

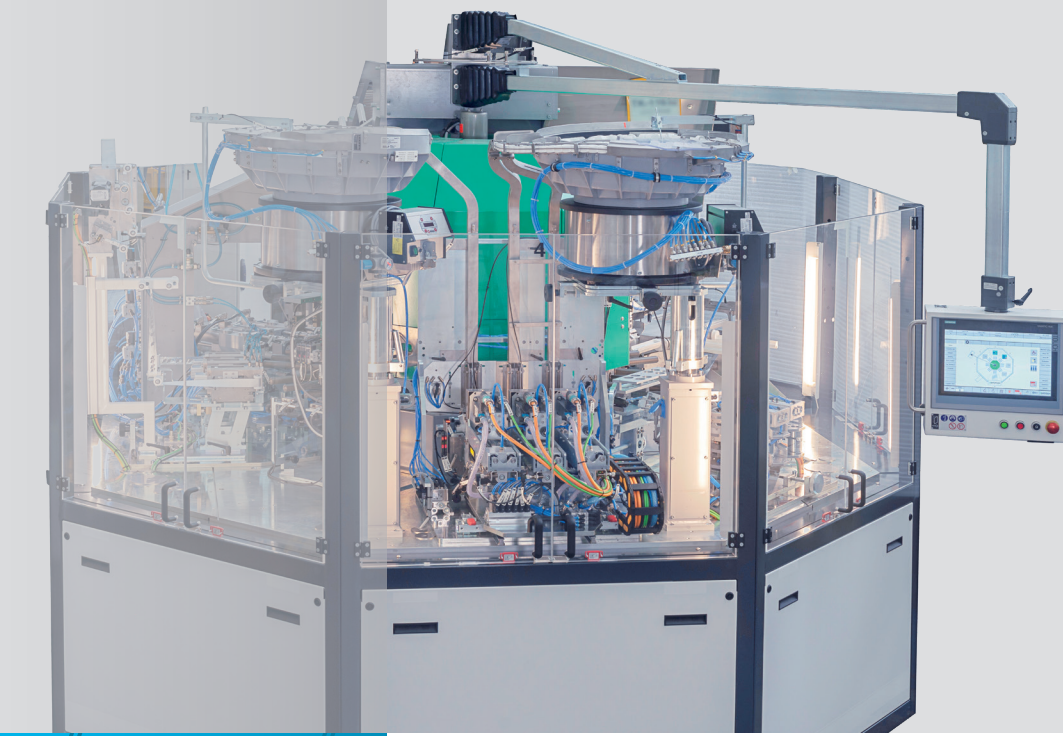
- // High reliability and maximum productivity
- // Excellent access to the stations
- // Different workstation options (can also be retrofitted)

Cap registering mark detection with camera	Cap snap-on (positioning)	Cap screw-on	Cap tightening	Labeling	Cap-Tube quality control with camera
		 (no conical caps)			
✗	✓	✓	✓	✗	✗
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✗	✗
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✗	✓

The //polytype RHM 100/160/200 & 300 is a high-quality Swiss product delivering excellent process reliability. Its ease of access also makes it a very maintenance-friendly and user-friendly machine.

The //polytype CM 130 is a high-quality capping machine designed in Switzerland that fulfills everyday needs. It is the optimal solution as a standalone machine for flexible production.

## RHM 100 / 160 / 200 RHM 300 / CM 130 – perfect capping



## For all your tube capping needs

### Operations overview

Tube transfer	Snipping	1-Step membrane sealing	2-Steps membrane sealing	Special applications
	Up to 130 / min	✗	✓ (up to 90 / min)	✗
	Up to 100 / min	✓	✓	✓
	Up to 160 / min	✗	✓	✓
	Up to 200 / min	✓	✓	✓
	Up to 300 / min	✓	✓	✓

The flexible machine for finishing tubes and applying caps in inline and offline production

The modular design of the //polytype RHM 100/160/200 & 300 makes it ideal for finishing tubes. Its unique flexibility resulting from freely selectable operations means it can be used for a wide range of applications. The //polytype CM130 is the right machine for standard cap finishing operations, with a small footprint and an excellent price-performance ratio.

