

# TABLETING FOR CHEMICALS



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**PREXIMA 300**  
FOR MEDIUM  
PRODUCTION OUTPUT



**PREXIMA 800**  
FOR HIGH PRODUCTION OUTPUT,  
SUITABLE FOR BILAYER



**PREXIMA 300T**  
FOR MEDIUM PRODUCTION  
OUTPUT AND BIG TABLETS



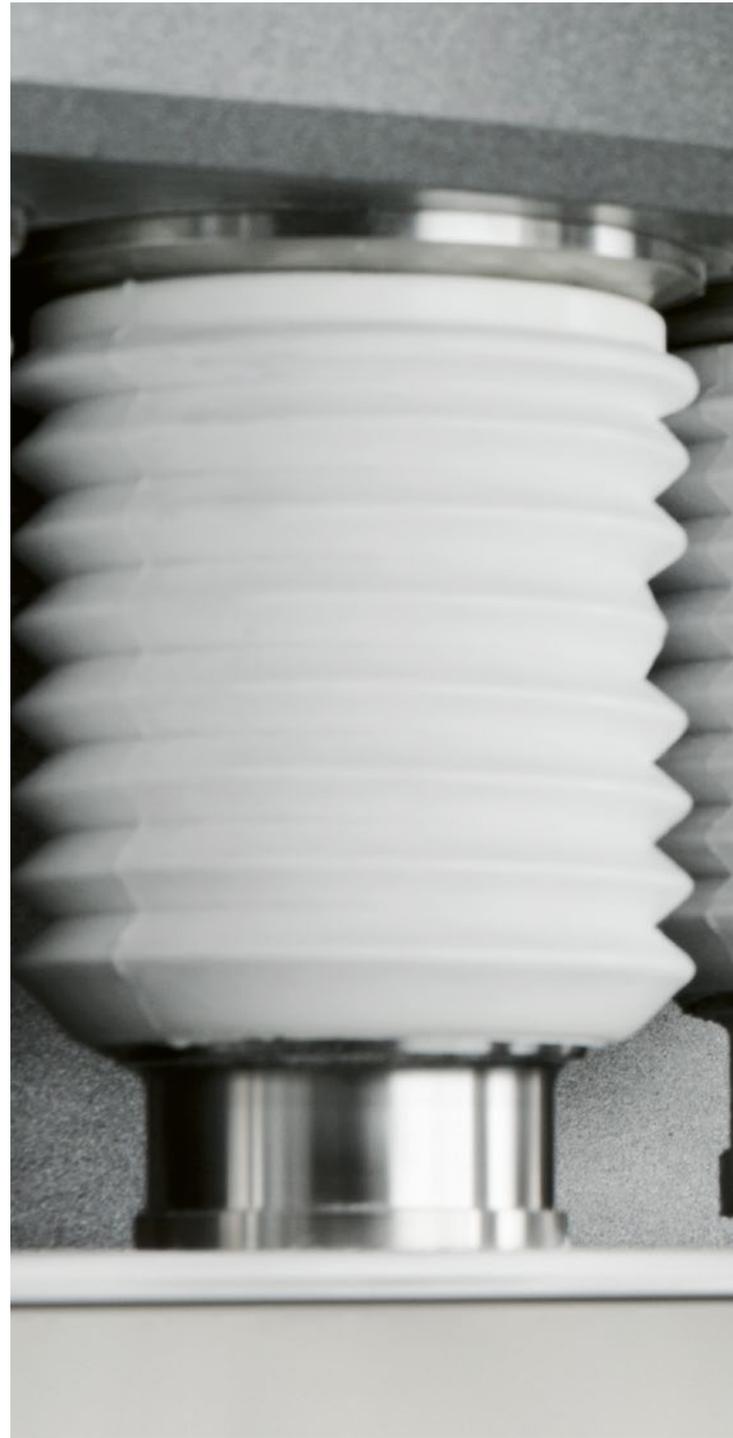
**PREXIMA 800T**  
FOR HIGH PRODUCTION  
OUTPUT AND BIG TABLETS,  
SUITABLE FOR BILAYER

