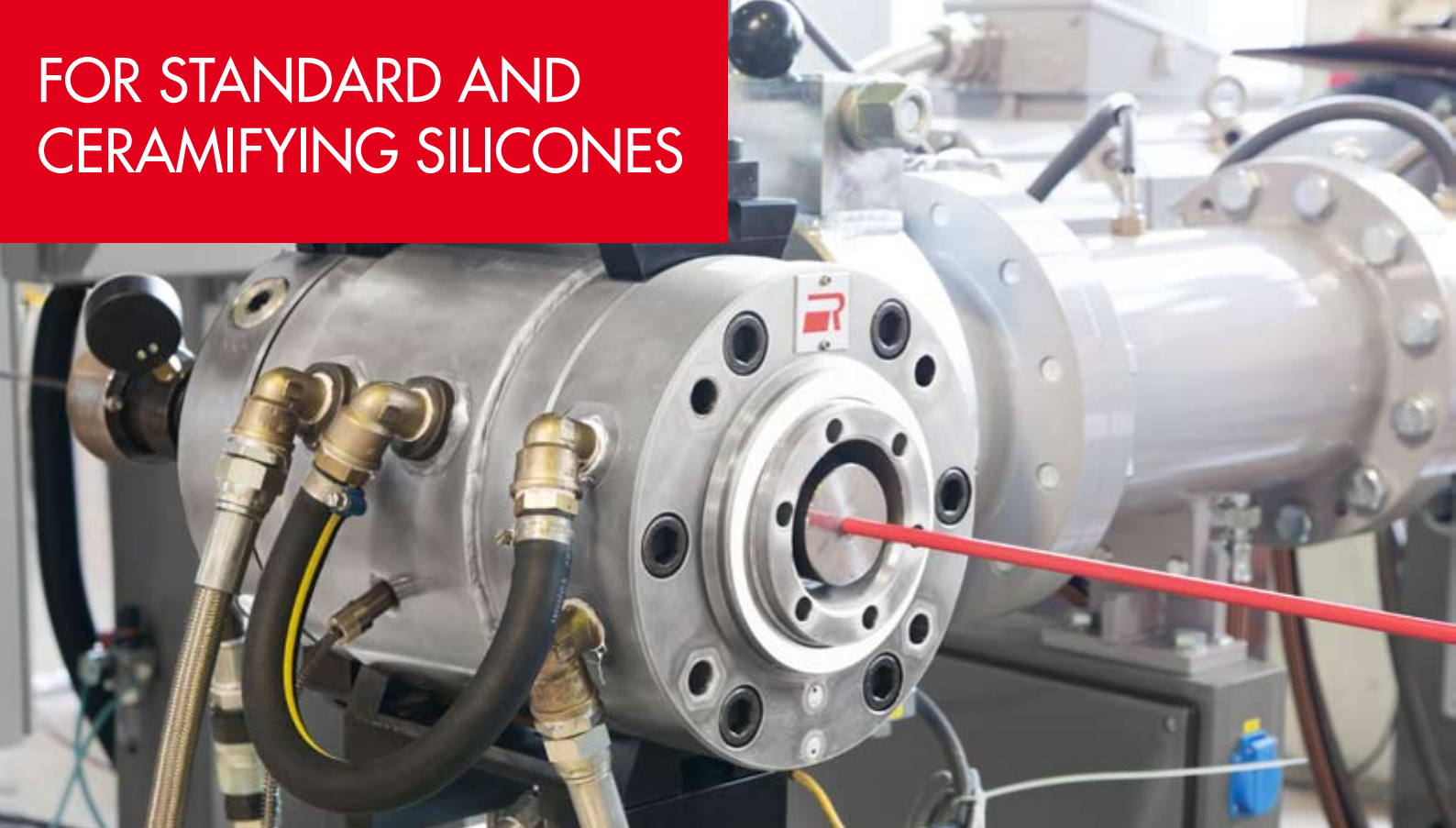


RN-Z SILICONE EXTRUSION LINE

With Infrared Curing



FOR STANDARD AND CERAMIFYING SILICONES



The RN-Z Rosendahl Silicone Extrusion Line covers a wide range of materials, products and product designs from **single layer insulation** to **jacketing** and **flat heating cables**.