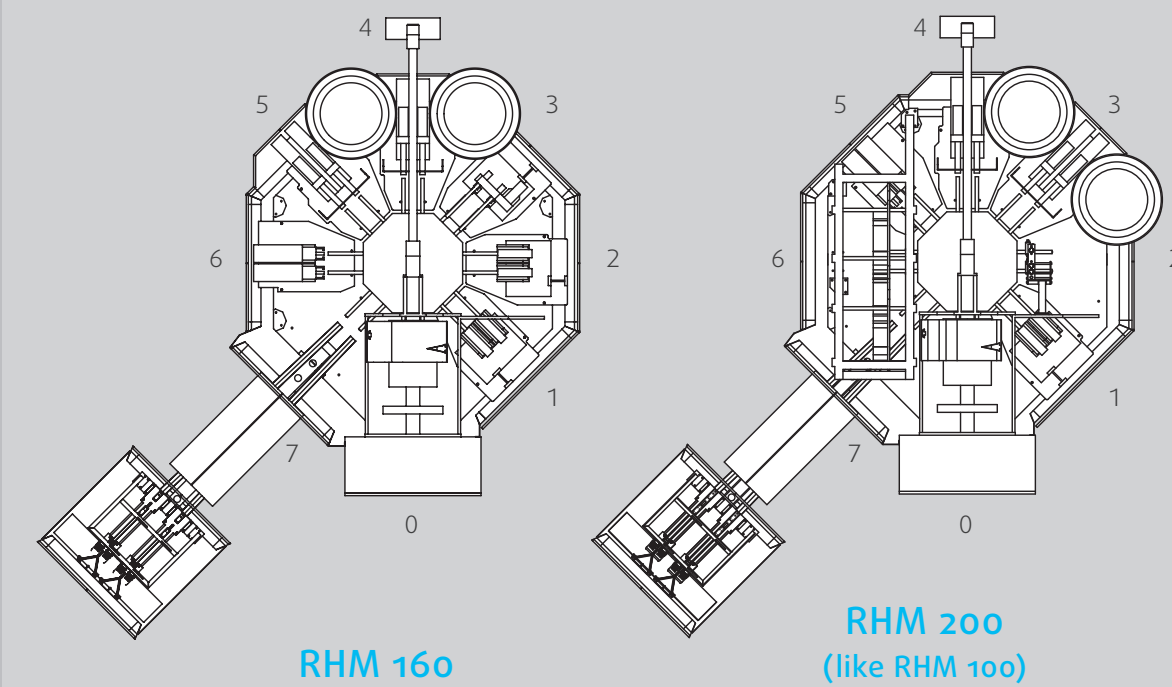
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## Many high-quality processes on a single machine

- // Fast product changeovers and simple maintenance
- // Simple control interface designed for a fast set up
- // Integrated process control for a safe production
- // Prepared for industry 4.0



RHM 160

RHM 200  
(like RHM 100)

### Stations can be set up for RHM 160

- 0 – Feeding tubes
- 1 – Membrane film punching
- 2 – Membrane film sealing
- 3 – Mark detection
- 4 – KPFS for cap screw-on / snap-on
- 5 – KPFS for cap screw-on / snap-on
- 6 – Cap tightening
- 7 – Unloading tubes

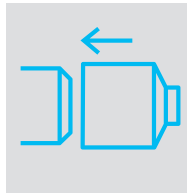
### Stations can be set up for RHM 200

- 0 – Feeding tubes
- 1 – Membrane film punching & sealing
- 2 – Mark detection
- 3 – KPFS for cap screw-on / snap-on
- 4 – KPFS for cap screw-on / snap-on
- 5 – Cap tightening
- 6 – Labeling
- 7 – Unloading tubes

Technical data	RHM 100	RHM 160	RHM 200
Min./max. diameter:	(13,5)19-50(60) mm	(13,5)19-50(60) mm	(13,5)19-50(60) mm
Skirt length:	50-215 mm	50-215 mm	50-215 mm
Cap diameter:	13,5-60 mm	13,5-60 mm	13,5-60 mm
Max. speed:	100 tubes/min	160 tubes/min	200 tubes/min
Mandrels*:	8	16	16
Weight of main machine:	~6000 kg	~6000 kg	~7000 kg

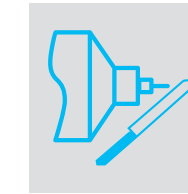
### Feeding tubes

Tubes are fed onto a vacuum drum using chain pins. Vacuum prisms transfer the tubes from the vacuum drum to the mandrels safely.



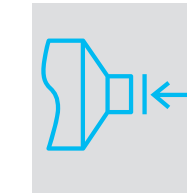
### Tube head snipping

As the tubes are rotated very quickly, a guillotine blade is used to cut the injection-molded tube heads cleanly to precisely the right size.



