



TRIKAL ENTERPRISE

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Product Application

Pharmaceutical 

Cosmetic 

Dyes & Chemical 

 Mfg. of Pharma Machinery

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D4 TYPE



B4 TYPE



MINI PRESS



PRESS II



PRESS IV



MINI PRESS R&D MODEL

TABLE TOP SQUARE GMP SINGLE ROTARY TABLET PRESS
8 Stn. 'D', 10 Stn. 'B', 10 Stn. 'D' and 'B' Combo Tooling
SUITABLE FOR SINGLE LAYER TABLETS

SALIENT FEATURES

- Square GMP Table Top Model
- Paint free tablet manufacturing zone
- Turret of Special Grade S.G. Iron casting
- Aluminium Turret Guards Anti Vibrating mount.
- Upper punch penetration, as a standard features.
- Transparent Acrylic Guards with interlock.
- Electronic Digital Tablet cum RPM Counter, as a standard features.
- Imported needle roller bearing provided at the bottom of turret.
- Grease Nipples are provided for effective lubrication, where required
- Force Feeder, combination of D & B Tooling, PLC and etc. (Optionally)

TECHNICAL SPECIFICATIONS

TYPE	Mini-D	Mini-D	Mini-B
Number of Station	8	10	10
Type of Tooling (As per EU I)	D	D	B
Output-tablets/hour (Min / Max.)	4,800 / 14,400	6,000 / 18,000	6,000 / 18,000
Turret RPM (Min- Max.)	10 - 30		
Max. Operating pressure Main (kN)	60		
Max. Tablet Diameter (mm)	25	16	
Max. Tablet Thickness (mm)	8.5		
Depth of fill (mm)	20.50	17.50	
Upper punch entry Main (mm)	2 To 6		
Upper punch entry Pre-Compression (mm)	1 To 5		
Main Electric motor (kw/hp)	2.25 kW / 3 hp x 2800 RPM		
Hopper Capacity	4 Litres		
Overall dimensions (Close guard) cm	61 W x 84 L x 110 H		
Overall dimensions (Open guard) cm	145 W x 145 L x 143 H		
Case dimensions (cm)	96 W x 120 L x 125 H		
Net weight (kg)	Approx. 375		
Gross weight (kg)	Approx. 500		
Utilities:	1) Power Supply:-	(a) 415 V, 3 Phase, 50 Hz (b) 480 V, 3 Phase, 60 Hz (c) 220 V, 3 Phase, 60 Hz	
	2) Power-Total (kw/hp):-	2.25 kW / 3 hp	

* Depending upon material characteristic & available room atmosphere only.
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Pre-pressure and Main pressure could be changed depending on the size of the compress and filling depth, powder or granulation. It is dependent on the physical specification of the used material for the compress.

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It is Recommended not to use large depth of fill, minimum tablet thickness and maximum compression pressure for maximum performance consistently. Technical rights to change catalogues, specifications and features are reserved with the manufacturer. Actual output may vary against indicated output on the product under compression and RPM on lower side.



D4 TYPE

QUARE GMP SINGLE ROTARY TABLET PRESS

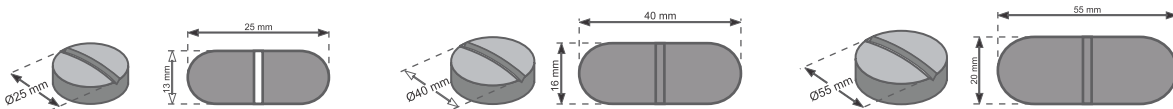
- 16 Stn. 'D', 20 Stn. 'B', 25 Stn. 'B'
- 8 Stn. & 'D', 12 Stn. Slugging Type (For veterinary Tablets) (40mm dia)
- 8 Stn. Slugging Type (For veterinary Tablets) (55mm dia)

SALIENT FEATURES

- Square Gmp Model.
- Machine is Having SG Iron casted Body & middle base.
- Paint free tablet manufacturing zone.
- Excellent And Operator Friendly Material Feeding System.
- Lower Guards of polished Stainless Steel SS 304.
- Upper Guards of transparent Acrylic material.
- Electronic / Digital, Tablet Cum RPM Counter.
- Turret of Special Grade S G IRON Casting.
- Lower Punch Wiper Seal to prevent lower Punch jamming
- Higher turret speed 17 to 42 RPM.
- Upper punch penetration system.
- Inter Lock Switches to all guards.
- Variable Speed Pulley.
- One Shot Lubrication System.
- Anti Vibration Mounts.
- Available with AC Variable Drive. (Optional)
- Available with force feeding attachment. (Optional)
- Available with PLC & Colour MMI touch screen.(Optional)

