorrect.*

**Offset markers from  
Medek & Schörner:  
European engineering at its best.  
Made in Austria.**



Offset markers from Medek & Schörner are precision-engineered for high performance, optimum flexibility, and day-to-day reliability. They are the ideal choice for printing plastic tubing, hoses, and cable jackets at speeds between 10 and 600 m/minute. Four different machines are available, ranging from a simple, rugged universal marker for offset and flexo printing at low speeds to the top-of-the-line medium-speed printer with selectable legends.

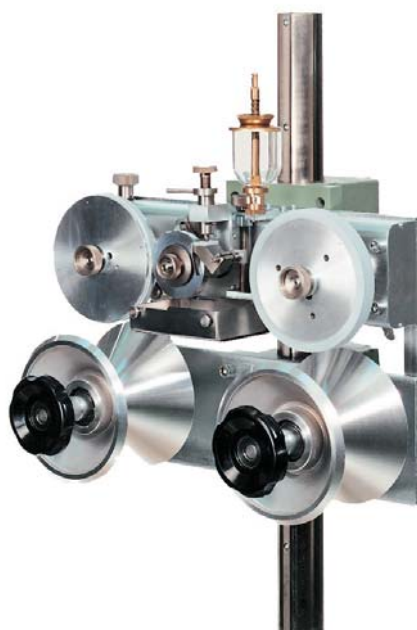
The high-performance offset markers all use a standard precision drive which is electronically synchronized to the extrusion line. The other models are available with various optional electrical drives which can even be retrofitted later on.

All Medek & Schörner offset markers can be expanded with a number of Options and thus provide optimum flexibility. Their unequaled build quality ensures both exceptional reliability and long service life for each machine.

Our distribution network provides expert consulting and service support throughout the world.



## Universal Marker US 10-R



General-purpose offset printing system for cold plastic tubing and hoses as well as plastic insulated cables including products with irregular surfaces.

### Features

- Offset printing machine with laser engraved steel printing disc and rubber faced transfer roll.
- Also suited for flexo printing using rubber plates (available separately).
- Printing discs driven by product being marked.
- Available on request with auxiliary drive for marking delicate product or products of small diameters or with slippery surfaces (see Options).
- Available on request with electronically synchronized drive (see Options).

### Applications

- Marking within the extrusion line, downstream from cooling bath and drying fan
- Marking in a separate operation

### Specifications

- Max. marking speed: 150 m/minute
- Product diameter: 8 to 250 mm (standard) up to 400 mm (special version)
- Max. spacing of marks: 500 mm  
Max. character size: 18 mm (standard)  
40 mm (special printing discs)

### Standard-Configuration

- Frame with support column and crank-operated height adjustment mechanism.
- Marking unit with one marking station, guide rollers, and drive wheel.
- Complete marking station with ink tank, solvent feed unit, printing disc shaft, and rubber faced transfer roll.
- Complete accessories kit without printing discs.

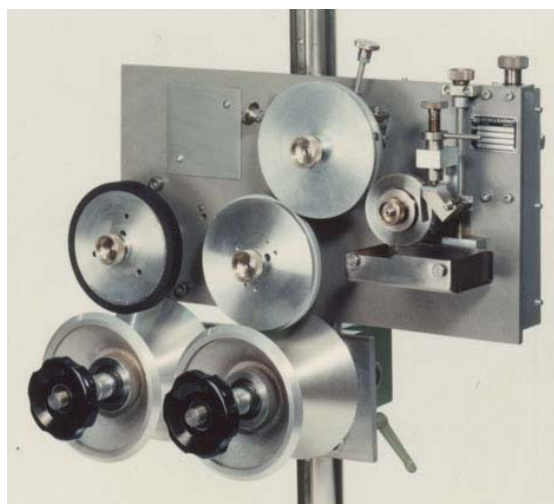
### Recommended Options

- DM, SGM electrical drives

### Special Versions

- 2 x US 10 for double-sided top or bottom printing.
- US 10-T with two synchronized marking stations for extra-long legends.

## Offset Flexo Marker OFD



Flexographic printer for marking continuously extruded cables, tubing, or sections.