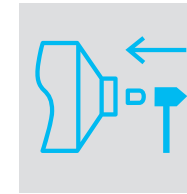
### Membrane film fixing

To seal the tube opening, precisely sized membranes are punched out before the aluminum or plastic laminate film is welded to the tube head.



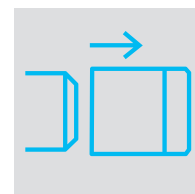
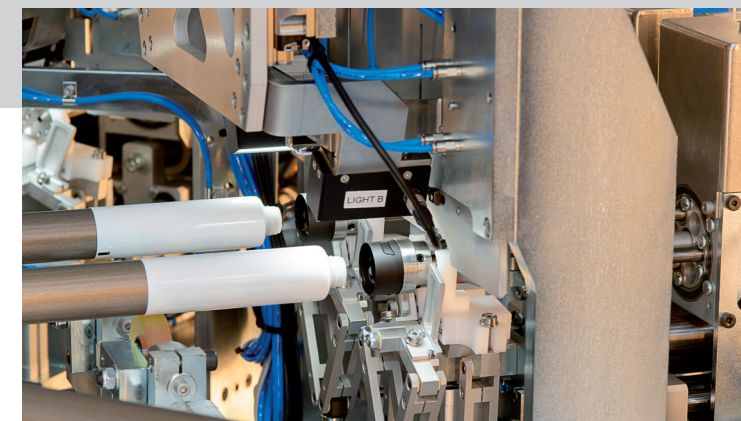
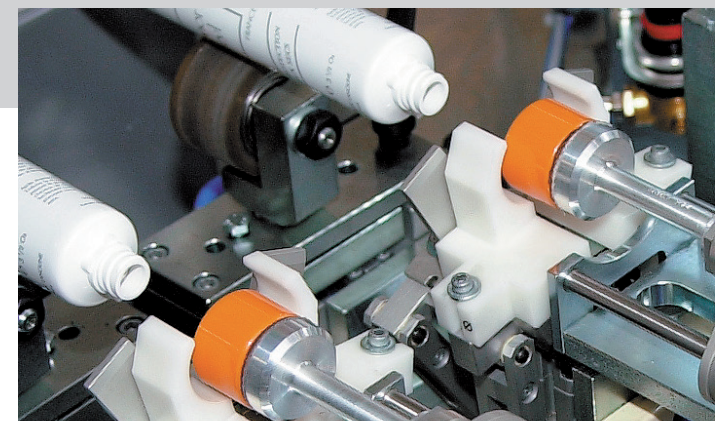