TECHNICAL SPECIFICATIONS

TYPE	D4-16	D4-20	D4-20	D4-23	D4-23	D4-8-SLG.	D4-12-SLG.
Number of Station	16	20	20	23	23	8	12
Type of tooling (As Per EU1)	D	D	B	B	DB	Slugging	
Output-tablets/hour (Min / Max.)	13440 / 40320	16800 / 50400	16800 / 50400	19320 / 57960	19320 / 57960	5,760 / 10,560	8,640 / 15,840
Turret RPM (Min./Max.)	14/42					12/22	
Max. Operating Pressure-Main (kN)	100					120	
Max. Tablet Diameter (mm)	25	25	16	16	16	40	
Max. Tablet Thickness (mm)	8.5					14	
Max. Depth of fill (mm)	20.5	20.5	17.5	17.5	17.5	30	
Upper punch entry	3 to 6.5mm					3 to 6.5mm	
Main Electric Motor (kW/hp)	2.2 / 3.0 x 1440 RPM					3.75 kW / 5.0 hp x 960 RPM	
Hopper Capacity	18 Litres					18 Litres	
Overall dimensions close guard-cm	91 W x 103 L x 184 H					91 W x 103 L x 184 H	
Overall dimension Open guard -cm	195 W x 195 L x 215 H					195 W x 195 L x 215 H	
Case dimensions - cm	126 W x 135 L x 205 H					126 W x 135 L x 205 H	
Net weight (kg)	1300 Kg.					1300 Kg.	
Gross weight(kg)	2100 Kg.					2100 Kg.	
Utilities :	1) Suction Air:-		150 CFM			1) Suction Air :- 150 CFM	
	2) Power Supply :-		(a) 415 V, 3 Phase, 50 Hz			2) Power Supply:- (a) 415 V, 3 Phase, 50 Hz	
			(b) 480 V, 3 Phase, 60 Hz			(b) 480 V, 3 Phase, 60 Hz	
			(c) 220 V, 3 Phase, 60 Hz			(c) 220 V, 3 Phase, 60 Hz	
	3) Power-Total (kw/hp) :-		2.2 kW / 3 hp			3) Power-Total (kw/hp): 3.75 kW / 5.0 hp	



Tablets dimensions shown as are as projection only. Images are not of actual dimensions.

B4 TYPE

SQUARE GMP DOUBLE ROTARY TABLET PRESS 27

Stn. 'D' Tooling, 27 Stn. 'B' Tooling,
35 Stn. 'B' Tooling, 45 Stn. 'BB' Tooling,



SALIENT FEATURES

- Double rotary tablet press
- Square design with comply cGMP standards
- All contact parts made of SS 316L material
- Speed up to 40 RPM
- 360° operational access
- All tablet parameters control from outside of tableting zone
- Plug & play design
- Bi-layer operation
- Double sided main compression roller –100kN capacity
- 3 steps Gearbox for higher torque
- Double hopper having-14 Liters capacity
- Gravity Feeding system
- Upper punch penetration up to 8mm
- AC variable Frequency drive for RPM control with Electromagnetic clutch
- Turret of special grade SGI cast iron with electro less nickel plating
- Lubrication port available for upper punch head, Barrel & Gearbox
- Manual Lubrication system
- Lower guard made of SS304 Material
- Electromagnetic clutch system for smooth start of turret & improve life of motor and gearbox
- Four side Upper Guard with safety interlock

TECHNICAL SPECIFICATIONS

TYPE	B4-27-D	B4-27-B	B4-35-B	B4-45-BB
Number of Station	27	27	35	45
Type of tooling (As Per EU1) Output-tablets/hour (Min / Max.)(Single Layer) Output-tablets/hour (Min / Max.)	D	B	B	BB
(Bi-Layer) Turret RPM (Min./Max.)	55,080 / 1,29,600	55,080 / 1,29,600	71,400 / 1,68,000	91,800 / 2,16,000
(Single Layer)	16,200 / 40,500	16,200 / 40,500	21,000 / 52,500	27,000 / 67,500
Turret RPM (Min./Max.)(Bi-Layer)	17 / 40	10 / 25		
Max. Operating Pressure-Main (kN)	100	65		
Max. Tablet Diameter (mm)	25	16	11	
Max. Tablet Thickness (mm)	8.5			
Max. Depth of fill (mm)	20mm	17.5mm		
Pressure Roll Diameter	8-1/2" (215.9mm)	8" (203mm)		
Upper punch entry Main	1.5 to 8mm			
Main Electric Motor (kW/hp)	5.5 Kw / 7.5 Hp x 1440 RPM		3.72 Kw / 5 Hp x 1440 RPM	
Hopper Capacity	15 Litres			
Overall dimensions close guard-cm	112 W x 120 L x 179 H			
Overall dimension Open guard -cm	189 W x 205 L x 206 H			
Case dimensions - cm	132 W x 153 L x 210 H			
Net weight (kg)	1400 Kg.			
Gross weight(kg)	1800 Kg.			
Utilities :	1) Suction	150 CFM (Qty. - 01 for Single Layer)		
	Air:-	150 CFM (Qty.- 02 for Bi Layer)		
	2) Power Supply	(a) 415 V, 3 Phase, 50 Hz		
	:-	(b) 480 V, 3 Phase, 60 Hz		
		(c) 220 V, 3 Phase, 60 Hz		
	3) Power-Total (kw/hp) :-	8.63 kW / 11.50 hp		

