

Special-purpose machines

A number of highly specialized precision coding machines are also available, handling all the applications for which conventional equipment is not optimally suited.

Example of such a special-purpose machine:

A marking machine for embossed or indented stamping of insulated cables up to about 15 mm in diameter on one or both sides at extremely high speeds immediately after the extruder. The embossing wheels are mounted on water cooled shafts so that the insulating material does not stick to them, ensuring that perfect marking can be achieved at extrusion speeds of up to about 1,000 m/min.

Marking Machines from Medek & Schörner: European engineering at its best. Made in Austria.

Medek & Schörner manufactures a line of highly specialized precision marking machines to cover those applications where conventional markers may not be the optimal choice.

Medek & Schörner Special Markers start with simple machines for inkless indent marking or embossing of plastic cable jackets and sections.

A line of remote controllable spray markers allow various combinations of defect location marking; solid or dashed longitudinal striping.

All Special Markers from Medek & Schörner share the proverbial ruggedness, precision engineering, excellent workmanship, and mature technologies that result from decades of experience in manufacturing cable marking machines.

Each machine can be custom configured to meet the requirements of your specific application and thus ensures perfect marking quality.

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



Indenting/Embossing Markers



KSW

Indent marking or embossing for high line speeds up to 1000 m/min



Features

- Marking machine for insulated cables.
- **Indent marking or embossing.**
- **Single or double-sided marking.**
- Marking wheels mounted on water cooled shafts to prevent insulation from sticking to marking wheels and ensure perfect marking at extrusion line speeds of up to approx. 1000 m/minute.
- Height of each marking wheel adjustable separately.

Application

- Indent marking or embossing of cables **up to 15 mm in diameter** immediately after the extruder head

Standard Configuration

- Frame with support column and crank-operated height adjustment mechanism.
- Marking head with cooling trough.
- Marking wheels and guide rollers available separately. (Specify when ordering.)

Accessories

- Marking wheels
- Pressure rolls

Specifications

- Max. marking speed:
- 1000 m/minute
- Product diameter:
- 1.5 to 15 mm
- Marking wheels:
- 86 mm in dia.



Ident Cable Markers

ICS

Marking machine for double-sided inkless indent marking of hot cable insulation at speeds of up to 100 m/minute.



Features

- Marks cables 6 to 100 mm in diameter.
- Indent marking by engraved, concave marking wheels matching the cable diameter.
- Marking wheels mounted on toe bearings on two horizontally and vertically adjustable swivel arms.
- Hose connection for marking wheel cooling system which prevents hot insulation material from sticking to the marking wheel type area.

Standard Configuration

- Frame with support column and crank-operated height adjustment mechanism.
- Marking head with cooling water connection.
- Marking wheels and guide rollers available separately. (Specify when ordering.)

Application

- Indent marking of **cables 6 to 100 mm in diameter** immediately after the extruder head

Specifications

- Max. marking speed: 100 m/minute
- Product diameter: 6 to 100 mm
- Marking wheels: 121 mm in dia. (groove bottom)



Accessories

- Marking wheels
- Guide rollers

Ink spray Marker



SPA

Non-contact marking machine for spraying simple markings on various products

Features

- Pneumatically controlled spray nozzle.
- Suitable for marking cables, wires, tubing, or sections.
- Installs anywhere in the extrusion line after the **defect detector**.

Application

- **Marking of defect locations** along continuously extruded products triggered by external defect detector.

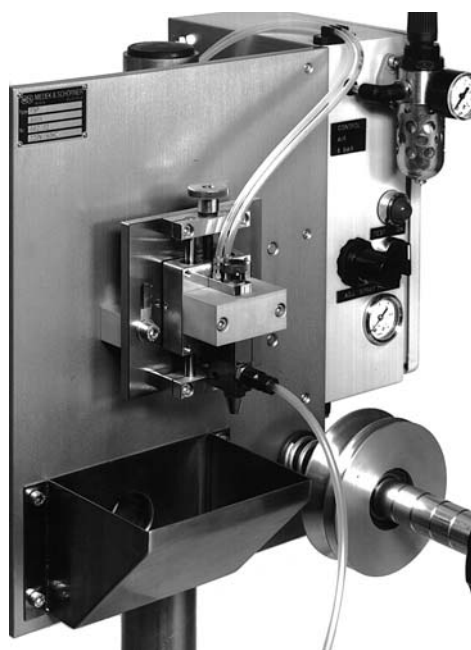
Standard Configuration

- Frame with support column and crank-operated height adjustment mechanism.
- Marking head with ink spray nozzle.

