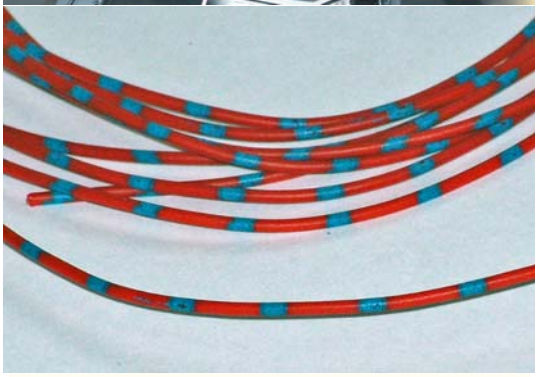
RING MARKING

Ring marking of thin wires – especially control cables or telephone wires – involves spraying the marking ink onto the wire as it runs past through rotating jet wheels (marking drums).
Since there are no limits to the frequency of oscillation of special ring marking machines with rotating marking drums, they can keep up with the highest wire extrusion speeds normally encountered today.

Ring Markers from Medek & Schörner: European engineering at its best. Made in Austria.

The RS Series comprises precision-engineered, rugged ring markers for marking hot telephone or hookup wire at medium and high speeds.
The low and medium speed RS 70 ring marker uses interchangeable dual marking drums and has been designed for extrusion speeds of up to 1200 m/minute. Four different versions provide a wide range of ring patterns in one or two colors.
The three versions of the high speed RS 707 use rugged, interchangeable single marking drums for production speeds of up to 2500 m/minute. Both the RS 70 and the RS 707 allow single or two color marking of all standard ring patterns as well as custom patterns.
The RC 707-T Slim-Format ring marker has been specifically designed for use in high speed extrusion plants that provide little room between the extruder and cooling bath (foam skin plants).



All ring markers from Medek & Schörner can be extended with a range of Options for maximum flexibility. In addition, excellent manufacturing quality ensures exceptional reliability and long service life for each machine.

Our international distribution network provides expert consulting and service support worldwide.

RING MARKING

- Up to 1200 m/min
- Immediately after the Extruder
- Easy Changing of Ring Patterns

RS 70

the Custom Ringmarker

Ring marking system for marking hot telephone and hookup wire insulation with colored rings. The RS 70 has been designed for use immediately after the extruder, **at medium production speeds up to 1200 m/min**.
Four versions cover a wide range of applications.

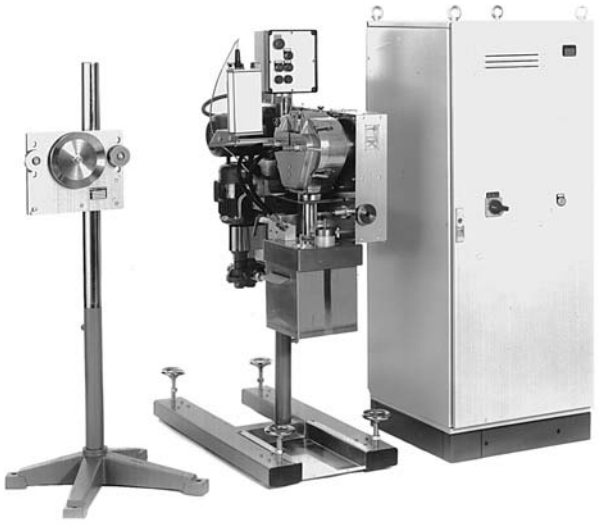
- Two-stage ink filter system prevents clogging of ink nozzles.
- Built-in ink cooler.
- Ink viscosity can be measured and adjusted during operation.
- Requires extremely little space between extruder and take-up.
- Automatically synchronized flashing stroboscope for monitoring ring quality and setting up marking parameters.

Specifications

- Max. marking speed:
  1200 m/minute
- Max. wire outside diameter: 3 mm
  (special version for up to
  5 mm available)
- Automatically synchronised with the wire speed by means of a
  0-10 V DC signal output from the extrusion line control
- No rotating gaskets in the marking assembly.
- Simple installation with no changes to the extrusion line required.
- Maximum marking speed does not depend on ring spacing.
- Dedicated replaceable drawer-type ink tanks allow quick color change.
- Available with gear pump or diaphragm pump (for water based inks).