* Depending upon material characteristic & available room atmosphere only.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION OF THE MACHINERIES IS SUBJECT TO CHANGE

Pre-pressure and Main pressure could be changed depending on the size of the compress and filling depth, powder or granulation. It is dependent on the physical specification of the used material for the compress.

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It is Recommended not to use large depth of fill, minimum tablet thickness and maximum compression pressure for maximum performance consistently. Technical rights to change catalogues, specifications and features are reserved with the manufacturer. Actual output may vary against indicated output on the product under compression and RPM on lower side.



PRESS II

DOUBLE SIDED HIGH SPEED ROTARY TABLET PRESS 37 Stn. 'D', 45 Stn. 'B', 55 Stn. 'BB', 61 Stn. 'BB'

SALIENT FEATURES

- High speed double rotary tablet press
- Square design with comply cGMP standards
- All contact parts made of SS 316L material
- All tablet parameters control from outside of tableting zone through Dial
- Double sided main compression roller –100kN capacity
- SS 316L Double sided hopper with Powder controlling butterfly valve having - 24 Liters capacity
- Two Stage Force feeding system with zero clearance
- Butterfly valve to control flow of material
- 3 piece turret design –die table SS 316L material upper & lower piece in SGI material with electroless nickel plating.
- Main turret drive motor capacity of 10HP.
- Electromagnetic clutch system for smooth start of turret & improve life of motor and gearbox.
- Internal Helical ring with Pinion for turret rotation through high torque gearbox
- Hydraulic compaction force control system.
- Hydraulic cylinder withstand up to 100kN force.
- Auto lubrication system.
- Lower guard made of SS 304L Material.

TECHNICAL SPECIFICATIONS

TYPE	PRESS-II-37	PRESS-II-45	PRESS-II-55	PRESS-II-61
Number of Station	37	45	55	61
Type of tooling (As Per EU1)	D	B	BB	BB
Output-tablets/hour (Min / Max.)(Single Layer)	44,400 / 2,22,000	54,000 / 2,70,000	66,000 / 3,30,000	73,200 / 3,66,000
Output-tablets/hour (Min / Max.)(Bi-Layer)	22,200 / 66,600	27,000 / 81,000	33,000 / 99,000	36,600 / 1,09,800
Turret RPM (Min./Max.)(Single Layer)	10 / 50			
Turret RPM (Min./Max.)(Bi-Layer)	10 / 30			
Max. Operating Pressure-Main (kN)	100	65		
Max. Tablet Diameter (mm)	25	16	11	
Max. Tablet Thickness (mm)	8.5			
Max. Depth of fill (mm)	20.5mm	17.5mm		
Upper punch entry Main	1/8" To 5/16" (3.2 to 8mm)			
Main Electric Motor (kW/hp)	7.5 / 10 x 1440 RPM			
Hydraulic Power Pack Motor (kW/hp)	0.75 / 1.0 x 1440 RPM			
Feeder Electric Motor (kW/hp)	0.19/0.25 x 1440 RPM x 2 Nos. = 0.38 / 0.50 kW/hp			
Hopper Capacity	20 Litres			
Overall dimensions close guard-cm	140 W x 141 L x 189 H			
Overall dimension Open guard -cm	246 W x 236 L x 208 H			
Case dimensions - cm	175 W x 176 L x 220 H			
Net weight (kg)	2500 Kg.			
Gross weight(kg)	2835 Kg.			
Utilities :	1) Suction Air :- 300 CFM (Qty. - 01 for Single Layer) 300 CFM (Qty.- 02 for Bi Layer)			
	2) Power Supply :- (a) 415 V, 3 Phase, 50 Hz (b) 480 V, 3 Phase, 60 Hz (c) 220 V, 3 Phase, 60 Hz			
	3) Power-Total (kw/hp) :- 8.63 kW / 11.50 hp			

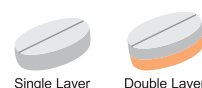
* Depending upon material characteristic & available room atmosphere only.