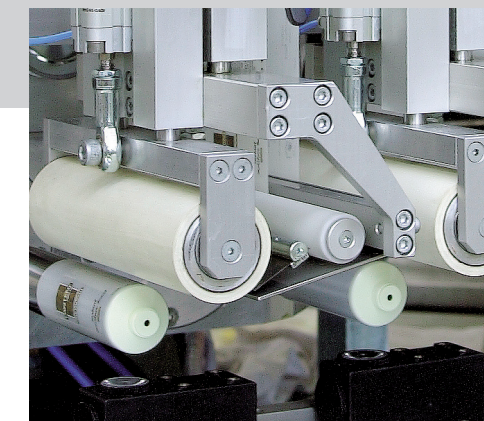
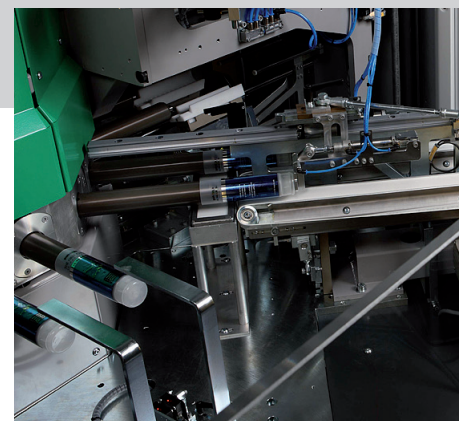
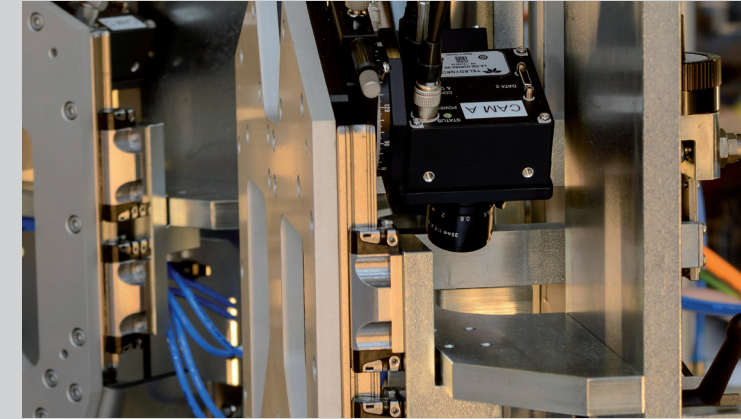
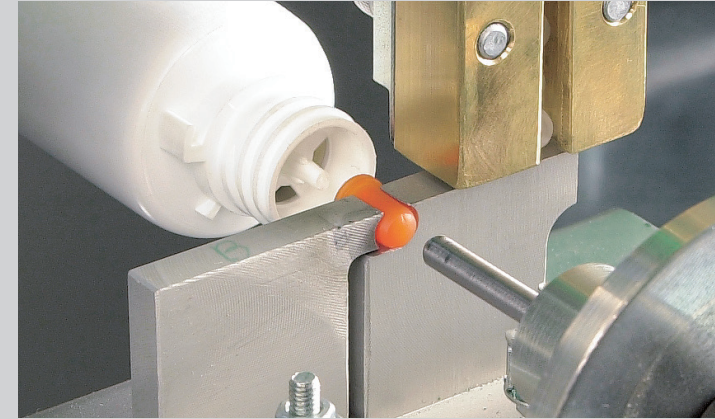
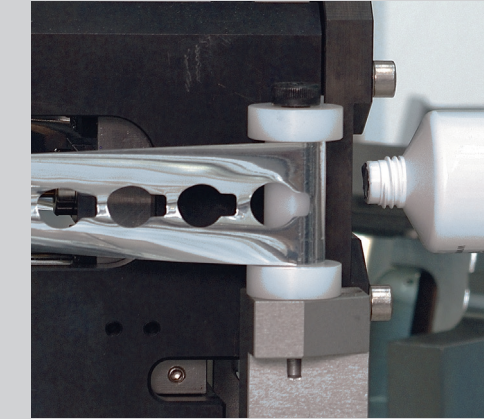
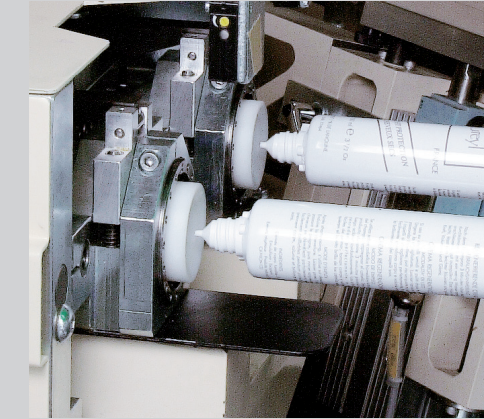
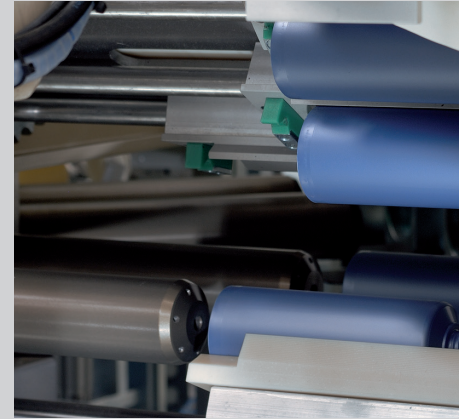
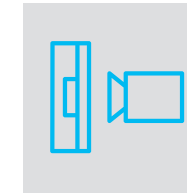
### Special applications