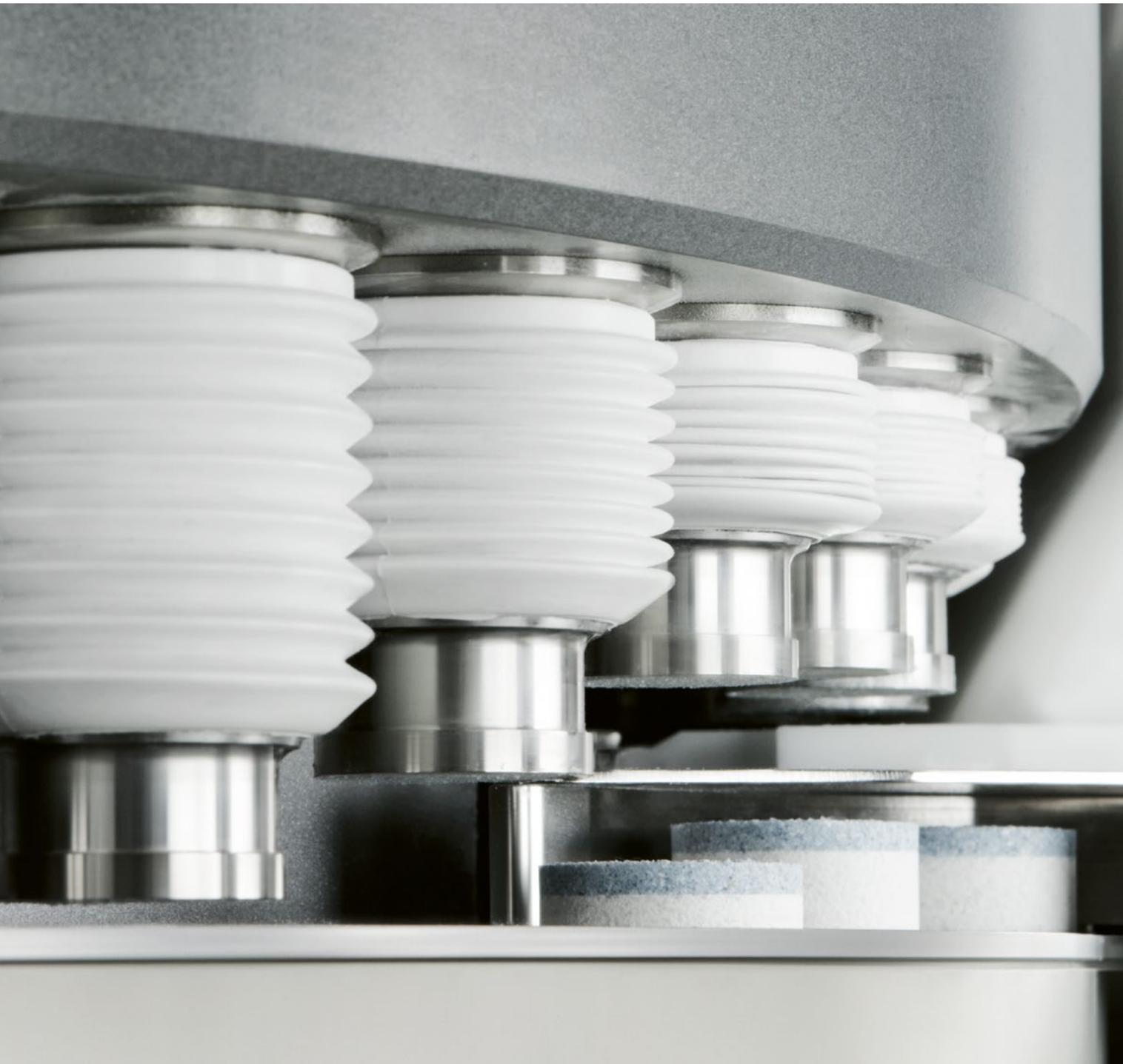


# TABLETING FOR CHEMICALS

The only goal we have in mind is to enhance your productivity, so we have combined our knowledge of the sector with unique Italian style, design and technical solutions to deliver top-level performance.

- RELIABILITY
- EFFICIENCY
- FLEXIBILITY
- ENHANCED USER EXPERIENCE





# RELIABILITY

## SEPARATION OF THE PROCESSING AREA

PREXIMA ensures complete separation between the processing and the mechanical areas thanks to the use of specially designed seals and protections. Bellows for enhanced isolation are available on request. The absence of product in the mechanical area makes for extended duration of cams, tooling and compression rollers, and leads to reduced maintenance.

A long-term investment.