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PRESS IV (WITH PRE COMPRESSION)

DOUBLE SIDED HIGH SPEED ROTARY TABLET PRESS

45 Stn. 'D', 61 Stn. 'B', 75 Stn. 'BB'

25 Stn. Slugging Type (For veterinary Tablets) (40mm dia)

35 Stn. Slugging Type (For veterinary Tablets) (30mm dia)



SALIENT FEATURES

- It is a high speed double rotary tablet press for higher tablet output.
- Machine is having a square design with full consideration of cGMP standards.
- The machine is having PRE-COMPRESSION facility.
- The machine is having A.C. variable frequency drive for the main motor.
- The machine is having Electromagnetic clutch arrangements.
- outside of the machine, having SEIKO type dials.
- The machine is having A.C. variable frequency drive for force feeding motors,
- which enables operators to synchronize machine's speed & feed both.
- The machine is having Helical gear ring & pinion gear, to drive the turret.
- All upper Guards of transparent acrylic material with interlock switches for safety.
- Lower Guards of polished Stainless Steel SS 304.
- The machine having Motorized Hydraulic Powerpack for pressure loading and overload release.
- All the tablet parameters can be fine tuned during the operation of the machine from outside the tableting zone, with front controls at
- The machine is having excellent BOTTOM DRIVEN FORCE FEEDING SYSTEM for material feeding.
- The machine is having three piece turret with SS-316 middle plate.
- Electro less nickel plating is provided to the turret.
- Two layer attachment can also be provided, (Optionally).
- PLC with color MMI touch screen (Optionally).

TECHNICAL SPECIFICATIONS

SLUGGING TYPE (For veterinary) DOUBLE ROTARY

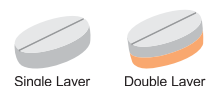
Machine Type	PRESS IV-45	PRESS IV - 61	PRESS IV - 75	PRESS IV - 25 - SLG	PRESS IV - 35 - SLG
Number of Stations	45	61	75	25	35
Type of Tooling	D	B	BB	SLUGGING	SLUGGING
Output-Tablets/Hr. (Min./Max.)*	65,000 to 3,25,000	87,840 to 4,39,200	1,08,000 to 5,40,000	(Min.) 36,000 / (Max.) 1,05,000	(Min.) 50,400 / (Max.) 1,45,000
Max. Operating Pressure(Main)	10 Tons	6.5 Tons	6.5 Tons	12 Tons	12 Tons
Max. Operating Pressure(Pre)	1 Ton	1 Ton	1 Ton	01 Tons	01 Tons
Depth of fill	20 mm	17.4 mm	17.4 mm	30 mm	30 mm
Max. Tablet Dia	25 mm	16 mm	11.1 mm	40 mm	30 mm
Upper Punch entry	1.5 to 8 mm	1.5 to 8 mm	1.5 to 8 mm	1.5 to 8 mm	1.5 to 8 mm
Power Total	8.75 kw/11.7 HP	8.75 kw/11.7 HP	8.75 kw/11.7 HP	12.48 Kw / 16.7 HP	12.48 Kw / 16.7 HP
Power Main Electric Motor	11.25 kw /15 HP	11.25 kw /15 HP	11.25 kw /15 HP	11.25 kw /15 HP	11.25 kw /15 HP
	1440 RPM, 415 V.	1440 RPM, 415 V.	1440 RPM, 415 V.	960 RPM, 415 V.	960 RPM, 415 V.
	50 Hz, 3 Ph.	50 Hz, 3 Ph.	50 Hz, 3 Ph.	50 Hz, 3 Ph.	50 Hz, 3 Ph.
Power (Feeder Motors 2 Nos.)	0.19 KW / 0.25 HP	0.19 KW 0.25 HP	0.19 KW / 0.25 HP	0.19 KW / 0.25 HP	0.19 KW / 0.25 HP
	1440 RPM, 415 V.	1440 RPM, 415 V.	1440 RPM, 415 V.	1440 RPM, 415 V.	1440 RPM, 415 V.
	50 Hz, 3 Ph.	50 Hz, 3 Ph.	50 Hz, 3 Ph.	50 Hz, 3 Ph.	50 Hz, 3 Ph.
Overall Dimension (mm)	Guard Open.....	2500 (L) X 2500 (W) X 2275 (H).....		2570 (L) x 2800 (W) x 2330 (H)	2570 (L) x 2800 (W) x 2330 (H)
Overall Dimension (mm)	Guard Close.....	1500 (L) X 1580 (W) X 1900 (H).....		1500 (L) X 1580 (W) X 1900 (H)	1500 (L) X 1580 (W) X 1900 (H)
Net Weight (Approx)		3800 kg.....		3800 Kg.	3800 Kg.
Case Dimension (mm)		3100 (L) X 3200 (W) X 2450 (H).....		3100 (L) X 3200 (W) X 2450 (H)	3100 (L) X 3200 (W) X 2450 (H)
Gross Weight (Approx)		4150 kg.....		4150 kg	4150 kg

