

THERMOFORMING SYSTEMS



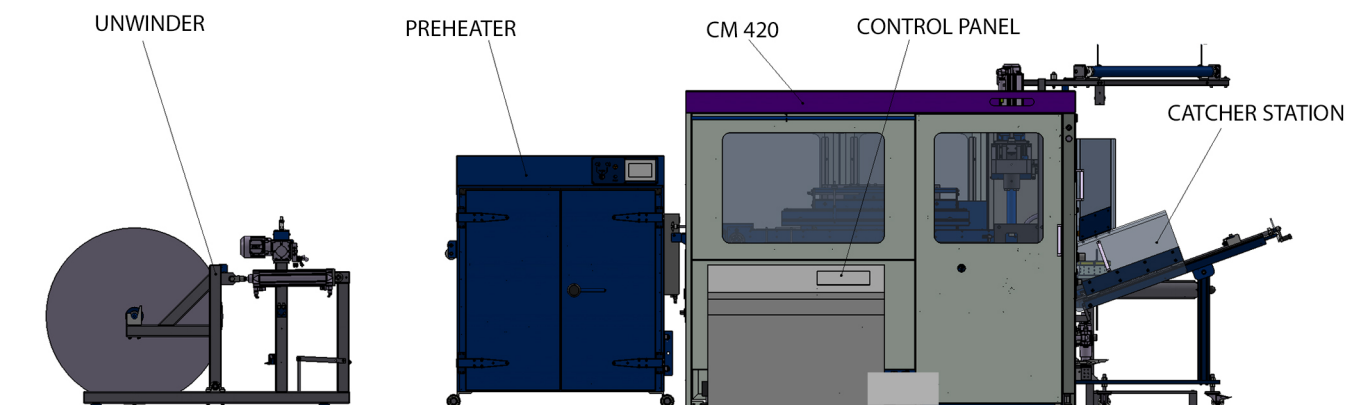
Designed for efficient Thermoforming.



Efficiency,
Simplicity,
Perfection.



CM 400 SERIES



- Flexible thermoforming machine for cups, lids, trays and special products
- Electronic adjustability of the punching cam
- Precise moulding table alignment
- Easy use of steel rule tools
- Multi-row tools (2 or 3-row, up to 15 cavities)
- 30% lower tool cost
- Unique 12 months warranty in three shift system



Technical Data:

	CM 490	CM 420
Forming area for punches and dies	460 mm x 250 mm	420 mm x 250 mm
Forming area for steel rule tools	490 mm x 250 mm	460 mm x 250 mm
Draw depth	155 mm optional 185 mm	155 mm optional 185 mm
Width of sheet, max	510 mm	480 mm
Idle clocking speed	60 cycles / min	

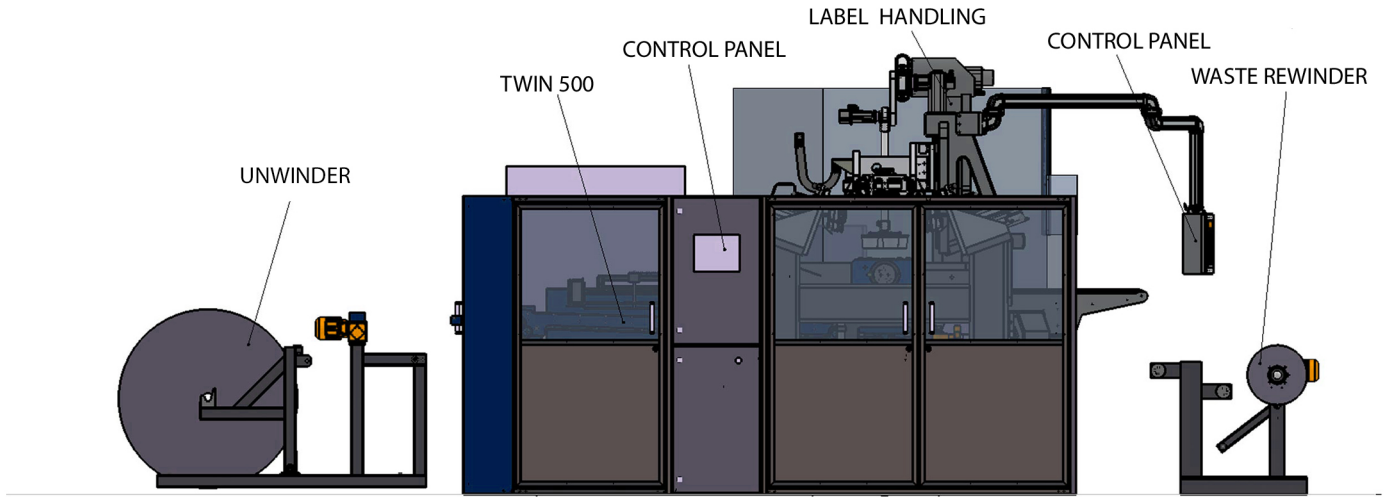
Heating capacity:

Upper heater	32 kW with longitudinal regulation	
Lower heater	32 kW with transverse regulation	
Plug system	servomotor Bosch Rexroth	4kW with shock absorption
Sheet transport	servomotor Bosch Rexroth	4kW
Main drive	servomotor Bosch Rexroth	4kW with shock absorption
Total power	76 kW connection	

Double toggle lever with electronic cam control

Cooling water	eight-fold flow controller regulator, manual flow control	
Cooling water flow rate	3000 l/h	
Tool temperature detection	upper tool and lower tool with PT 100	
Compressed air	6 bar	
Central lubrication system	progressive system	
Consumption of compressed air	tool-dependent (with cup volume 1l - approx.1200 l/min)	
Length/width/height complete line	8,5m x 3,8m x 2,5m	
Total weight compl.	6,5t	
Tool weight for cup tool	approx. 220 kg – 240 kg	

IML-T TWIN SYSTEM



- Compact dimensions
- Set up without commissioning
- Easy maintenance
- Super fast Tool exchange
- Remote service via Internet
- Tilting tool technology for high cutting forces
- Variable punching cam for high output

Technical Data:

Forming area for punches and dies	460 mm x 250 mm
Forming area for steel rule tools	490 mm x 250 mm
Draw depth	155 mm optional 185 mm
Width of sheet, max	510 mm
Idle clocking speed	50 cycles / min

Heating capacity:

Upper heater	41,6 kW with longitudinal regulation
Lower heater	41,6 kW with transverse regulation
Plug system	servomotor 5,5 kW
Sheet transport	servomotor 3,0 kW
Main drive	servomotor 22 kW
Total power	170 kW connection

Double toggle lever with electronic cam control

Cooling water	flow controller regulator, manual flow control
Cooling water flow rate	4500 l/h
Tool temperature detection	upper tool and lower tool with PT 100
Compressed air	6 bar
Central lubrication system	progressive system
Consumption of compressed air	tool-dependent (with cup volume 1l - approx.2000 l/min)
Length/width/height complete line	8,5m x 3,8m x 3,5m
Total weight compl.	6,5t
Tool weight for cup tool	approx. 220 kg – 240 kg



ROHDE Maschinenbau GmbH is a technology leader for **Steel Rule tooling**.

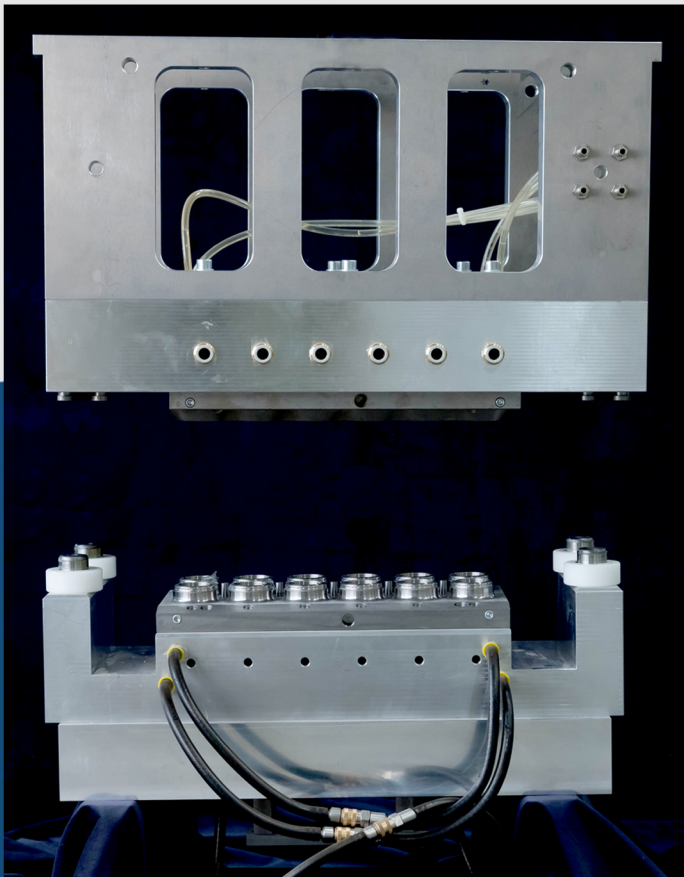
The combination with **optimized cooling systems** and **tilting technology** is unique and outstanding in the whole market.

Steel rule tools are a very interesting and competitive alternative to fully machined cutting tools.

Easy to produce, cost effective due to their exchangeable blades.



Combined with the **tilting technology** and high volume production the tools **cost can be significantly reduced by 20%-30%**.



Advantages of the tilting tools for the thermoforming machines :

- highly efficient
- fast
- high-precision
- suitable for steel rule tools
- easy to change

ROHDE Maschinenbau GmbH
is your first choice supplier
for tools for all known
thermoforming machines