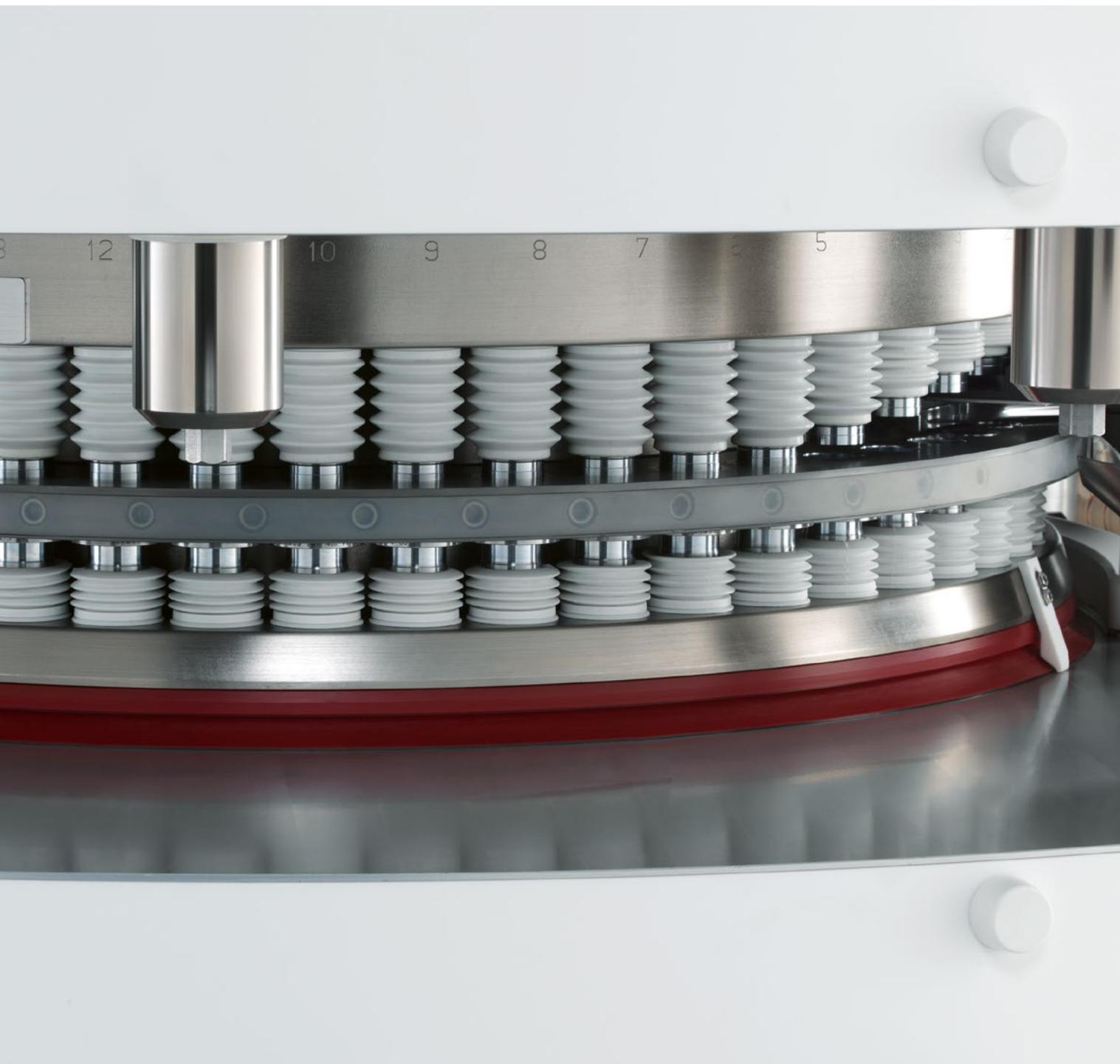
Additionally, a powder-free mechanical area allows for a totally automated and recirculated lubrication system for upper and lower compression rollers, punches and cams. The right quantity of oil is applied and excess lubrication is immediately recirculated, preventing the oil from dripping.