Common Features

- Rugged, virtually maintenance-free AC drive.
- Marking drums run absolutely vibration-free, with no control variations.
- Ink paths contain no rotating gaskets.
- Height-adjustable marking system can be easily engaged and disengaged without interfering with the extrusion process.
- Ring marking by a pair of rotating drums with high-precision ink nozzles.
- Interchangeable marking drums for easy changing of ring patterns.
- Marking drums for standard and custom ring patterns available.



The Four Versions at a Glance

The four versions of the RS 70 ring marker provide a custom solution for almost every application:

Single head marker

RS 70

Suitable for insulated wire up to 5 mm in diameter and the following production speeds depending on insulation material:
PE: up to 800 m/minute
PVC: up to 1200 m/minute

Complete system, ready to operate, comprising:

- Marking system with control console, built-in pair of marking drums for one ring pattern (specify when ordering), and 3 ink tanks;
- control cabinet with complete control electronics and power supply;
- automatically synchronized stroboscope for monitoring and adjusting marking parameters;
- all accessories and connecting cables required for operation.
- tacho generator unit for automatic synchronization of the marking drum drive to extrusion line speeds within a 1:6 range; (optional)

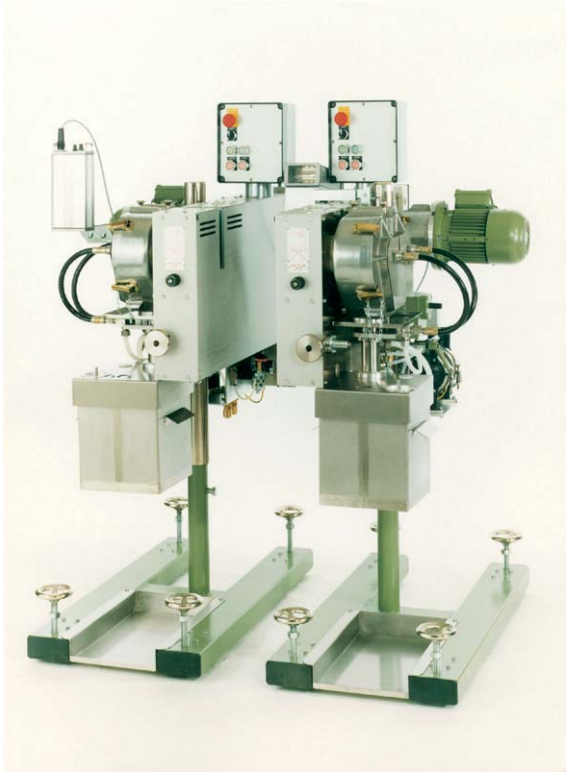
Dual-head machine for simultaneous ring marking in two colors.

2 x RS 70

Same as RS 70, except with two marking assemblies mechanically coupled by a phase adjustment mechanism.

- Complete system, ready to operate. Same as RS 70 except with 2 pairs of built-in marking drums for one two-color ring pattern (specify when ordering);
6 ink tanks

- quick change of ring pattern and/or color on the fly



The Four Versions at a Glance

Tandem system allowing ring color and/or spacing to be changed on the fly.

RS 70 T

The ink tank, marking drums (for different ring spacing), or both may be exchanged on one marking system while the other continues operating. You can then switch over without stopping the extrusion line.

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Complete system, ready to operate, comprising:

- 2 RS 70 markers with one pair of built-in marking drums and one stroboscope each;
- control cabinet with common control electronics and power supply;

1 tacho generator unit;
6 ink tanks.

Tandem system for two-color ring marking. In single-color mode, ring color and/or spacing can be changed on the fly.

RS 70 T SYN

Complete system, ready to operate. Same as RS 70 T, except with phase locked electronic synchronizer for the two marking assemblies allowing ring marking in two colors.

- Up to 2500 m/min
- Immediately after the Extruder
- Easy Changing of Ring Patterns
- Interchangeable Single Marking Drums

RS 707

Fast and Versatile.