### Features

- Printing disc with receptacles for easily interchangeable, plug-in rubber plates.
- Indirect printing using a rubber faced transfer roll for reduced plate wear and improved printing quality.
- Printing disc and transfer roll driven by product being marked.
- Available on request with auxiliary drive for marking delicate product or products of small diameters or with slippery surfaces (see Options).

### Applications

- Marking of cables, tubing, or sections within the extrusion line, downstream from the cooling bath and drying fan
- Marking in a separate operation

### Specifications

- Max. marking speed: approx. 150 m/minute
- Product diameter: 8 to 250 mm (standard) up to 400 mm (special version)
- Max. spacing of marks: 500 mm

### Standard-Configuration

- Frame with support column and crank-operated height adjustment mechanism.
- Marking system with ink tank; etched inking roller for feeding ink to the rubber plates; printing disc, transfer roll, and drive wheel.
- Guide rollers for product up to 250 mm in diameter.

### Recommended Options

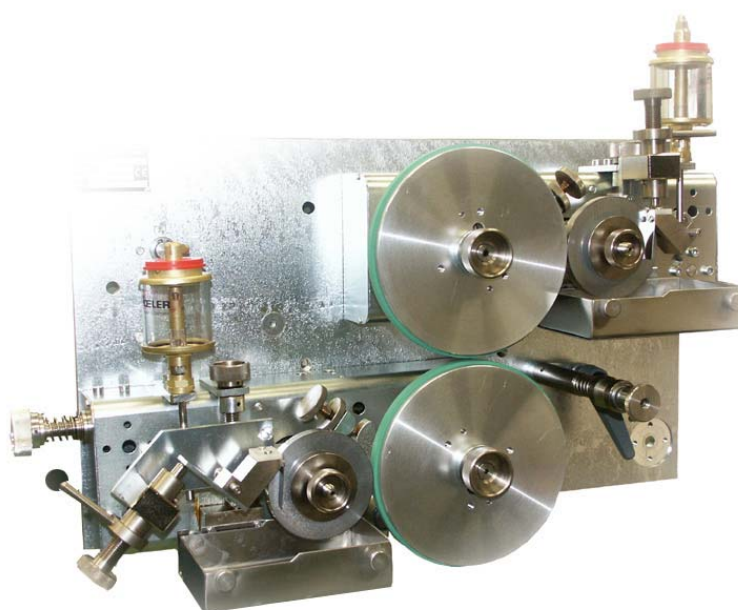
- DM, SGM electrical drives



### Special Versions

- Machine for bottom printing.
- Machine with guide rollers for products larger than 250 mm in diameter.
- Machine with guide rollers for marking hexagonal, square, and flat sections.

## Dual-Offset-Printing Head DOK 1



Marking system for double-sided offset printing of cable insulation with synchronized, phase-adjustable printing wheels

### Features

- Offset printing system using laser engraved printing discs and rubber faced transfer rolls.
- Transfer rolls synchronized and phase-adjustable during operation for ring marking or spiral stripping
- Easy to set up and operate.
- Printing discs and transfer rolls driven by product being marked.
- Available on request with auxiliary drive for marking delicate product or products of small diameters or with slippery surfaces (see Options).
- Two DOK 1 printing heads can be coupled for two-color marking.

### Applications

- Double-sided offset printing in the extrusion line
- Double-sided offset printing on a separate operation

### Specifications

- Max. marking speed: approx. 100 m/minute
- Product diameter: 1 to 10 mm
- Printing disc diameter: 80 mm

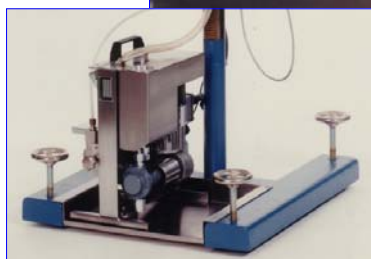
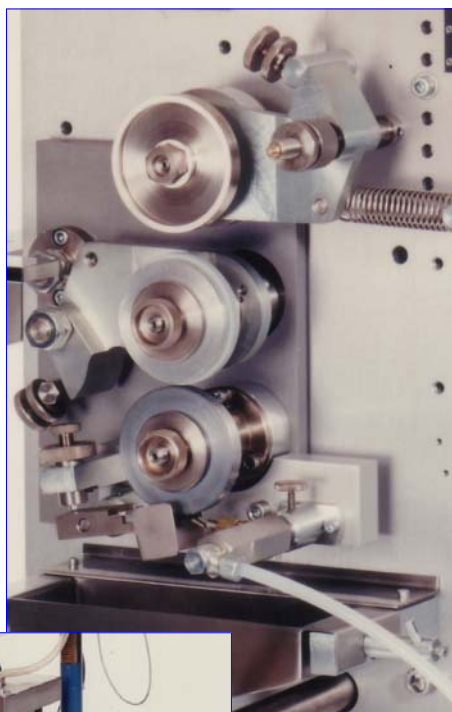
### Recommended Options

