PREXIMA THC

HIGH CONTAINMENT TABLET PRESS



SAFETY IN CONTAINMENT

PREXIMA THC IS SUITABLE FOR R&D APPLICATIONS, PILOT BATCHES AND PRODUCTION SUPPORT.





ACCESSIBILITY AND EASY HANDLING

The production area has excellent accessibility thanks to the large hood specially designed to make all operations very easy. The mechanical area is fully accessible for maintenance by simply opening the external casing. The HMI guides the operator step by step during disassembly procedures.

TURRET REMOVAL PHASES

- Product hopper, die feeder and dust extraction unit are removed
- Upper cam is removed and upper punches are taken out
- The turret with the dies is lifted and slid out of the press compartment

A special MIX turret version of 8 stations with 4 B and 4 D type tooling is available. Pre-compression and main compression rollers are designed for forces similar to production machines. This guarantees a good scale-up.

CONTROL SYSTEM

The machine is completely automated and is operated through an integrated PC with the innovative MAX HMI. All values are displayed on the control panel. The PREXIMA THC features the following automations:

- Lower compression force (upper compression force as an option)
- Tablet ejection force (optional)
- Pre-compression force (optional)
- Tablet scraping force (optional)
- In-Process Control (optional)
- Individual reject

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LIMITED SURFACES IN CONTACT WITH THE PRODUCT, SEALED DOORS AND NEGATIVE PRESSURE INSIDE THE PROCESSING AREA ENSURE BOTH OPERATOR AND ENVIRONMENTAL SAFETY.

ANDA

VI.



Machine door: deflated seal

Machine door: inflated seal



PROCESSING AREA DESIGN

The surfaces in contact with the product are limited, separating the processing and mechanical areas by means of V-ring and O-ring seals.

The processing area is enclosed inside an integrated hood with stainless steel structure and hinged doors, and includes the whole turret together with the compression rollers guaranteeing maximum accessibility for operator intervention.

Negative pressure inside the processing area guarantees both environment and operator safety. Access to the internal part of the machine is achieved by using the glove ports fitted on the machine doors.



CONTAINED PRODUCT FEEDING AND EJECTION

The powder hopper is fitted with a tri-clamp connection, making it possible to install a containment valve for safe product transfer from a container to the machine.

The exit chute has been designed with three channels, one for product sampling, one for rejected tablets and one for good tablets. Sampling outlet can be connected to an automatic IPC device or an endless liner which is applied also to collect rejected tablets. Good tablets outlet can be connected to dedusting or metal-detection unit, before collection.

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Round corners of the isolator

Spray gun inside the processing area

WETTING

The inner corners of the isolator are curved to facilitate washing operations. A lance is also available for aspiration cleaning of residual powder prior to the washing phase.

The preliminary wetting is carried out by a mobile spray gun placed inside the isolator and a spray nozzle positioned in the powder hopper. It is then possible to open the doors for final manual cleaning. Size parts can be dismantled and washed off-line.



TECHNICAL DATA



Die type	B+D	D	В	BB
Tool type (EU and TSM)	B+D	D	В	В
Number of press stations	8 (4+4)	13	16	19
Maximum tablet diameter (mm)	16 - 25	25	16	13
Maximum die filling (mm)	18			
Maximum output (tablets/hour)	20,400	66,300	81,600	96,900
Revolution per minute (min ⁻¹)	10 - 85			
Maximum pre-compression force (kN)	10			
Maximum compaction force (kN)	60			
Maximum installed power (kW)	6.9			
Standard voltage	400 V (+/- 10%) - 50 Hz			
Pitch circle diameter (mm)	180			





