

TABLETING FOR CONFECTIONERY



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PREXIMA 80
FOR R&D OR
SMALL BATCHES



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 CONFECTIONERY

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.

- EFFICIENCY
- FLEXIBILITY
- RELIABILITY
- ENHANCED USER EXPERIENCE









EFFICIENCY

PREXIMA features several technical solutions for high speed tableting of pressed sweets, not only candies but also chewing gums.

A wide range of feeding systems has been designed for the high-efficiency feeding of powders with the most diverse characteristics. High flowability blends like sorbitol based recipes, low flowability blends and wet masses such as milk powder blends, powders with a tendency to segregate, such as recipes enriched with sugar crystals, to mention a few: with a suitable feeding system, all of them can be processed at high speed.

Compaction and dwell time are also important factors when high speeds need to be reached. 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.

The high-yield motorisation minimises heat production in the lower compartment. This is the ideal solution for low melting products like many sugar-based blends, and for heat-sensitive ingredients such as vitamins, minerals, probiotics which further enrich pressed sweet recipes.

Low temperature tableting maintains blend flowability at die feeding, prevents the product sticking to punches and dies, while preserving pressed sweets quality and the effects of functional ingredients.



FLEXIBILITY

PREXIMA can process a wide range of pressed sweets shapes and sizes on the same machine.

Simply replace compression tooling to change to a different size of the same pressed sweets or to a different design to enhance marketing differentiation.

On PREXIMA 800, bilayer candies and chewing gums 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

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 with maximum reliability. Ideal also for effervescent blends.