The extruders are designed to process silicone with **low shear** at **good linearity** for **minimized start-up scrap**.

The extruders and crossheads are suitable for processing **standard silicones and ceramifying silicones**.

Rosendahl's **process know-how** and its theoretical background provide **optimized line configurations** regarding extruder size and curing length.

RIO Line Control provides **optimized operator support** for product start-up and curing.

RX SIL CROSSHEADS

RX SIL crossheads for silicone applications are available as single or dual layer heads with optional stripe/skin application in water cooled design.

Cross sections in the adapters, the flow channels and distributor geometry are optimized for low shear. Low temperatures ensure optimal processability of different grades of silicone, whether plain or ceramifying types are used.

RX SIL crossheads are manually centered for perfect product quality and materials savings.

Each crosshead can be set up with a vacuum connection for air extraction on class 2, 5 or 6 conductors.

All crossheads feature hydraulic extraction of the distributor.



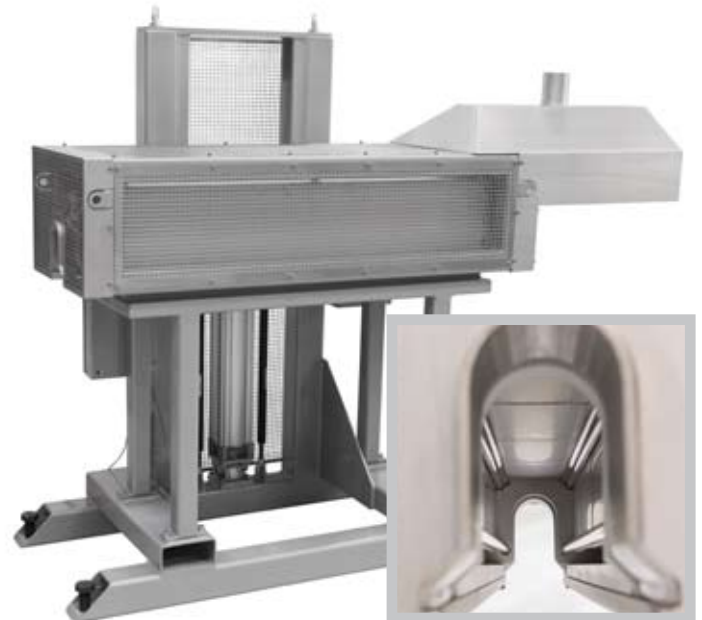
SILICONE EXTRUSION



SILICONE STRIP CONVEYOR

The RN-Z Silicone Extruders can be equipped with a strip conveyor for continuous silicone stripe feeding. This system does not require an additional operator.

The machine performs automatic strip insertion to the feed roller if feeding is interrupted.



ROSO SHOCK OVEN

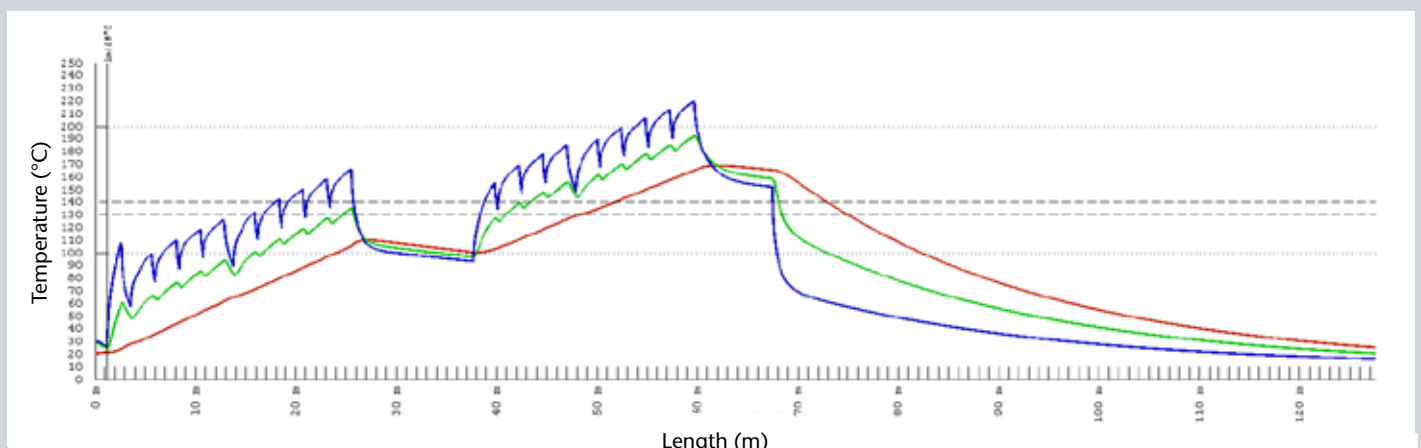
The ROSO Shock Oven guarantees fastest surface cross-linking thanks to newly designed infrared radiators. This system protects the insulated/jacketed product from scratches and marks from support rollers used later in the process.