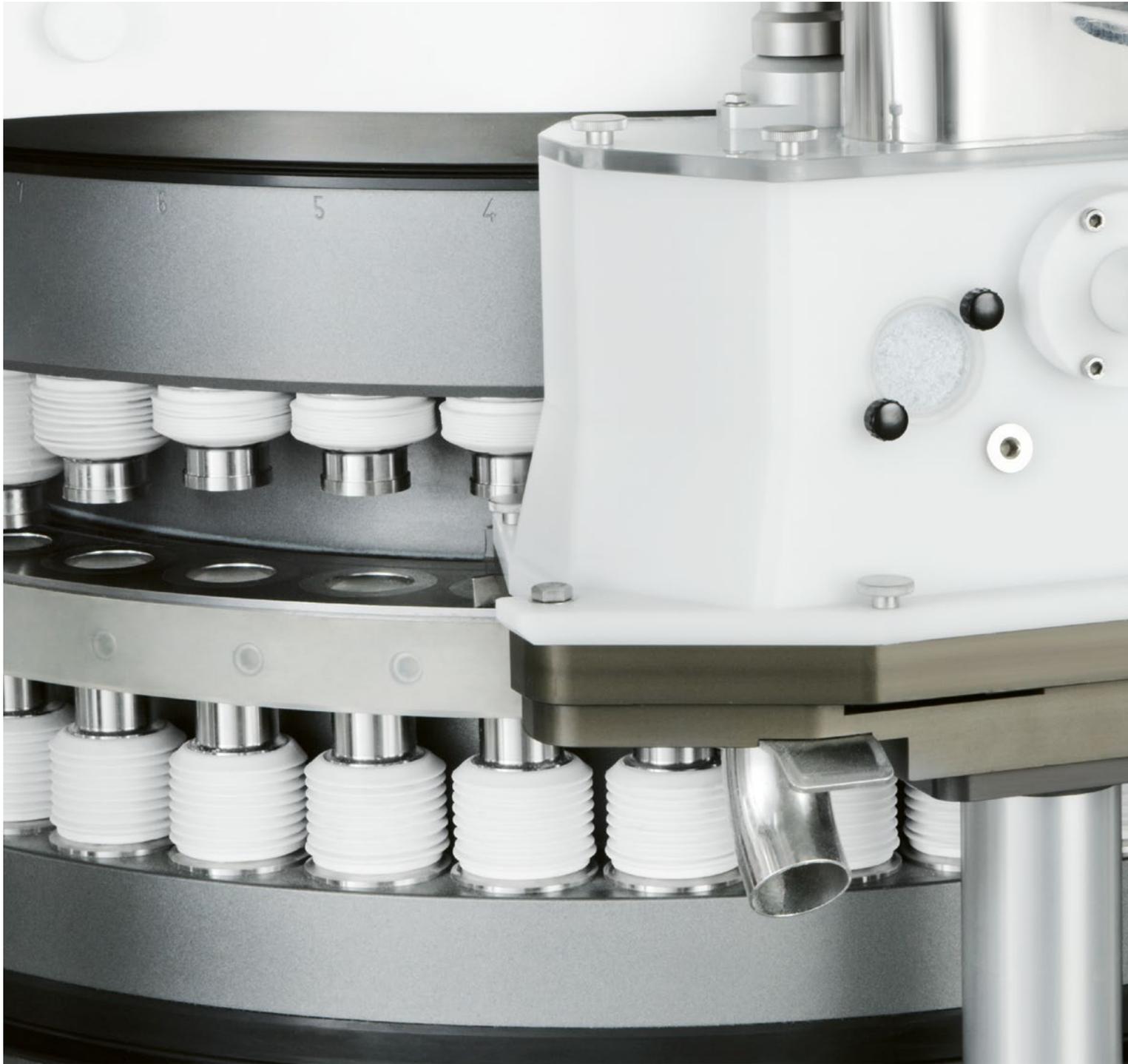
## STURDY STRUCTURE

PREXIMA's compression support is based on robust columns linked together by strong cast iron structures. The compression rollers are housed within these cast iron structures and supported on both sides. This exceptionally robust structure – an essential requisite for high-quality tablets – guarantees both pre-compression and main compression forces up to 100 kN as standard, and 120 kN upon request, with maximum reliability.

PREXIMA reliably compresses even the most challenging products, like salt or detergents. In particular, dedicated surface treatment is selected to make the processing parts resistant to product corrosiveness, solving any typical criticalities of this application.









# EFFICIENCY

PREXIMA features several technical solutions for high-speed tableting of detergents, salt tablets, chlorine tablets, catalysts, pesticides, fertilizers just to mention a few.

Highly efficient die feeding is a must when processing poorly flowing products or manufacturing big tablets at high speed: a wide range of die feeders and paddles have been designed for handling any substance. Compaction and dwell time are also key factors: they allow more time for the ejection of the air contained in the powder blend and for the bonds between the particles to form. Here the 250 mm pre and main compression rollers mounted on PREXIMA really make the difference, as well as the new IMA 32T tooling, featuring a larger punch head.

The PREXIMA high-yield motorisation minimises heat production in the lower compartment, being the ideal solution for low-melting or heat-sensitive products. Low-temperature tableting maintains blend flowability at die feeding, prevents product sticking to punches and dies and preserves tablet quality.

# FLEXIBILITY

PREXIMA can process a wide range of tablet shapes and dimensions: compression tooling can be easily replaced, making it possible to process different tablet sizes on the same machine or to change current tablet design to enhance marketing differentiation. The interchangeable die table makes it easy to find the best configuration in terms of tablet size and output. On PREXIMA 800 and 800T, bilayer tablets can be manufactured. A future-proof solution.