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Single Layer Double Layer

TP-V

TP V

(WITH PRE COMPRESSION)
 DOUBLE ROTARY HIGH SPEED TABLET PRESS
 51 station 'D' tooling / 65 Station 'B' tooling /
 81 station 'BB' tooling

SALIENT FEATURES

- It is a high speed double rotary tablet press for higher tablet output.
- Machine is having a square design with full consideration of cGMP standards.
- The machine is having PRE-COMPRESSION facility.
- The machine is having A.C. variable frequency drive for the main motor.
- All the tablet parameters can be fine tuned during the operation of the machine from outside the Tabulating zone, with front controls at outside of the machine, having SEIKO type dials.
- The machine is having A.C. variable frequency drive for force feeding motors, Which enables operators to synchronize machine's speed & feed both?
- The machine is having Electromagnetic clutch arrangements.
- The machine having Motorized Hydraulic Power pack for pressure loading and overload release.
- The machine is having Helical gear ring & pinion gear, to drive the turret.
- All upper Guards of transparent acrylic material with interlock switches for safety.
- Lower Guards of polished Stainless Steel SS 304.
- The machine is having excellent BOTTOM DRIVEN FORCE FEEDING SYSTEM for material feeding.
- The machine is having one piece turret of special grade casting.
- However, three piece turret
- Two layer attachments can also be provided (Optionally).
- PLC with colour HMI touch screen (Optionally).

TECHNICAL SPECIFICATIONS

TYPE	TP V-51	TP V-65	TP V-81
Number of Station	51	65	81
Type of tooling (As Per Eu1)	D	B	BB
Output-tablets/hour (Min./Max.)(Single Layer)	73,440 / 4,28,400	93,600 / 5,46,000	1,16,640 / 6,80,400
Output-tablets/hour (Min./Max.)(Bi-Layer)	36,720 / 1,07,100	46,800 / 1,36,500	58,320 / 1,70,100
Turret Speed (RPM) (Min / Max.)(Single Layer)	12 / 70		
Turret Speed (RPM) (Min / Max.)(Bi-Layer)	12 / 35		
Max. operating pressure-Main (kN)	100 kN	65 kN	
Max. Operating Pre. Pressure-Tamp.(kN)	20 kN		
Max. Tablet Diameter (mm)	25mm	16mm	11mm
Max. Tablet Thickness (mm)	8.5 mm		
Depth of fill(With Three Different Lower Track)	13/16", 9/16", 5/16"	11/16", 1/2", 5/16"	11/16", 1/2", 5/16"
Upper punch entry Main (mm)	1.5 To 8 mm		
Upper punch entry Pre-comp. (mm)	1.5 To 8 mm		
Main Ele. motor (kw/hp)	11 kW / 15 hp x 1440 RPM		
Feeder Ele. Motor (kw/hp)	0.1875 kW / 0.25 hp, x 1440 RPMx2 Nos.=0.375 kW / 0.50 hp		
Power Pack Motor	0.75 kW / 1 hp		
Continuous Lubrication Pump and Pinion With Helical Ring(Dropco Pump)	0.0375 kW / 0.05hp		
Hopper Capacity	20 Litres		
Overall dimensions close guard-cm	170 L x 165 W x 197 H		
Overall dimension Open guard -cm	275 L x 275 W x 197 H 4100 Kg. (Approx.)		
Net weight (kg)			
Utilities :	1) Suction Air :	300 CFM (Qty. - 01 for Single Layer)	
		300 CFM (Qty.- 02 for Bi-Layer)	
	2) Compressed Air :	7Kg/Sq.cm (7 Bar)	
	3) Power Supply :	(a) 415 V, 3 Phase, 50 Hz	
		(b) 480 V, 3 Phase, 60 Hz	
		(c) 220 V, 3 Phase, 60 Hz 4)	
	Power-Total (kw/hp) :	12.16 kW / 16.22 hp	

* Depending upon material characteristic & available room atmosphere only.

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Single Layer Double Layer



Pharma Machinery Spares

