

AUTOMOTIVE WIRE

AUTOMOTIVE WIRE INSULATION LINE RA-A

With the Unique ROCOMAT Quick Colour Change System

HIGH FLEXIBILITY



The Rosendahl Automotive Wire Insulation Line covers the process of a wide range of **different insulation materials**.

The unique feature of the quick colour change system ROCOMAT is the integration of the **colour change unit** into the crosshead.

The ROCOMAT System **reduces the material volume** to an absolute minimum and achieves an extremely **short colour change length**.

Shortest crap length is guaranteed by the ROCOMAT in combination with the RIO Line Control System.

APPLICATIONS



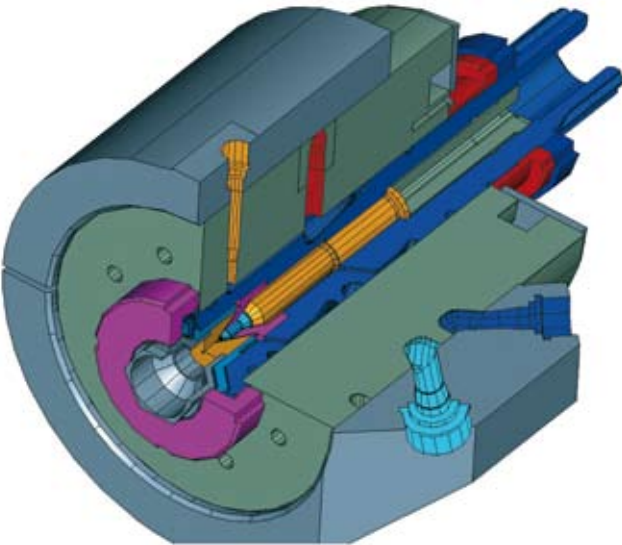
single and multi-layer insulation/jacketing, including quick colour change

PRODUCT PROGRAM

- standard line types with 2 Extruders
- quick colour change lines with 3 and 4 Extruders

The auxiliary Extruders are available as vertical machines or as horizontal machines, respectively.

LINE COMPONENTS FOR RA-A



The patent protected ROCOMAT quick-colour-change-system ensures maximum compactness. The ROCOMAT in combination with the ABC (Automatic Batch Control) module is a very efficient tool to reduce scrap and to increase productivity.

The ABC module allows the definition of production batches. Parameters, like order number, product type, product colour, batch length, etc., can be defined and put into a sequence, which automatically is processed after activation.

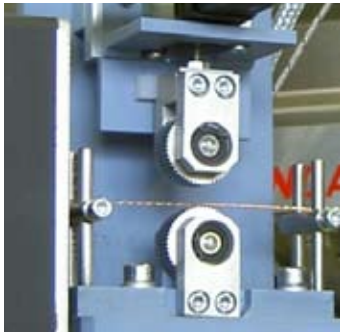


The picture shows the cross sectional view of a 0.5 mm² product which was manufactured on a 3 Extruder ROCOMAT quick-colour-change-system. The picture reflects the product conditions immediately before the colour change.

Product after the colour change:

- Main colour: brown
- Stripe colour: red
- Non visible stripe: white

The output of all 3 Extruders is utilised on the cable; consequently there is no purging scrap.



Rosendahl lines can be equipped with a special scrap marker. The scrap marker provokes spark faults which allows to identify weldings below the insulation.

The scrap marker is placed between crosshead and cooling trough.



The design of Rosendahl cooling troughs allows an easy access.

Highly efficient cable dryers ensure a proper function, even at top line speeds. The cable dryers are equipped with a blower and do not require compressed air.



The picture shows a cross sectional view of a 0.22 mm² product manufactured on a 4 Extruder ROCOMAT quick-colour-change-system. Also in this case all 4 Extruders are producing onto the cable. This sample was taken before a colour change.

Product after the colour change:

- Main colour: brown
- Stripe colour: red
- Inner layer: yellow
- Non visible stripe: white



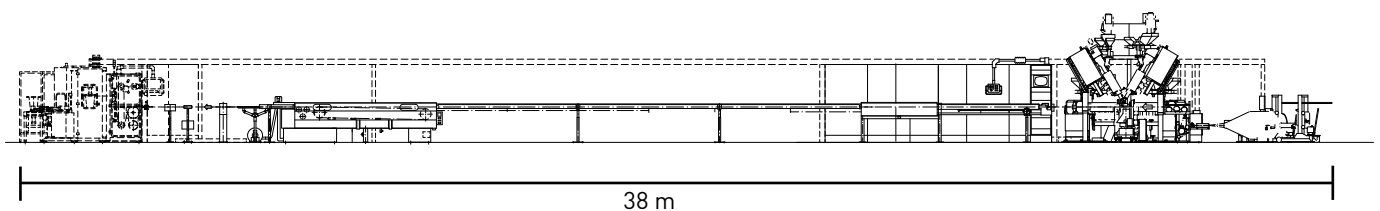
Rosendahl single core extrusion lines are available with different take-up systems, like double spoolers, barrel coilers, ring coilers or Niehoff NPS take-ups (acc. picture), depending on the requirements of each customer.

TECHNICAL DATA

LINE DATA	RA-A (3 Extruders) for skin or stripe change	RA-A (4 Extruders) for skin & stripe change
Dual Flyer Pay-Off	DAB630 / DAB800	DAB630 / DAB800
Brake Stand / Input Capstan	BSA 166	BSA 166
Tension Control	Load Cell	Load Cell
Preheating Unit	Option	Option
Main Extruder	45 to 75 mm	45 to 75 mm
Auxiliary Extruder	30 to 45 mm Horizontal or Vertical	30 to 45 mm Horizontal or Vertical
Dosing System	Volumetric / Gravimetric	Volumetric / Gravimetric
Colour Change System	ROCOMAT 5.1.2	ROCOMAT 5.2.2
Diameter Measuring	Dual Plane	Dual Plane
Spark Tester	max. 15 kV	max. 15 kV
Eccentricity Measuring	Option	Option
Diameter Measuring	Dual Plane	Dual Plane
Capstan	Depending on Take-Up or incl. in Multi Pass	Depending on Take-Up or incl. in Multi Pass
Take-Up System	Double Reeler, NPS System, Barrel Coiler, Ring Coiler	Double Reeler, NPS System, Barrel Coiler, Ring Coiler

PROCESSING DATA		
Conductor	Flexible Copper 0.22 - 6 mm ²	Flexible Copper 0.22 - 6 mm ²
Diameter Over Insulation	1.1 - 5.5 mm	1.1 - 5.5 mm
Max. Line Speed	1200 m/min	1200 m/min

ELECTRICAL DATA		
Control System	RIO Intouch	RIO Intouch
Power Supply	3 x 400V, 50 Hz (others on request)	3 x 400V, 50 Hz (others on request)



Extrusion • Corrugation • Optical Fiber • SZ-Stranding

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