THE BEST SOLUTION TO HANDLE ALL POWDERS

- DEDICATED FEEDERS AND PADDLES
- PUNCH TIPS WITH SPECIAL TREATMENT OR WITH AN INSERT
- EXTERNAL LUBRICATION SYSTEM

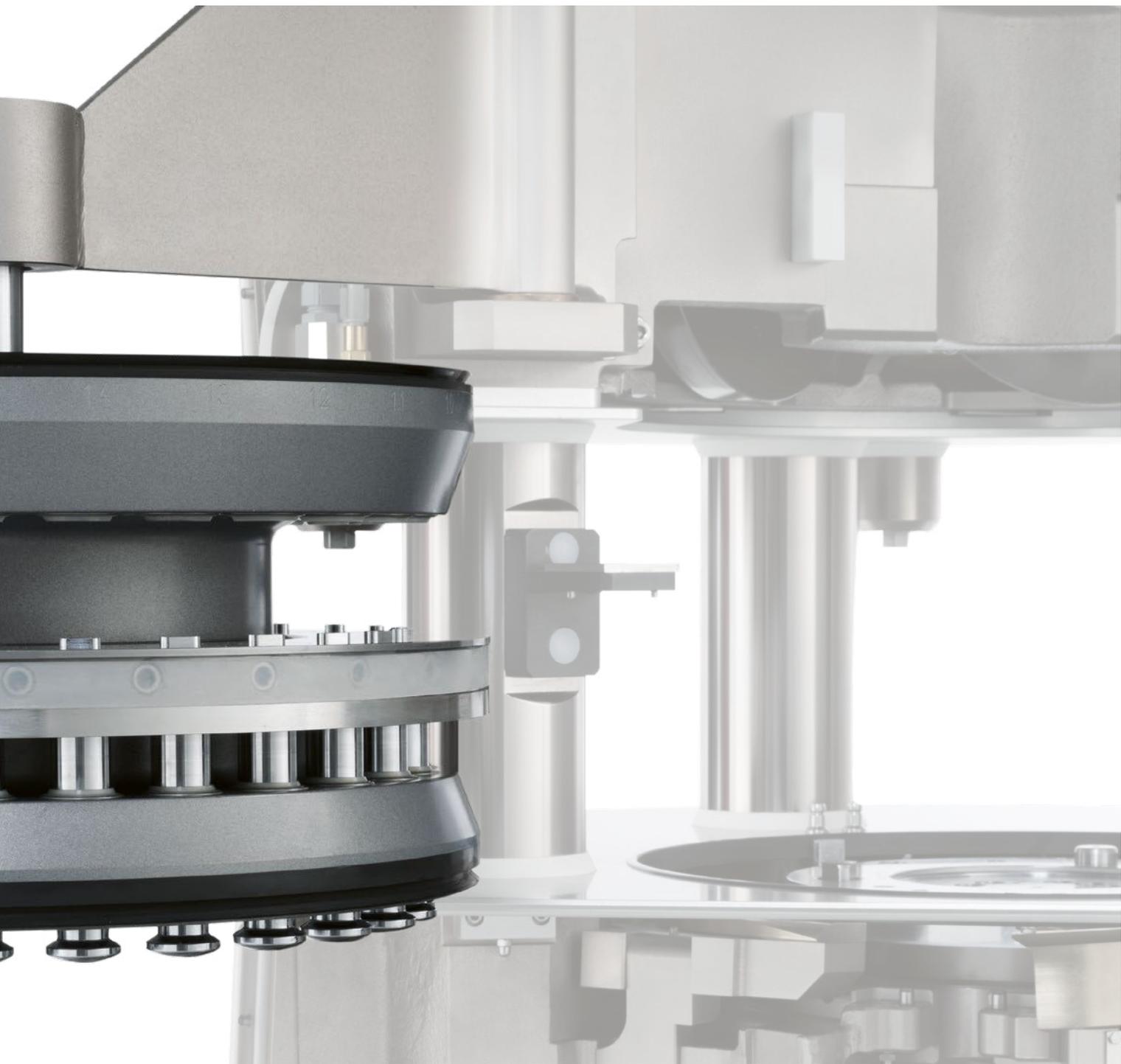
# ENHANCED USER EXPERIENCE

Smart design means great accessibility. The processing area is fully accessible once the external doors are opened, while access to the machine basement is required only for maintenance. Limited surfaces in contact with the product reduce cleaning times.

The turret can be lifted and extracted from the processing area, allowing quicker cleaning and maintenance operations. The HMI guides the operator step by step during each phase of turret extraction.

PREXIMA is fitted with sealing on the machine doors, sound-proof panels and anti-vibration feet to keep the noise level below 80 dB, thus enhancing the operator's wellbeing.