Ring marking system for marking hot telephone and hookup wire insulation with colored rings at high production speeds up to 2500 m/min. The RS 707 has been designed for use within advanced extrusion plants, immediately aft of the extruder.
Three versions are available for a wide range of applications.

Common Features

- Rugged, virtually maintenance-free AC drive.
- Marking drums run absolutely vibration-free, with no control variations.
- Ink paths contain no rotating gaskets.
- Height-adjustable marking system can be easily engaged and disengaged without interfering with the extrusion process.
- Ring marking by rotating drum with high-precision ink nozzles.
- Exceptionally crisp marking even at three times the speed of conventional equipment.
- Simple installation with no changes to the extrusion line required.

RS 707

Specifications

- Max. marking speed: 2500 m/minute
- Max. wire outside diameter: 3 mm (special version for up to 5 mm available)

- Slight batch-to-batch variations in ink quality require no readjustments.
- Available with gear pump or diaphragm pump (for water based inks).
- Built-in ink cooler.
- Two-stage ink filter system prevents clogging of ink nozzles. Ink viscosity can be measured and adjusted during operation.
- Extremely narrow (requires only 300 mm between extruder and take-up).
- Automatically synchronized flashing stroboscope for quality monitoring and setting up marking parameters.
- Easy to set up and operate.
- Rugged, reliable single-drum marking assembly.
- No rotating gaskets in the marking assembly.
- Interchangeable marking drum for easy changing of ring spacing and width.
- Marking drums for standard and custom ring patterns available.
- Automatically synchronised with the wire speed by means of a 0-10 V DC signal output from the extrusion line control
- Dedicated replaceable drawer-type ink tanks allow quick color change.
- Remote tacho generator and thyristor inverter ensure accurate synchronization of marking drums to the wire. (optional)

- quick change of ring pattern and/or color on the fly

Three Versions go more than Three Ways

Available in three different versions, the RS 707 ring marker povides the optimum solution for most high-speed marking applications:

Tandem system for two-color ring marking. In single-color mode, ring color and/or spacing can be changed on the fly.

RS 707 T SYN

Complete system, ready to operate. Same as RS 707 T, except with phase locked electronic synchronizer for the two marking assemblies allowing ring marking in two colors.

Tandem system allowing ring color and/or spacing to be changed on the fly.

RS 707 T

The ink tank, marking drum (for different ring spacing), or both may be exchanged on one marking system while the other continues operating. You can then switch over without stopping the extrusion line.

Complete system, ready to operate, comprising:

- 2 RS 707 markers with control console, one built-in marking drum, one stroboscope, and 3 ink tanks each;
- control cabinet with common control electronics and power supply;
- tacho generator unit (optional)

Single head marker

RS 707

Suitable for marking speeds of up to 2500 m/minute.

Complete system, ready to operate, comprising:

- Marking system with control console, built-in marking drum for one ring pattern (specify when ordering), and 3 ink tanks;
  control cabinet with complete control electronics and power supply;
- Automatically synchronised with the wire speed by means of a 0-10 V DC signal output from the extrusion line control
- automatically synchronized stroboscope for monitoring and adjusting marking parameters;
  all accessories and connecting cables required for operation.
- tacho generator unit for automatic synchronization of the marking drum drive to extrusion line speeds within a 1:6 range; (optional)

- *Tandem system for quick change of ring pattern and/or color on-the-fly*
- *Requires only approximately 250 mm along the extrusion line.*
- *Up to 1800 m/min*
- *Immediately after the Extruder*

RC 707 T

Narrow and Compact.

Ring marking system for marking hot telephone and hookup wire insulation with colored rings at production speeds up to 1800 m/min. The RC 707 T has been specifically designed for use in high speed extrusion plants that provide little room between the extruder and cooling bath (foam skin plants).
Tandem system with two marking heads,
allowing change of ring distance and/or ring color on the fly.

- Since the marking heads are arranged transversally to the extrusion line, the tandem machine requires only approximately 250 mm along the extrusion line.
- This makes the RC 707 T high performance system the optimum choice for foam skin plants.