- DM, SGM electrical drives

### Standard Versions

- DOK 1 V for vertical printing
- DOK 1 H for horizontal printing

## Highspeed Offset Marker



### SOD 10 C-FM

Offset marker for printing cables or insulated wires for line speeds up to 600 m/min

Replaceable ink supply module with ink tank, pump, cooler, filters, and ink flow fine adjustment valve.



#### Applications

- Marking within the extrusion line, downstream from the cooling bath
- Marking in a separate rewind line

#### Specifications

- Marking speed: 10 to 600 m/minute
- Product diameter: approx. 22 mm
- Printing discs: diameter: 80 mm center hole dia.: 16 mm

#### Standard Configuration

- Frame with support column and height adjustment crank mechanism.
- Marking unit with synchronized drive for the printing wheel.
- Replaceable ink supply module with ink tank, pump, cooler, filters, and ink flow fine adjustment valve.
- 1 set of ink wiper, rubber reprint wheel and guide roller.

#### Features

- Offset printing machine using laser engraved printing disc and rubber faced transfer roll.
- Rugged, virtually maintenance-free, electronically synchronized printing disc drive.
- Automatically synchronized stroboscope (optional) of extremely high light efficiency allows proper inspection even at slow marking speeds.
- Integrated control electronics.
- Replaceable ink supply module for quick color change within about 2 minutes. Easy to operate, clean, and maintain.



#### Special Version SOD 10-C

integrated ink supply system with diaphragm pump and ink suction pipe for use with original containers. Suitable for water based inks.

## Options for Offset Markers

### ***Electrical auxiliary drive. Option DM***

An electric motor provides a constant, adjustable pushing or braking torque independently of the marking speed. This reduces the strain on the product and ensures perfect synchronization even for small product diameters.

Recommended for machines used for marking products of low mechanical strength.



### ***Electronically synchronized marking system drive. Option SGM***

A remote tacho generator supplies a control signal for synchronizing the printing wheels to the product. The power supply and control electronics are housed in a separate control cabinet.

### ***Replaceable ink supply module with ink tank, pump, cooler, filters, and ink flow fine adjustment and selector valves. Option FM (for SOD 10 C-FM)***

Allows the printing ink to be changed in about 2 minutes.

Ink can be stored in the ink tank for several weeks with no degradation of ink properties.



## Accessories for Offset Markers

### **Printing discs**

Printing discs are available with any desired code (numerals, legends, other combinations). Please specify when ordering.

Standard size: 80 mm in diameter, with 16-mm central hole.



### **Inking Rollers**

Etched rollers for inking the rubber plates of flexographic machines.



### **Rubber Plates**

Plug-in plates for easy legend assembly on flexographic machines. Individual letters and custom type plates are available.



### **Ink Wipers**

Polyamide wipers for printing discs or inking rollers. Several ink wipers are supplied with each flexographic marker. However, we recommend to keep several replacement ink wipers for each printing disc and inking roller used.



### **Rubber Transfer Rings**

Rings made of optimum-grade rubber are available for many applications.

Standard sizes for US 10-R, OFD, and DOK 1:

160 dia. mm x 8 mm (6 mm)

Standard sizes for SOD 10:

80 dia. mm x 6 mm

### **Recommended Inks:**

M&S offset markers can be used with all commercial solvents and inks with a viscosity of approx. 50 to 150 seconds (as measured with a DIN 4-mm measurement cup).

Use inks containing low to medium volatility solvents only, in order to prevent premature pigment caking on the printing wheels.