# ENHANCED USER EXPERIENCE

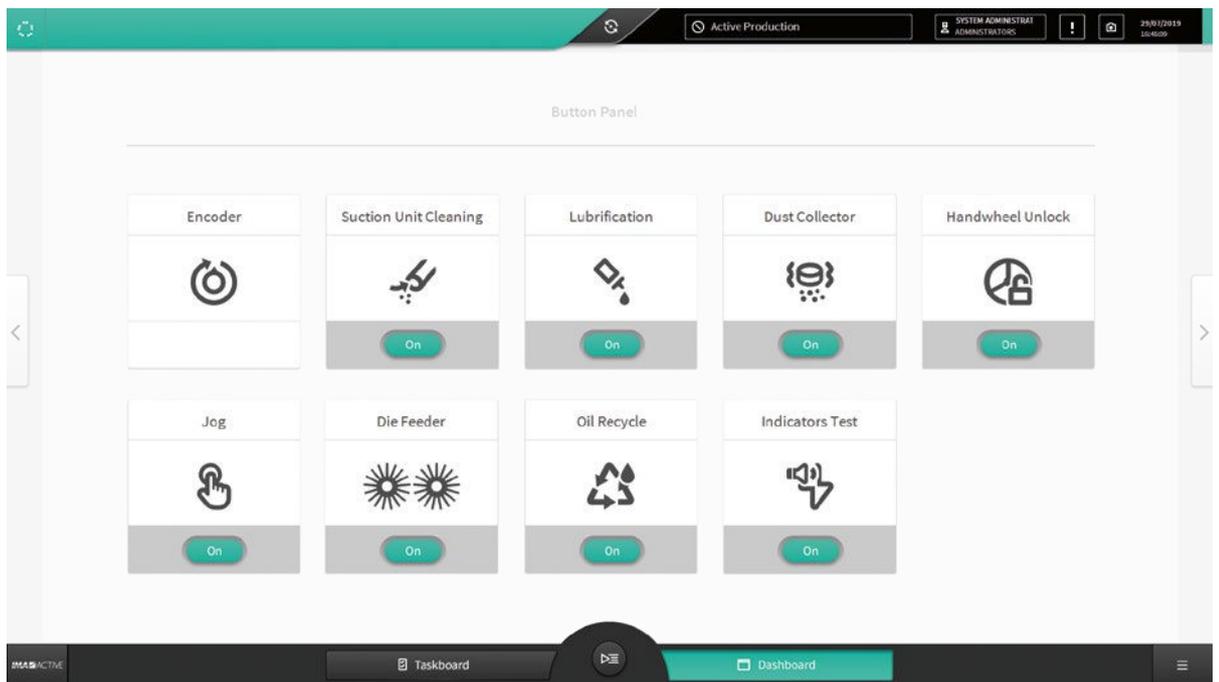
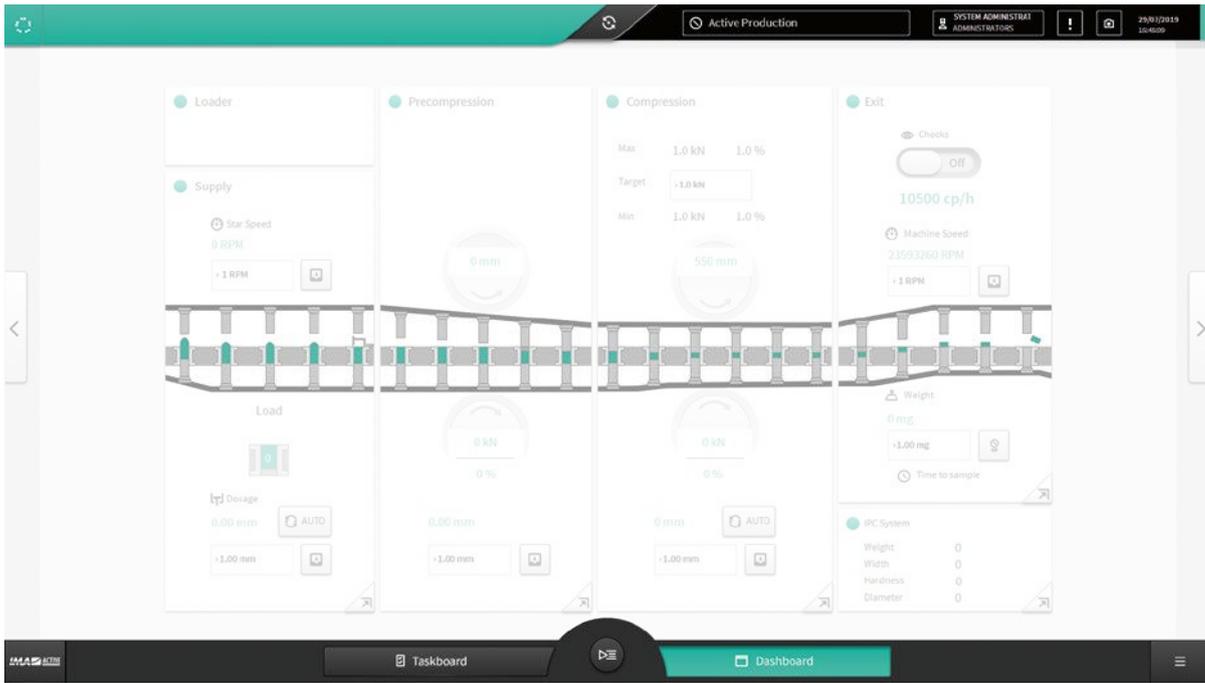
PREXIMA is fitted with MAX corporate HMI.