Ink Spray Striping Markers

FSP

Marking machine for applying a solid or dashed longitudinal stripe or individual ink marks on continuously extruded products



Features

- Capable of applying **colored stripes** 1.5 mm to 8 mm wide.
- Applies solid or dashed stripes.
- Length of individual marks depends on marking speed and can be adjusted from 2 cm to 20 cm via an adjustable spray timer.
- Input for external contact closure for controlled intermittent operation.

Application

- **Spraying solid or dashed stripes** or individual markings onto hot products immediately after the extruder.

Specifications

- Max. marking speed: approx. 50 m/minute
- Stripe width: 1,5 mm to 8 mm
- Spray timing for individual marks: $\geq 0,1$ s, adjustable
- Length of individual marks: 2 cm to 20 cm (standard range)

Standard Configuration

- Frame with support column and crank-operated height adjustment mechanism.
- Marking head with micro spray nozzle and ink spray control unit. Product guiding system. Separate ink tank.

Accessories

- Spray nozzles

HOW TO AVOID CABLE SCRAP AND SAVE COSTS

Video Print Monitoring System VQS / VST



- **Print monitoring at speeds up to 2000 m/min and above**
- **Real-time inspection for bad quality and/or missing prints**

The video monitoring system has been designed to continuously monitor the print quality of fast-running cable printing machines. Suitable for all kinds of printing processes, such as gravure printing, hot foil meter marking, ring marking, Inkjet printing.

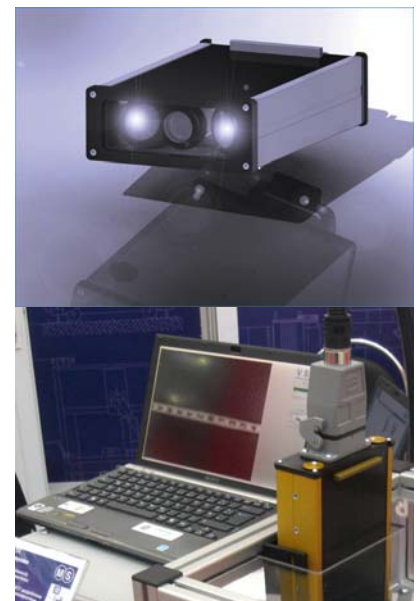


Model VQS

- Video camera with integrated flash units that are automatically synchronized with the printing process.
- Mounted on a motor-driven head that can be pivoted around the cable axis, making it extremely easy to find the correct orientation (cable twisting after printing).
- Sturdy frame with an integrated PC on a pivoting bracket and control boxes with power supplies and motor controller for rotating and focusing the head.
- Very easily to be connected to the stroboscope socket of the cable printing machine.
- Encapsulated device to prevent soiling by ink splashes, and thanks to its compact footprint is very easy to integrate in the cable production line after the printing machine.

Model VST

Very basic version of consisting of the high speed video camera head with integrated stroboscope lamps; but without the motorized pivoting head and without stand and PC unit. Machine stand and PC unit with software for evaluation can be offered separately upon request.



Features

- The system offers the convenience of being able to view the entire print area at various magnifications on a monitor screen.
- Since the control PC is networkable (Ethernet), apart from a continuous display of the print area directly on the production line, it can also be used for parallel monitoring of the product at an external location.

The integrated software allows various evaluations of the displayed print area; e.g. alarm in case of bad quality and/or missing prints; observation of the correct colour of the insulation, etc.