Common Features

- Rugged, virtually maintenance-free servo drive.
- Marking drums run absolutely vibration-free, with no control variations.
- Ink paths contain no rotating gaskets.
- Ring marking by rotating drum with high-precision ink nozzles.
- Exceptionally crisp marking

RC 707 T

Tandem system with two marking heads on a common frame, for quick changeover from one marking head to the other which has been set up for a different color or ring spacing in the meantime.

- Complete system, ready to operate, comprising:
  Ring marker RC 707 T with
  2 marking heads, integrated control cabinet and control console, 2 marking drums and one stroboscope.

Specifications

- Max. marking speed:
  1800 m/minute
- Max. wire outside diameter: 3 mm (special version for up to 5 mm available)
- Extremely narrow (approximately 250 mm along the extrusion line).
- Automatic synchronization to the line over a 1:6 speed range (requires a 0 V to 10 V signal proportional to the line speed; for lines providing no such control signal a dedicated frequency generator with tachometer wheel and incremental encoder is available as an option).
- With diaphragm pump (for water based inks).
- Built-in ink cooler.
- Ink filter system prevents clogging of ink nozzles.
- Ink supply system designed to accomodate 5-liter ink tanks.
- Easy to set up and operate.
- Rugged, reliable single-drum marking assembly.
- No rotating gaskets in the marking assembly.
- Interchangeable marking drums for easy changing of ring spacing and width.
- Marking drums for standard and custom ring patterns available.
  The congruence of ring halfes sprayed on from both sides can be adjusted by varying the transverse position of the marking head relative to the wire.
- The automatic, motorized transversal positioning system allows up to 99 different positions to be stored and the marking head to be moved automatically to each stored position.
- Automatically synchronized flashing stroboscope for quality monitoring and setting up marking parameters.

Options for RS 70 und RS 707

Option FG, separate frequency generator for marker synchronization.

Automatic synchronization to the line over a 1:6 speed range (requires a 0 V to 10 V signal proportional to the line speed);
for lines providing no such control signal a dedicated frequency generator with tachometer wheel and incremental encoder is required

Automatic viscosity control for marking inks. Option V

Required for extremely high marking speeds.
A rotating sensor causes thinner or thickening agent to be added when the viscosity deviates from a preset value.
All RS Series ring markers are available on request, at no extra cost, with special ink tanks for later installation of Option V.

Ink level sensor and indicator system for ink tanks. Option LD

Triggers a control cabinet warning signal as the ink level drops below minimum. The warning signal thus gives an indication of how much ink or solvent may be added.
We recommend to install Option LD in all markers with Option V.

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.

Options for RS 70 und RS 707

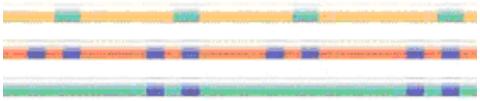
Marking system elevator with manual controls. Option HT

The RS 707 sprays ring halves on the passing wire from opposite sides. In order to obtain gapless rings the marking system needs to be placed exactly at the correct height relative to the wire.
An UP/DOWN toggle allows the marking system to be raised or lowered and a display indicates the marking system position in 0.1-mm increments.

Accessories for RS 70 und RS 707

Marking Drums

easily replaceable marking drums for use as spares for supplied marking drums or for changing the ring spacing or pattern. The RS 70 requires a pair, the RS 707 (and the RC 707 T) a single marking drum per marking system.
Standard ring patterns include single or double rings every 17 mm; double rings every 34 mm; one, two, three, or four rings every 60 mm, etc.
Marking drums for custom ring patterns are also available.



Ink Tanks

Drawer-type ink tanks for storing ink or changing ring colors quickly.
Ink tanks are available with a capacity of either 10 l for standard markers or 15 l for markers with an Option V automatic viscosity control.

Recommended Inks

RS Series ring markers should only be used with solvents and inks released by the manufacturer for the insulation material to be marked. Ink viscosity should be approx. 12 to 13 seconds (measured with a DIN test cup with 4-mm outlet, equivalent to approx. 23 seconds measured with a 3-mm test cup).
In order to prevent pigment sedimentation in the ink tubes and marking drums, be sure to use extremely fine-pigmented inks only.