The synoptic plays a strategic role in improving operator efficiency:

- prompt responsiveness;
- enhanced productivity;
- easy learning.

A complete database of recipes can be stored in the PC and retrieved when necessary.





# A COMPLETE SOLUTION FROM ONE SUPPLIER

Besides PREXIMA presses, IMA can offer a complete range of equipment for personal and home care requirements, from primary to secondary packaging and up to end-of-line.

- BLISTER PACKAGING
- FLOW-WRAPPING AND FILM SHRINKING
- COUNTING AND WEIGHING SYSTEMS
- BOTTLE OR BOX FILLING
- POUCHES AND DOYPACK FORMING, FILLING AND SEALING
- LABELLING
- SHRINK WRAPPING AND STRETCH BANDING
- TRAY PACKING AND CASE PACKING
- PALLETIZING



# IMA ACTIVE COMPETENCE CENTER

The IMA Active Competence Center leverages the know-how and experience gained over the past five decades to help companies accelerate the R&D development process, optimise and customise production processes and conduct trials in an innovative way.

As a specialised unit devoted to fostering and developing expertise in processing solutions, the IMA Active Competence Center serves as a centralised hub for knowledge and resources, providing support, training and guidance to individuals or teams working within that domain. The IMA Active Competence Center collaborates closely with all IMA Active technical departments to drive innovation, improve processes and maintain a competitive edge in continuous innovation.

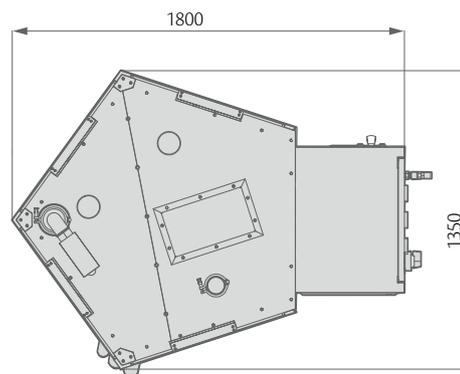
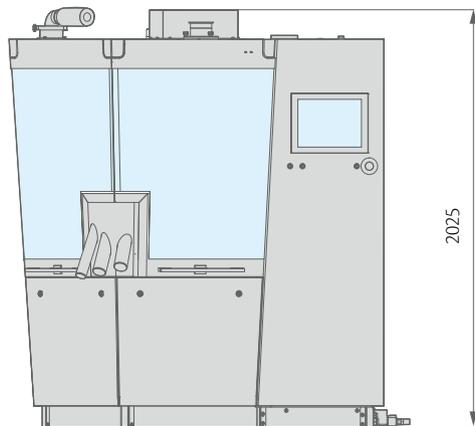
TEST, DEVELOP AND OPTIMISE. THAT'S WHAT WE DO TOGETHER:

- process implementation
- feasibility study
- formulation development support
- up and down-scaling
- technology transfer
- machine start-up
- troubleshooting
- training

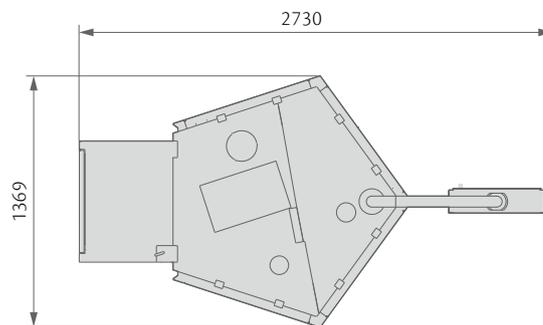
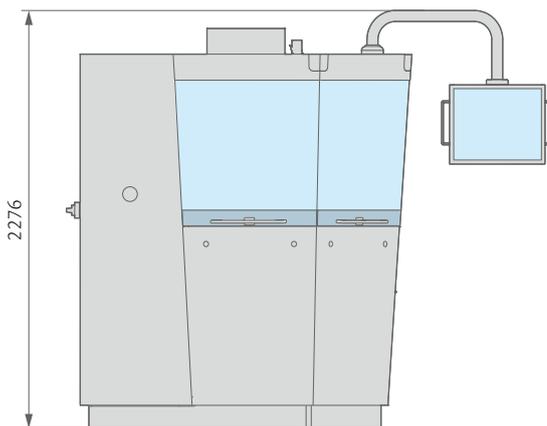


