

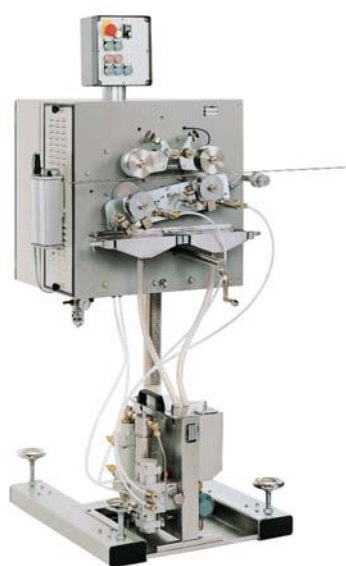
## HIGH-PERFORMANCE GRAVURE PRINTING MACHINE WITH TANDEM PRINTING STATION FOR MARKING HOT CABLE INSULATION

- Marking of text and numbers
- Tandem Printing Head
- Quick Change of Legend
- Print Wheel Drive up to and above 1200m/min
- Exchangeable Ink Supply System

### KS 442 C-FM

#### APPLICATIONS

Marking cable with quick code and color change possibility within the extrusion line.



#### SPECIFICATIONS

Max. printing speed:  
1200 m/minute  
Cable diameter: 1 mm to 24mm  
(up to 80 mm with option G)  
Printing discs:  
86 mm in diameter, flat or concave rim

#### STANDARD CONFIGURATION

Tandem marking unit with synchronized drive.  
Integrated pneumatic printing station selector.  
Integrated control electronics with additional input for automatic switching via external contact closure.  
1 set of dedicated ink wipers and guide rollers matching the specified printing discs.  
Replaceable ink supply module with ink tank, pump, cooler, filters, and ink flow fine adjustment valve.  
Frame with support column and height adjustment crank mechanism.  
Complete accessories kit.  
without printing discs.



#### FEATURES

Rugged, virtually maintenance-free AC drive.  
Electronically synchronized printing disc drive.  
Incremental tachometer and reference sensor mounted on the printing disc shaft provide exceptionally accurate synchronization.  
Automatically synchronized stroboscope of extremely high light efficiency allows proper inspection even at slow marking speeds.  
Quick switching between two different codes with no loss of marks.  
Replaceable ink supply module for quick color change within about 2 minutes.  
Optional second ink supply module allows quick color change.  
Flat or concave printing discs matching the cable diameter.  
Intelligent ink pump system IP for automatic and speed dependent adjustment of the ink flow.



#### RECOMMENDABLE OPTIONAL DEVICE:

WNB - Mistung unit for the application of fine water dust for pre-cooling of the hot wire immediately after the extruder. Applies a fine water layer to the wire surface that evaporates before the wire enters the printer. Reduces the wire surface temperature and avoids the hot plastic material sticking on the print wheel. Replaces pre-cooling trough, air wipers and vacuum device. No need of relatively extensive and at higher speeds insufficiently working air blowers. - see leaflet WNB

## Options and Accessories

### Stroboscope. Option B

Automatically synchronized flashing stroboscope for monitoring the quality of printed marks. High quality finish with tight and resistant to solvent metal casing.



Medek & Schörner also offers a **video system for monitoring the print quality** of fast-running cable printing machines, e.g. allowing real-time inspection for bad quality and/or missing prints.

See leaflet VQS/VST

### Replaceable ink supply module. Option FM

With ink tank, pump, cooler, filters, and ink flow fine adjustment and selector valves. 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.

### Automatic viscosity control for printing inks – Option V

A rotating sensor causes thinner to be added when the viscosity deviates from a preset value.

### Ink level sensor and indicator system – Option LD

Triggers a warning signal as the ink level drops below minimum.

### Ink flow sensor and indicator system – Option FW

Triggers a warning signal as the ink flow deviates by an adjustable amount from the preset value.

### Ink Supply Module Service Rack

Castor mounted rack with power supply and compressed-air input for one Ink Supply Module. For easy rinsing, cleaning, and changing of inks away from the marking machine.



### Printing Discs

Printing discs are available with any combination of numbers, letters, or other characters (specify when ordering).

All printing discs are 86 mm in diameter, with a 12.7-mm (1/2") center hole.

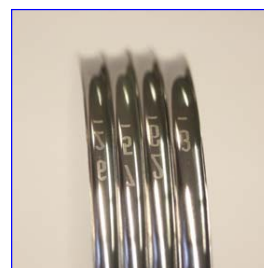
### Ink Wipers, Guide Rollers

The ink wipers and guide rollers required for the specified printing discs are supplied with each KS Series marker. For marking cables of different diameters, you will need one set of appropriate ink wipers and guide rollers for each cable gauge. We recommend to order these along with the printing discs.

### Doctor Blades

New machines or ink wipers are supplied with a set of doctor blades of the appropriate size.

However, we recommend to keep several replacement doctor blades for each type of printing disc in use. Doctor blades can be sharpened several times.



### Marking Inks

We recommend inks of a viscosity of approx. 40 to 70 seconds (as measured with a DIN 4-mm measurement cup) containing low to medium volatility solvents to prevent premature pigment sedimentation on the printing discs.