

# Tablet Compression Solutions

## Product Data



# ALPHATAB 8/4+4c (Combi)

## Rotary Tablet Press

ALPHATAB Tablet Presses from AVE Technologies are based upon a proven design and is an ideal machine for R&D as well as small scale production.

This is due to its robust construction and durability, having a maximum compression force of 100kN and fitted with pre-compression and a rotary force feeder. They are manufactured to the highest standards and compliant with current GMP and CE standards

Available in two turret sizes giving an output of up to 52,800 tablets per hour (depending upon turret and tooling size).

### PLC Control

ALPHATAB machines feature a fully automatic control system together with a user-friendly touch screen HMI, making them machines very easy to operate.

They use an industrial PLC and all CE standard components to control the entire tablet press.

The HMI can be mounted on the machine front or in a mobile stand allowing the operator full flexibility to operate the press and providing a platform for optional data output and printing devices.

### Operator Access

ALPHATAB has four large top-hinged doors allowing easy access to all areas of the compression zone which also means easier cleaning and maintenance.

### Compact Design

ALPHATAB is one of the smallest rotary tablet presses of its type, requiring minimal space and easy installation.



**ALPHA TAB includes many standard features increasing performance and reliability, these features include:**

- Easy to maintain and operate
- Industrial PLC controls
- Hard chromium plated die table
- Pre-compression station
- Upper & Lower punch dust seals
- Adjustments are displayed on the operator HMI
- Batch counters and control



**Technical Specifications:**

	ALPHA TAB8	ALPHA TAB4+4C
No. of stations:	8	4+4
Tooling:	EU-D	EU-B+D
Die:	D	B+D
Tablets/hour max :	52,800	26,400
Turret rpm:		22-110
Tablet Ø max mm:	25	16 or 25
Irregular tablet max length mm:	25	19 or 25
Depth of Fill maximum mm:		18
Upper punch penetration:		1 to 4 mm
Pre-Compression max:		14 kN
Compression Force max:		100 kN
PCD:		265 mm
Turret finish:		Hard Chrome plated
Drives & Controls:		Inverter, PLC
Operator Interface:		10" TFT HMI Screen
Electrics:		380 V / 3ph / 50Hz / 3.0 amps
Overall dimensions		700 x 1000 x 1750 mm (D x W x H)
Weight:		1200 kgs

**Optional:**

Data package:	Output via USB
Compaction Force Monitoring:	via Load Cell
Powder Loading System	

*Other combination on request (D+B/7D+7B+7BB)*



# BETATAB 16/23/30

## Rotary Tablet Press

**BETATAB** series of tablet presses are ergonomically designed and of quality construction built to cGMP standards.

These durable and reliable machines combine the latest tablet machine technology with mechanical simplicity for ease of operation and maintenance.

Importantly, **BETATAB** machines are easy to clean and offer efficient tool change-over with disassembly and re-assembly of removable parts without the use of tools.

Available in three turret sizes they offer an output of up to 153,000 tablets per hour.

These presses offer a cost effective solution for all your tabletting requirements.

### **PLC Control**

**BETATAB** machines all feature a fully automatic control system together with user-friendly touch screen HMI, making them easy to operate. It uses an industrial PLC and all CE standard components to control the entire tablet press.

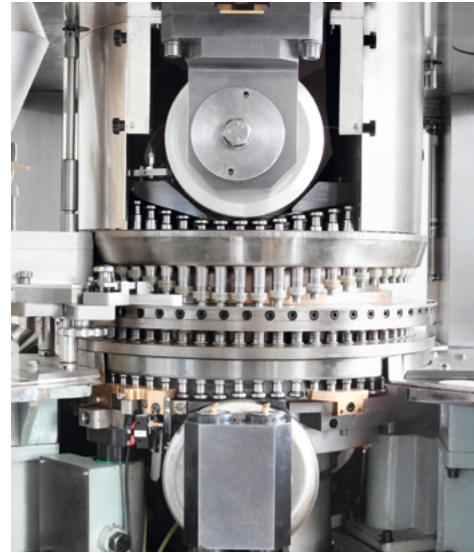
### **Operator Access**

Four large top-hinged doors swing up and open for complete access to all areas of the compression zone allowing easy cleaning and maintenance.