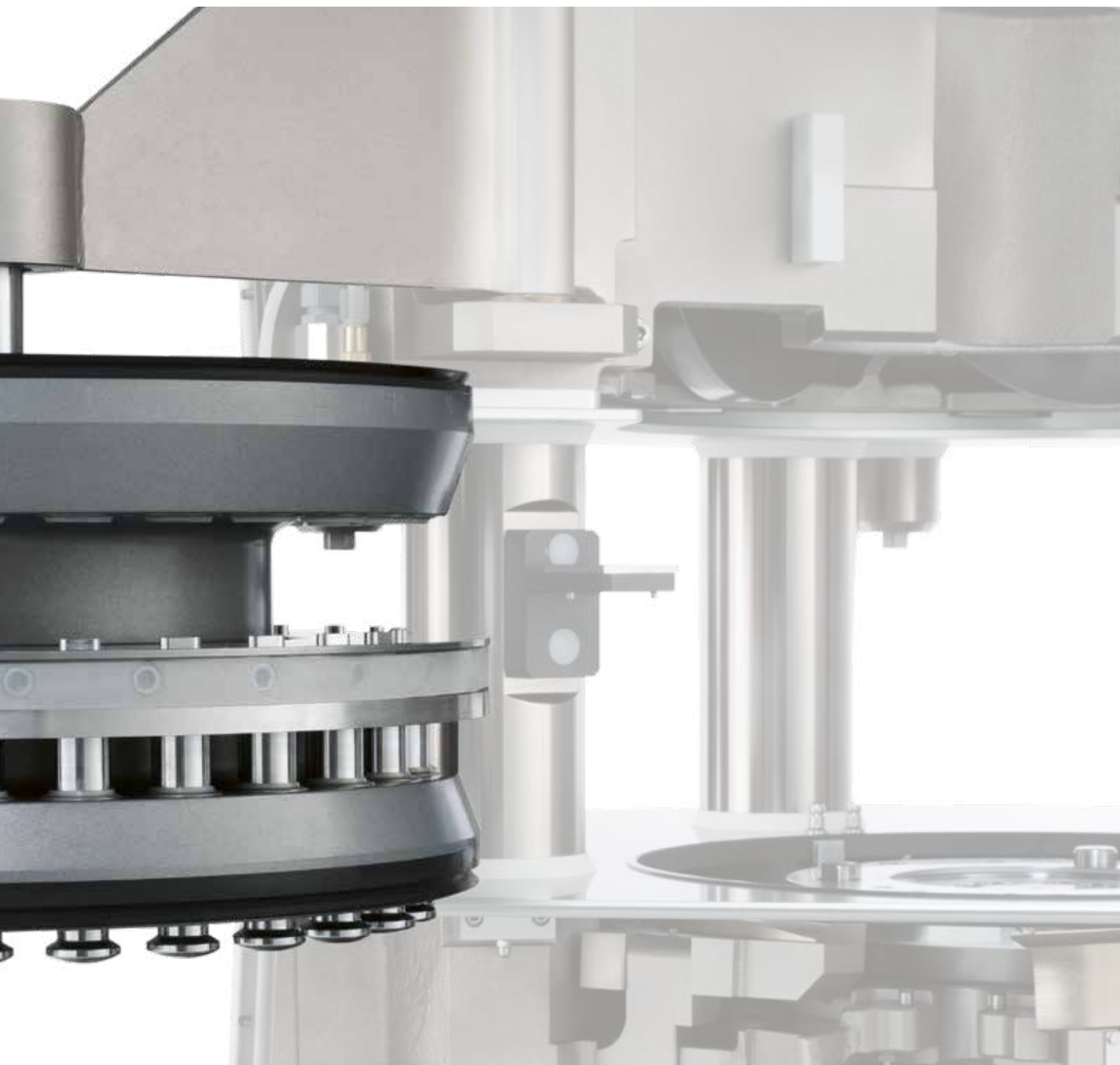
ENHANCED USER EXPERIENCE

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

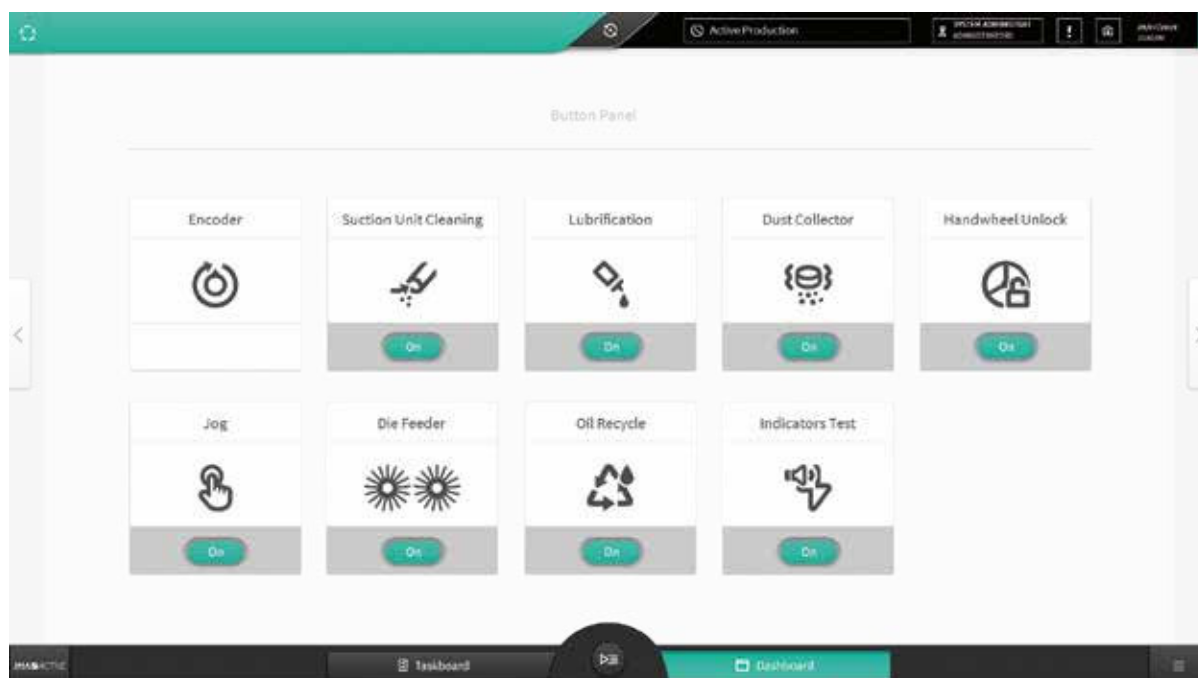
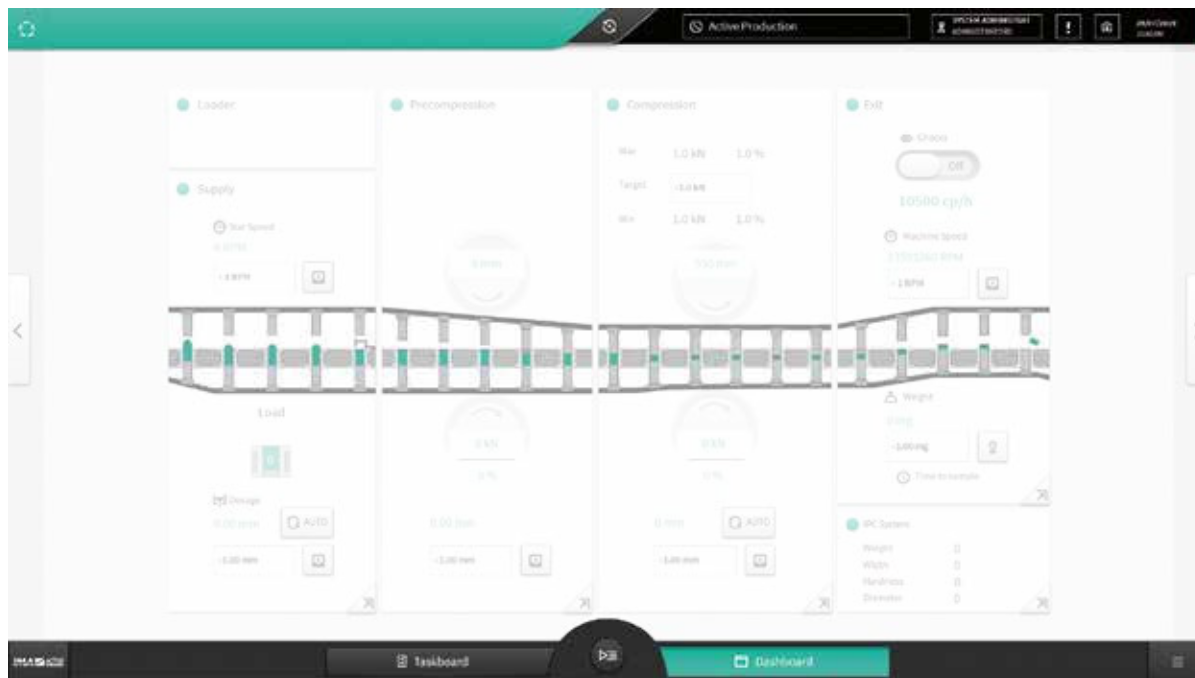
PREXIMA is fitted with MAX corporate HMI.

