

PROTAB 300

Tableting Simplified



THE NEW TABLETING PLATFORM

HIGHER OEE – THE RISING DEMAND OF PHARMACEUTICAL INDUSTRY

The pharma industry today is governed by high standards of quality and productivity. Increasing demands have led to a strong focus on OEE - The Overall Equipment Efficiency which is based on maximum up time, reliability and user friendliness. There is still scope to simplify the time consuming process steps involved in operating a tablet press which will lead to enhanced productivity and OEE.

Protab - the new tableting platform is the result of extensive market research and value stream mapping of the prevailing compression process in the industry .

The Protab 300, a single rotary press suitable for small and medium batch production, simplifies many aspects of the prevalent tableting processes including setup, operation, changeover, cleaning, interfacing as well as the maintenance and validation of the equipment

Experience the new tableting platform....

MACHINE SETUP – SIMPLIFIED

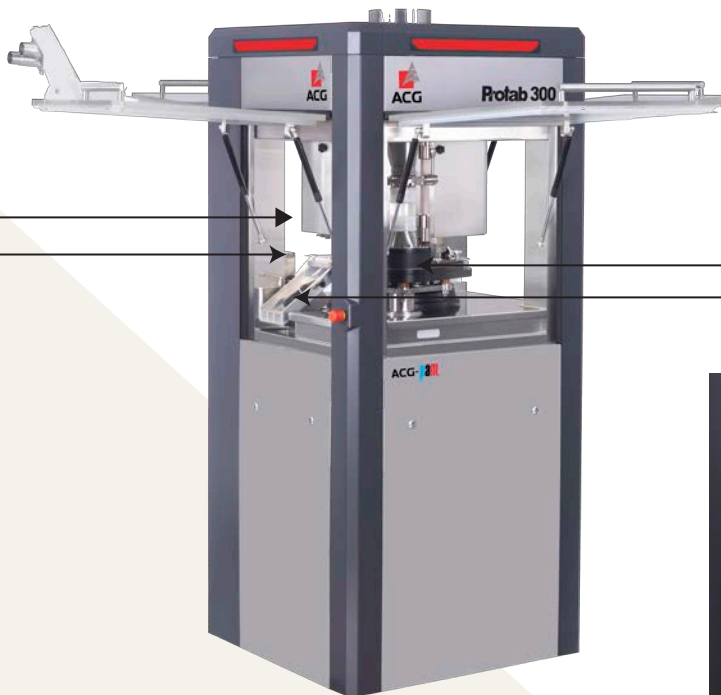
New dust extraction system

- ◆ Slide in - Slide out design
- ◆ Wider coverage
- ◆ Highly effective for die table and tooling
- ◆ Throttling to adjust vacuum levels



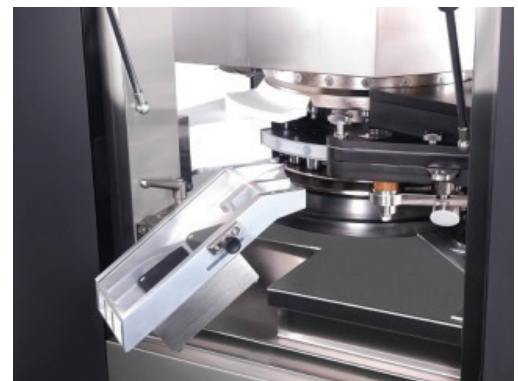
Simplified feeder assembly

- ◆ Dismantle, clean and reassemble back in a flash
- ◆ Innovative paddle design for minimal product loss
- ◆ Lightweight for easy handling



Turret setup simplified

- ◆ Setup in less than 10 minutes
- ◆ Auto initial lubrication
- ◆ Setup and operation without handweel



New exit chute assembly

- ◆ Swing in - Swing out design
- ◆ Instant dismantling for washing
- ◆ Setup in less than one minute
- ◆ 3 channel design for good, bad and sampled tablets
- ◆ Unique design free of wires and tubes

MACHINE OPERATION – SIMPLIFIED

Digitally aided height adjustment

- ◆ Feeder height adjustment in steps of 10 microns
- ◆ Height displacement value displayed on the IPC
- ◆ Easily adjustable externally

Precise weight control

- ◆ Accurate single sorting even at rated RPM
- ◆ Pharmazone design free of wires and tubes
- ◆ Servo based AWC system