**BETATAB includes many standard features, increasing performance and reliability:**

- 10" colour TFT HMI touch screen
- Industrial PLC controls
- Compact design
- Inverter controlled rotary feeder with double paddles
- PLC controlled automatic lubrication system
- Pre-compression station
- Chromium plated die table
- Upper & Lower punch dust seals
- Synchronous motor adjustments via the HMI operator touch screen
- Batch counters and control
- Control of ancillary items, dedusters etc.



<b>Technical Specifications:</b>	<b>BETATAB16</b>	<b>BETATAB23</b>	<b>BETATAB30</b>
No. of stations:	16	23	30
Tooling:	EU-D	EU-B	EU-BB
Die:	D	B	BB
Tablets/hour max :	105,000	151,000	198,000
Turret rpm:		22-110	
Tablet Ø max mm:	25	16	13
Irregular tablet max length mm:	25	19	16
Depth of Fill maximum mm:		18	
Upper punch penetration:		1 to 4 mm	
Pre-Compression max:		14 kN	
Compression Force max:		100 kN	
PCD:		265mm	
Turret finish:		Hard Chrome plated	
Drives & Controls:		Inverter, PLC	
Operator Interface:		10" TFT HMI Screen	
Electrics:		380 V / 3ph / 50Hz / 5.5kw	
Overall dimensions		700 x 1000 x 1750 mm (D x W x H)	
Weight:		1200 kgs	



# DELTA**TAB**26/32/40

## Rotary Tablet Press

The DELTA**TAB** series of tablet presses are ergonomically designed and of quality construction built to cGMP standards.

Importantly, DELTA**TAB** machines are easy to clean and offer efficient tool change-over with disassembly and re-assembly of removable parts without the use of tools.

Available in three turret sizes they offer an output of up to 204,000 tablets per hour).

These presses offer a cost effective solution for all your tableting requirements.

### PLC Control

DELTA**TAB** machines all feature a fully automatic control system together with user-friendly touch screen HMI, making them easy to operate. It uses an industrial PLC and all CE standard components to control the entire tablet press.

### Operator Access

Four large top-hinged doors swing up and open for complete access to all areas of the compression zone allowing easy cleaning and maintenance. There is no hand wheel operation, and tablet measurements can be adjusted with high precision to an accuracy of 0.01mm.





**The DELTA TAB series includes many standard features, increasing performance and reliability:**

- 10" colour TFT HMI touch screen
- Industrial PLC controls
- Compact design
- Inverter controlled rotary feeder with double paddles
- PLC controlled automatic lubrication system
- Pre-compression station
- Chromium plated die table
- Upper & Lower punch dust seals
- Synchronous motor adjustments via the HMI operator touch screen
- Batch counters and control
- Control of ancillary items, dedusters etc.

**Technical Specifications:**

	DELTA TAB26	DELTA TAB32	DELTA TAB40
No. of stations:	26	32	40
Tooling:	EU-D	EU-B	EU-B
Die:	D	B	BB
Tablets/hour max:	171,000	211,000	264,000
Turret rpm:		22-110	
Tablet Ø max mm:	25	16	13
Irregular tablet length max mm:	25	19	16
Depth of Fill maximum		18 mm	
Upper punch penetration:		1 to 4 mm	
Compression Force max:		100 kN	
PCD:		370 mm	
Turret finish:	Hard Chrome plated		
Drives & Controls:	Inverter, PLC		
Operator Interface:	10" TFT HMI Screen		
Electrics:	380 V / 3ph / 50Hz / 7.5kw		
Overall dimensions:	820x1100x1750 mm (D x W x H)		
Weight:	1600 kgs		



# OMEGA**TAB**51/65/83

## Rotary Tablet Press

OMEGA**TAB** series of tablet presses are the top level in the AVE tableting series. They offer large diameter, high pressure, highly accurate and fast tableting.