The synoptic plays a strategic role in improving operator's efficiency:

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

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





STAND-ALONE OR IN-LINE CONFIGURATION

Besides to its stand-alone configuration, PREXIMA can also be connected in-line for direct feeding to downstream packaging equipment. As an option, a conveying system can be fitted inside the processing area of PREXIMA 800 and 800T to carry all tablets to the same exit side, making for an extremely compact footprint.



IMA LABORATORY

The IMA Active Laboratory Team is always at the customer's side in every phase of the project both at the R&D Laboratory and at the customer's site.

IMA laboratory includes 20 test rooms with a controlled environment, managed by qualified chemists assisted by specialist engineers. The team understands the customer process and provide instructions and best practices to leverage our technology for improved product quality, maximum equipment reliability, and high production efficiency.

MAIN ACTIVITIES:

- product technological characterization
- feasibility study
- process engineering and consultancy
- assistance for process start-up
- product and process optimization
- process and cleaning validation
- technology transfer
- up and or down scaling



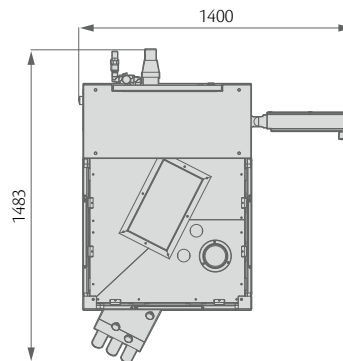
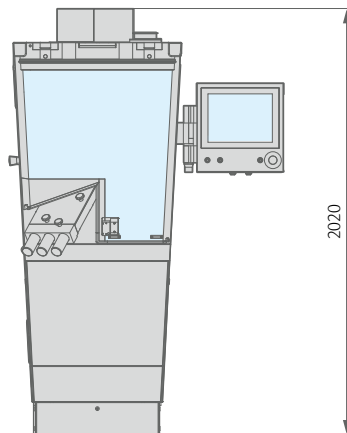
TECHNICAL DATA