Higher yield & Productivity

- ◆ Feeder leftover less than 50 gms
- ◆ The new paddle design without dead zones
- ◆ Intelligent 'batch over' detection system

Latest EHS compliances

- ◆ Noise less than 80dB
- ◆ CE compliance
- ◆ Process & safety interlocks
- ◆ Anti-vibration design

instAmend™ Advantage

- ◆ Instant detection of faulty punch during running
- ◆ Identifies the tool causing edge chipping & sticking
- ◆ Eliminates long process interruptions



CHANGEOVER AND CLEANING – SIMPLIFIED

Mechanical changeover

- ◆ In less than 30 minutes
- ◆ Instant removal of peripherals
- ◆ Lightweight assemblies
- ◆ Modular design of peripheral assemblies



Easier to clean

- ◆ Faster batch-to-batch changeover
- ◆ Minimum efforts for change over
- ◆ More available time for production
- ◆ More optimized plain areas - just wipe off

Pro-cabling

- ◆ Professional cable routing
- ◆ Configured for easy access and cleaning
- ◆ Swing out electrical junction box
- ◆ No wires or tubes in pharmazone

360° Accessibility

- ◆ Easy access from all sides
- ◆ Optimal spacing of components
- ◆ Well lit pharma zone



HUMAN MACHINE INTERFACE– SIMPLIFIED

Smart industrial PC interface

- ◆ 19" multi-touch HD display with graphics
- ◆ Latest multi touch operating interface
- ◆ Fully compliant with 21CFR Part 11 regulations
- ◆ Multi-level password, documentation, reports,
- ◆ Recipes & batch management
- ◆ Animated compression cycle display
- ◆ Parameters grouping
- ◆ Remote trouble shooting



Easy maintenance

- ◆ Tool life cycle management
- ◆ Built in operating manuals
- ◆ Maintenance SOP & Tracker
- ◆ E-Plan
- ◆ Spares parts manual
- ◆ Intuitive calibration calendar
- ◆ Video SOPs and Training modules



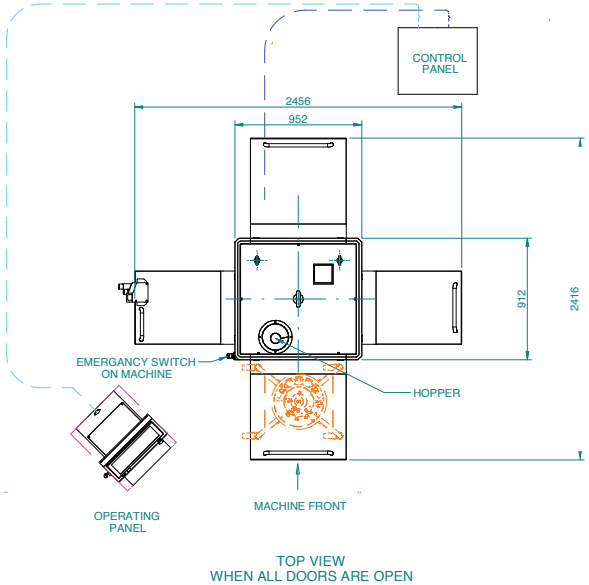
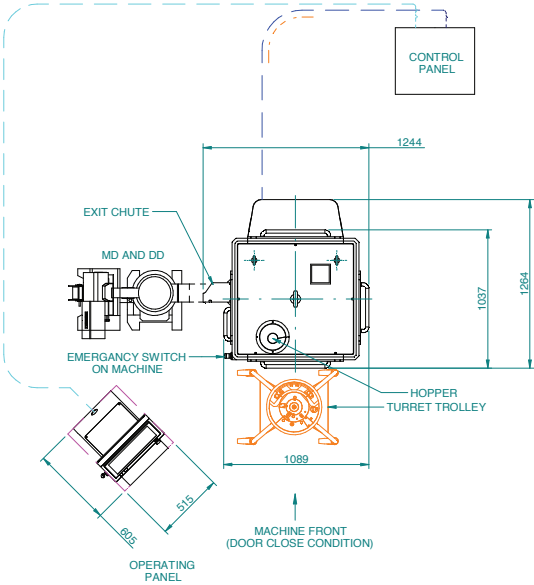
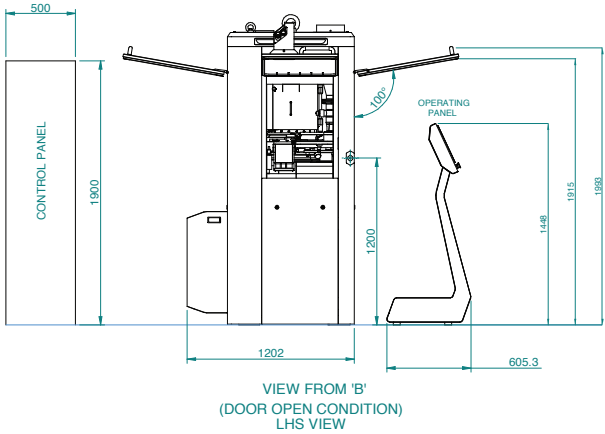
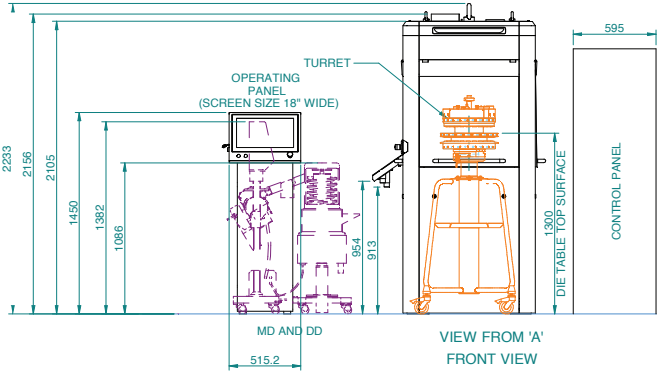
User friendliness