The OMEGA**TAB** range can press two layer tablets with different colours, annular, engraved and irregular tablets. Ideal for pharmaceutical, food and chemical applications.

They offer the highest productivity speeds and operation with double-sided discharge chutes.

There is a separate control cabinet to operate the machines, ensuring safety for the operator and sanitary production.

### Force-feeder

OMEGA**TAB** machines all feature force-feeding capability to control the flow of powder and ensure accuracy of feeding. This means there is no 'dead' area in the press chamber which is easily viewed and cleaned.

A mechanical support unit sustains main pressure and pre-pressure, and the press process is smooth with low noise levels. The machines are equipped with a protective unit to prevent over-loading. All are easily maintained and cleaned.



**OMEGA TAB includes many standard features increasing performance and reliability, standard features include:**

- 10" colour TFT HMI touch screen with real-time data
- Industrial PLC controls
- Exchangeable turret for cleaning and changeover improves efficiency
- Full servo control for high precision press roller and dosing adjustments (full servo is optional, dosing motor: servo motor: pre/main roller: synchronous motor)
- PLC controlled automatic lubrication system
- No hand-wheel operation
- Chromium plated die table
- Upper & Lower punch dust seals
- Servo motor adjustments via the HMI operator touch screen
- Batch counters and control
- Control of ancillary items, dedusters etc.



<b>Technical Specifications:</b>	<b>OMEGA TAB51</b>	<b>OMEGA TAB65</b>	<b>OMEGA TAB83</b>
No. of stations:	51	65	83
Tooling:	EU-D	EU-B	EU-BB
Die:	D	B	BB
Tablets/hour max :	489,600	624,000	796,000
Turret rpm:		8 - 80	
Tablet Ø max mm:	25	16	13
Irregular tablet length max mm:	25	19	16
Depth of Fill maximum mm:		20	
Length of punch mm:		133.6	
Pre-Compression max:		100 kN	
Compression Force max:		100 kN	
PCD:		720	
Turret finish:	Hard Chrome plated		
Drives & Controls:	Inverter, PLC		
Operator Interface:	10" TFT HMI Screen		
Electrics:	380 V / 3ph / 50Hz / 11kws		
Overall dimensions	1300 x 1300 x 2000 mm (D x W x H)		
Weight:	5500 kg		



# ANCILLARY EQUIPMENT

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## Automatic Tablet De-duster



Automatic Tablet Deduster, stainless steel construction with upward product conveying designed for dedusting and deburring through vibration, compressed air and dust extraction.

### Features

The AVE De-duster can handle a wide range of tablet sizes and throughputs. The product inlet and outlet positions can be rotated through 90° degrees to suit the application. The clear acrylic column allows permanent visual process control. It is mounted on a foot operated adjustable stand mounted on heavy duty castors with anti-vibration mounts.

### Technical Data:

Output	1,000,000 tablets/hr
Tablet size	25mm dia (maximum)
Inlet Height	845 – 1020mm
Discharge Height	1052 – 1227mm
Contact Parts	SS 316L
Other Parts	SS 304 and GMP approved material
Electrical	220V 1pH 50Hz N + E 0.15kW
Compressed Air	0.1MPa 0.1 m3/min
Dimensions	460 x 550 x 1295 - 1470 mm
Weight	70 kg





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### **AVE Technologies offer:**

Granulation System

Blenders & Mixers

Encapsulation Solutions

Tablet Compression

Coating System

Softgel Encapsulation

Counting Line

Blister Packing Solutions

Cartoning Packing Solutions

Checkweighing System

Cleanroom Design & Construction

All images are for illustrative purposes.  
Specifications are subject to regular  
updating. Please contact AVE Technologies  
for latest product details.

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