	PREXIMA 80			
Die type	B+D	D	B	BB
Tool type (EU and TSM)	B+D	D	B	B
Number of press stations	4+4	13	16	19
Maximum tablet diameter (mm)	16+25	25	16	13
Maximum die filling (mm)	18			
Maximum output (tbl/min)	340	1,105	1,360	1,615
Maximum speed (rpm)	85			
Maximum pre-compression force (kN)	10			
Maximum compaction force (kN)	60			
Electrical power requirement (kW)	7.5			
Standard voltage	400 V (+/- 10%) 50-60 Hz			

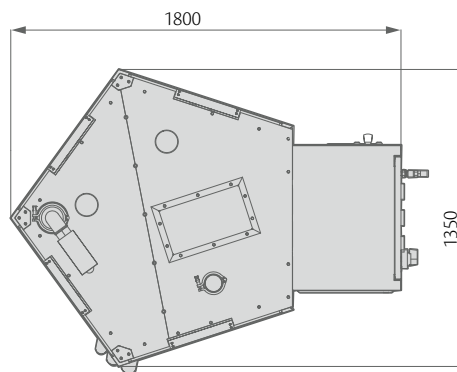
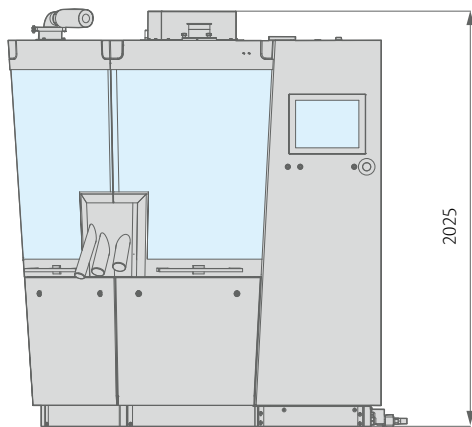
	PREXIMA 300					PREXIMA 300T	
Die type	IMA 32	D	B	BB	IMA 8	IMA 32T	
Tool type (EU and TSM)	IMA 32	D	B		IMA 8	IMA 32T	
Maximum tablet diameter (mm)	39	25	16	13	10	39	49
Number of press stations	18	27	33	41	55	20	18
Maximum output (tbl/min)	1,620	3,240	3,960	4,920	396,000	1,800	1,620
Maximum speed (rpm)	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
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				

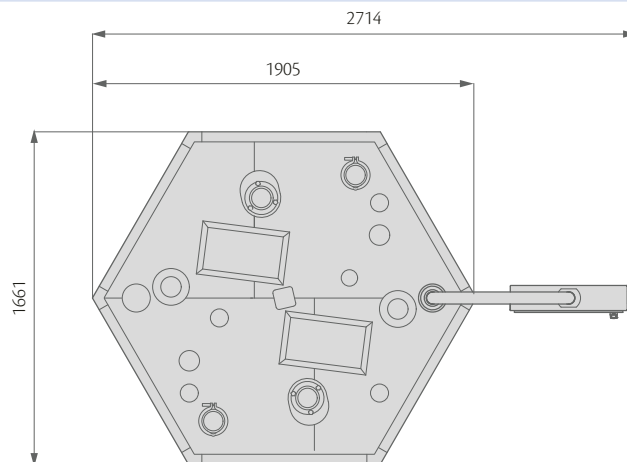
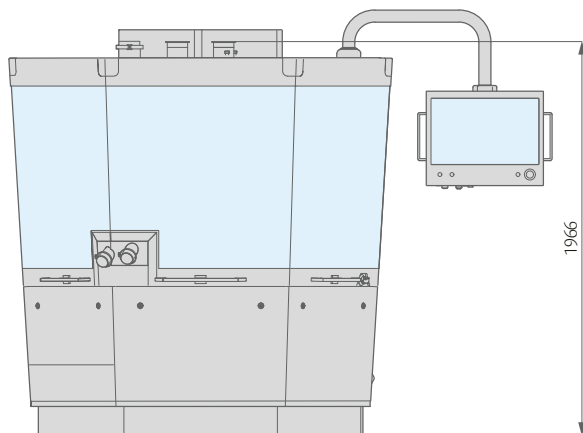
PREXIMA 80



PREXIMA 300



PREXIMA 800



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