The fully automatic operation of the shock oven and the curing tunnels at the line start-up support the operator and reduce start-up scrap.

THE CURING PROCESS

Mathematical analysis of the curing process enables Rosendahl to provide guaranteed speeds for individual product designs.

Thus, you receive exact ROI calculations with the required line productivity.



PROCESSING DATA

LINE DATA

Pay-off	630 - 1,000 mm	800 - 1,600 mm	800 - 2,500 mm
Accumulator	Optional	Optional	Optional
Capstan	DSA800	DSA800	DSA800/ROCA
Pre-Heater	Optional	Optional	Optional
Extruder, 1st Layer	ROEX 45 / ROEX 60	ROEX 45 / ROEX 60	-
Extruder, main	ROEX 90	ROEX 90 / ROEX 120	ROEX 90 / ROEX 120
Extruder skin/stripe	ROEX 45 / ROEX 60	ROEX 45 / ROEX 60	ROEX 45 / ROEX 60
Crosshead	RX 12 SIL	RX 25 SIL	RX 35 / RX 60 SIL
Diameter / Concentricity	•	•	•
Shock Oven*	24 kW	24 kW	24 kW
IR Curing*	4 x 19 kW + N x 11 kW 1, 2 or 3 Passes	4 x 19 kW + N x 11 kW 1, 2 or 3 Passes	4 x 19 kW + N x 11 kW 1, 2 or 3 Passes
Spark	•	•	•
Diameter	•	•	•
Cooling Trough	800 mm Multipass	800 mm Multipass	800 mm Multipass
Accumulator	Optional	Optional	Optional
Capstan/Caterpillar	DSA 800 / ROCA	ROCA	ROCA
Talcum Applicator	•	•	•
Take-Up	800 - 1,000 mm Single or Dual Reeler	Single 800 - 1,600 mm Dual Reeler 800 - 1,250 mm	1.600 - 2,500 mm

* approx. power

PROCESSING DATA

Conductor	Solid, Flexible	Solid, Flexible	Solid, Flexible
Conductor Material	Cu, Al, Alloys	Cu, Al, Alloys	Cu, Al, Alloys
Cross Section	0.25 - 10 mm ²	1.5 - 35 mm ²	10 - 240 mm ²
Design Insulation	SL, SL + Stripe, SL + Skin DL, DL + Stripe, DL + Skin	SL, SL + Stripe, SL + Skin DL, DL + Stripe, DL + Skin	SL, SL + Stripe, SL + Skin DL, DL + Stripe, DL + Skin
Design Jacketing	Filling and Jacketing Jacketing + Skin/Stripe	Filling and Jacketing Jacketing + Skin/Stripe	Filling and Jacketing Jacketing + Skin/Stripe

ELECTRICAL DATA

Control System	RIO, RLC	RIO, RLC	RIO, RLC
Power Supply	3 x 400, 50 Hz	3 x 400, 50 Hz	3 x 400, 50 Hz



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