# TECHNICAL DATA

PREXIMA 300

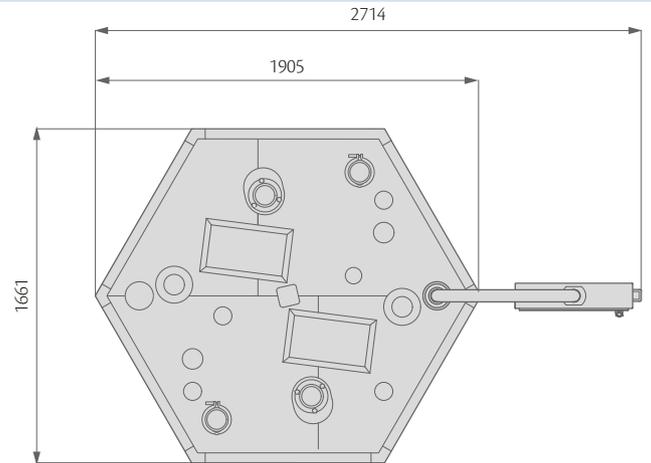
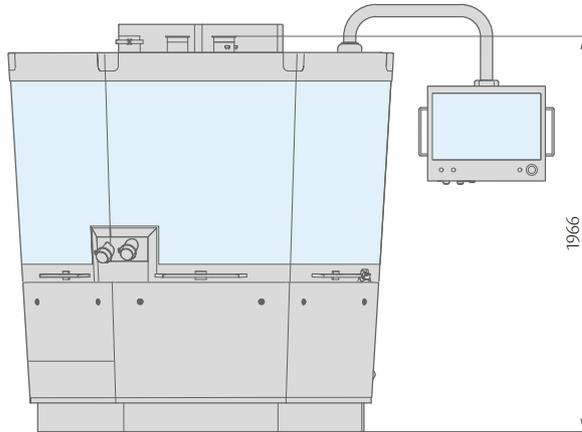


PREXIMA 300T

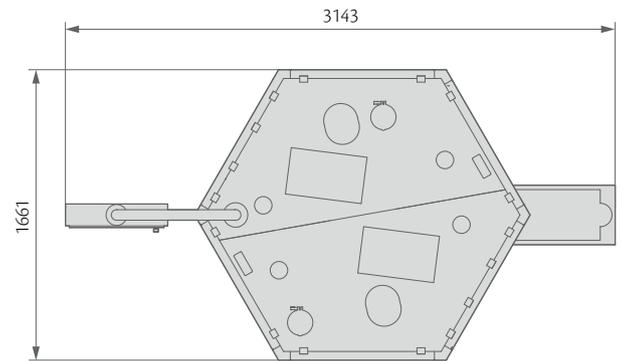
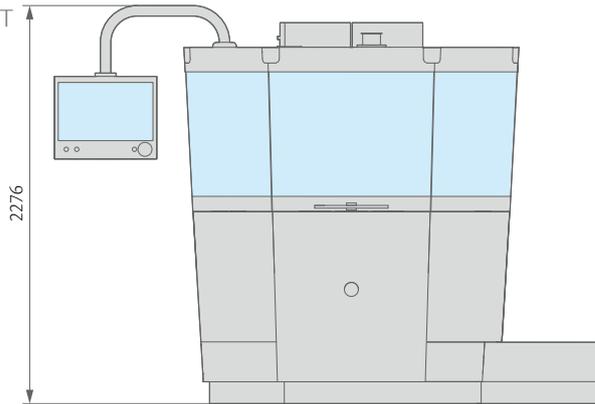


	PREXIMA 300					PREXIMA 300T	
	IMA 32	D	B	BB	IMA 8	IMA 32T	
Tool type (EU and TSM)	IMA 32	D	B		IMA 8	IMA 32T	
Maximum tablet diameter (mm)	39	25	16	13	10	39	49
Number of press stations	18	27	33	41	55	20	18
Maximum output (tbl/min)	1,620	3,240	3,960	4,920	6,600	1,800	1,620
Maximum speed (rpm)	90		120			90	
Maximum die filling (mm)	24			19		40	
Maximum tablet thickness (mm)	1.5-12			1.5-10		20	
Maximum pre-compression force (kN)				100			
Maximum compaction force (kN)				100			
Electrical power requirement (kW)				14			
Standard voltage	400 V (+/- 10%) 50-60 Hz						

PREXIMA 800



PREXIMA 800T



	PREXIMA 800				PREXIMA 800T	
Die type	D	B	BB	IMA 8	IMA 32T	
Tool type (EU and TSM)	D	B		IMA 8	IMA 32T	
Maximum tablet diameter (mm)	25	16	13	10	39	
Number of press stations	53	65	81	105	39	
Maximum output (tbl/min) monolayer	9,540	11,700	14,580	21,000	3,900	
Maximum output (tbl/min) bilayer	4,770	5,850	7,290	10,500	1,950	
Maximum speed (rpm)		90		100	50	
Maximum die filling (mm)	20		19		40	
Maximum tablet thickness (mm)		1.5-10			20	
Maximum pre-compression force (kN)				100		
Maximum compaction force (kN)				100		
Electrical power requirement (kW)				27		
Standard voltage				400 V (+/- 10%) 50-60 Hz		

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