- ◆ Fill depth calculator
- ◆ Batch timer
- ◆ In-Built yield report calculation
- ◆ Manage operations with just 12 key parameters

Validation ease

- ◆ High precision components
- ◆ Analysis of rejected tablets
- ◆ Real time trending of key parameters
- ◆ Individual force tracker
- ◆ Maintenance interlocking
- ◆ Calibration interlocking

MACHINE DIMENSIONS



TECHNICAL DATA

Tooling Standard	EU 1"	EU 19	EU 19	EU 19
Tooling Type	D	B	BB	BBS
Pitch Circle Diameter, mm	306			
No of Stations	21	27	34	36
Max RPM*	100	100	100	100
Min RPM*	15	15	15	15
Max Tablets / Hr*	126,000	162,000	204,000	216,000
Max Pre Compression Force, Kn	100	100	100	100
Max Main Compression Force, Kn (Single layer)	100	100	100	100
Upper Punch Penetration, mm (Single layer)	1 to 4	1 to 4	1 to 4	1 to 4
Main Pressure Roll Diameter, mm	230	230	230	230
Pre-Pressure Roll Diameter, mm	230	230	230	230
Max Tablet Diameter, mm	25	18	16	11
Max Filling Depth, mm	22	18	18	18
Max Tablet Thickness, mm	8.5			
Weight	2,800 Kg, Control Cabinet with IPC approx. 350 Kg			
Power Supply	415V AC \pm 5%, 3 Ph +N +E, 8*kW			
Machine Dimension, mm	1000 x 1200 x 2110			
19" Control Cabinet with 19" IPC Dimension, mm	600 x 500 x 1800			
Dry Compressed Air	250 lpm @ 6 kg/ sq. cm.			
Vacuum	11,327 lpm @ 10-12 mbar			

* Actual speed will depend on the physical properties of the formulation to be compressed.

NOTE: Machine specifications may be modified without notice.

About ACG-Pam

ACG-Pam has been pioneering newer and better pharma manufacturing technologies for over four decades. With a dedicated team for spearheading the design and development of class-leading technologies, ACG-Pam is constantly engaged in building a range of new products. From the Accura range of 100% checkweighers to the highly sophisticated ZRO range of capsule-filling machines to the robust and efficient range of tablet presses - ACG-Pam is driven by a passion for innovation and developing market-leading technologies. At the heart of these technologies is our state-of-the-art infrastructure to fabricate precision parts in-house. ACG-Pam is a part of ACG Worldwide, a leading integrated processing, manufacturing and packaging solutions provider for the global pharmaceutical industry.



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