At this station, various types of inserts or pump spray heads are applied to the tube. Special solutions can be implemented to meet a wide range of requirements.



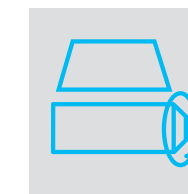
### Camera system

Camera system for registering mark detection on caps to ensure easy set-up and precise positioning and/or camera system for final quality check.



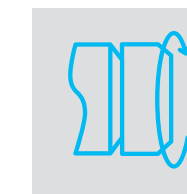
### Unloading tubes

The finished tubes are blown out onto a conveyor belt that is connected to a downstream drum and guides the tubes to the next process step. Rejects are also removed during this process.



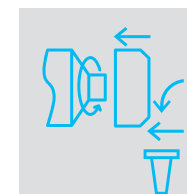
### Labeling

To attach self-adhesive labels, the label is first aligned precisely with the relevant cap or tube mark and then applied cleanly.



### Cap tightening

Once a cap has been screwed on, a controlled process is used to tighten it using the correct torque.



### Cap screw-on

In this process, standard screw-on caps are applied correctly with the standard KPSF station. With the 90° station, the application of conical caps can be carried out easily.



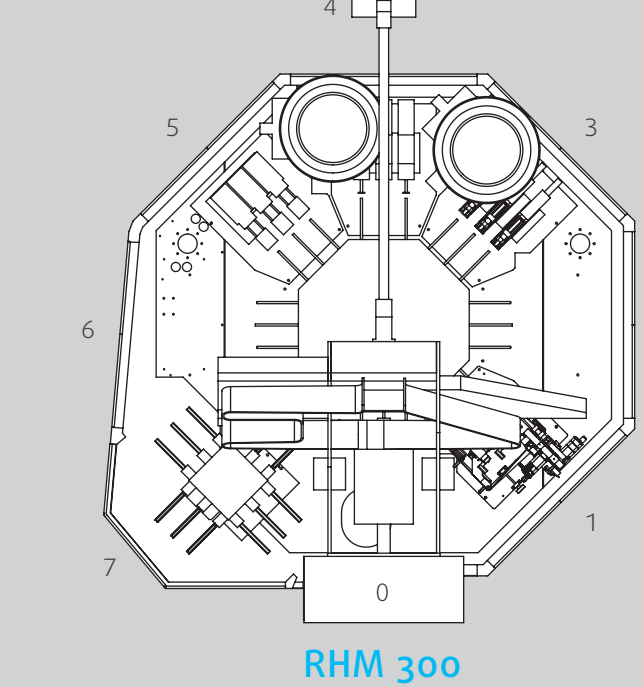
### Cap snap-on

In this process, flip-top caps are positioned correctly and pressed on with the standard KPSF station in accordance with the tube design.

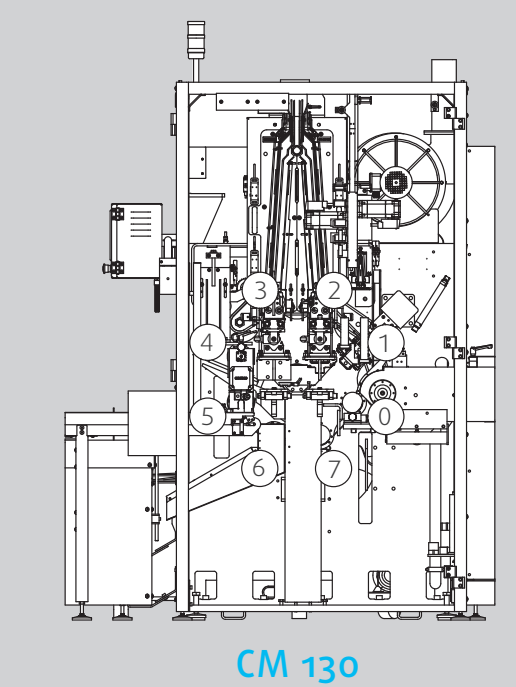
## For all your tube capping needs

### Other options:

- // Processing of metallized closures
- // Application of oval caps



RHM 300



CM 130

### Stations can be set up for RHM 300

- 0 – Feeding tubes
- 1 – Membrane film punching & sealing
- 2 – Mark detection
- 3 – Combi screw-on station
- 4 – KPFS for cap screw-on and snap-on
- 5 – Cap tightening
- 6 – Free
- 7 – Unloading tubes with prisms

Technical data	RHM 300	CM 130
Min./max. diameter:	(10)19-50 mm	19-50(60) mm
Skirt length:	50-215 mm	50-215 mm
Cap diameter:	10-50 mm	19-60 mm
Max. speed:	300/min	130/min
Mandrels:	24	8
Weight of main machine:	~8500 kg	~2500 kg

### Stations can be set up for CM 130

- 0 – Feeding tubes
- 1 – Feeding step 2 / Loading control
- 2 – KPFS for cap screw-on and snap-on / Or membrane film punching & sealing
- 3 – KPFS for cap screw-on and snap-on
- 4 – Cap tightening
- 5 – Unloading tubes
- 6 – Waste
- 7 – Check unloading