

Manufacturer & Exporter
Pharmaceutical Machineries,
Spares And Punches & Dies



You Desire, We Deliver



FALCON LAB PRESS (R & D Model)
TABLE TOP SQUARE GMP SINGLE ROTARY TABLET PRESS MACHINE
8 Stn. 'D', 10 Stn. 'B' 12 Stn. Multi Tooling (4 D + 4 B + 4 BB)

TECHNICAL SPECIFICATIONS

Machine Type	FALCON MINI-8 D	FALCON MINI-10 B	FALCON MINI-12 D-B-BB
Model	MINI PRESS	MINI PRESS	MINI PRESS
Number of Stations	8	10	12
Type of Tooling	D	B	D-B-BB
Output - Tablets/Hr.	2000 TO 14,000	2,000 TO 18,000	2,000 TO 7,200
Turret RPM (Min. / Max)	10 - 30.	10 - 30.	10 - 30.
Max. Operating Pressure	6 Tons.	6 Tons.	6 Tons.
Max. Tablet Dia.	19 mm	16 mm	19 mm
Maximum Depth of fill	20.5 mm	17.5 mm	20.5 mm
Power	2.0 HP X 1440 RPM X 415 V. X 50 Hz		
Overall Dimensions (mm)	840 x 635 x 1200 H		
Net Weight (Approx)	370 kgs		

* Depending upon the characteristics of material, shape & size of tablets
NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.



FALCON D4 TYPE
SINGLE ROTARY TABLET PRESS SQUARE GMP MACHINE
16 Stn. 'D', 20 Stn. 'D', 23 Stn. 'DB' 12 Stn. Slugging Type (For veterinary Tablets)

FALCON D4 TYPE Tablets	SLUGGING TYPE (For veterinary)				
Machine Type	D4 16D	D4 20D	D4 23 DB	D4-8-SLG40	D4-12-SLG40
Number of Station	16	20	23	8	12
Type of Tooling Punch	"D"	"D"	"DB"	(BOLUS) (BIGGER TYPE)	
Output Tablets per Hour*	13,440 - 40,320	16,800 50,400	19,320-57,950	5,760 (12 RPM) 10,560 (22 RPM)	8,640 (12PM) 15,840 (22RPM)
Max. Operating pressure	10 Tons	10 Tons	10 Tons	12 Tons	12 Tons
Max. Tablet Dia	25 mm	25 mm	16 mm	40 mm	40 mm
Maximum Depth of fill	20.5 mm	20.5 mm	17.5 mm	30.0 mm	30.0 mm
Upper Punch Penetration	1.5 - 8 mm	1.5 - 8 mm	1.5 - 8 mm	1.5 - 8 mm	1.5 - 8 mm
Main Electric Motor	3 HP / 2.2 kW, 1440RPM, 415V. 3 Phase, 50 Hz.			5 HP/930PRIM, 3 PH, 440 V.	
Overall Dimension (mm)1040 (L) X 910 (W) X 2150(H).....				
Net Weight (Kgs) approx	1150	1150	1150	1250	1250

* Depending upon the characteristics of material, shape & size of tablets
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FALCON B4 TYPE
SQUARE GMP DOUBLE ROTARY TABLET PRESS MACHINE
27 Stn. 'D', 35 Stn. 'B', 45 Stn. 'BB'

TECHNICAL SPECIFICATIONS

Machine Type	FALCON - 27 D	FALCON - 35 B	FALCON - 45 BB
Type of Tooling	D	B	BB
No. of Stations	27	35	45
Output Tablets/Hr.*	50000 to 129000	70000 to 168000	90000 to 216000
Max. Operating Pressure	10 Tons	6.5 Tons	6.5 Tons
Max. Tablet Diameter	23 mm	16 mm	11.11 mm
Max. Depth of Fill	20 mm	17.5 mm	17.5 mm
Upper Punch Penetration	1.5 to 8 mm	1.5 to 8 mm	1.5 to 8 mm
Main Electric Motor	3.70 kW / 5Hp / 1440 RPM / 415 V / 50 Hz / 3 Ph		
Overall dimensions (cm)	109 X 109 X 182 H		
Case Dimension (cm)	131 X 137 X 204 H		
Net weight - approx	1143 kg		
Gross Weight	1400 kg		

* Depending upon the characteristics of material, shape & size of tablets
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FALCON PRESS II

DOUBLE SIDED HIGH SPEED ROTARY TABLET PRESS

37 Stn. 'D', 45 Stn. 'B', 55 Stn. & 61 Stn. 'BB'



TECHNICAL SPECIFICATIONS

Type	FXT II - 37	FXT II - 45	FXT II - 55	FXT II - 61
No. of stations	37	45	55	61
Type of tooling	D	B	BB	BB
Output tablets/hour *	53280 to 266400	64800 to 324000	79200 to 396000	87840 to 439200
Max.operating pressure (main)	10 Tons	6.5 Tons	6.5 Tons	6.5 Tons
Max.tablet diameter	23 mm	16 mm	11.1 mm	11.1 mm
Max.depth of fill	20 mm	17 mm	17 mm	17 mm
Upper punch penetration	3 to 6 mm	3 to 6 mm	3 to 6 mm	3 to 6 mm
Power (total)	7 kW / 9.5 hp	7 kW / 9.5 hp	7 kW / 9.5 hp	7 kW / 9.5 hp
Main electric motor	5.5 kW / 7.5 hp, 1440 RPM, 415 V, 50 Hz, 3Ph			
Force feeder motor (2 Nos.)	0.19 kW / 0.25 hp			
Overall dimensions (cm)	148 X 141 X 187 (H)			
Net weight - approx	2500 kg			
Case dimension (cm)	170 X 185 X 226 H			
Gross Weight	2835 kg			

Note : Specification and Features of the Machineries are subject to change without any prior notice.

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FALCON PRESS IV

DOUBLE SIDED HIGH SPEED ROTARY TABLET PRESS cGMP

45 Stn. 'D', 55 Stn. 'B', 61 Stn. 'B', 75 Stn. 'BB'



TECHNICAL SPECIFICATIONS

Type	FXT IV - 45 D	FXT IV - 55 B	FXT IV - 61 B	FXT IV - 75 BB
No. of stations>	45	55	61	75
Type of tooling	D	B	B	BB
Output tablets / hours	65000	79000	87840	108000
Maximum 60 RPM	to 325000	to 396000	to 439200	to 540000
Max.operating pressure(main)	100 kN	65 kN	65 kN	65 kN
Max.operating pressure(pre-crompression)	10 kN	10 kN	10 kN	10 kN
Max.tablet diameter	23 mm	16 mm	16 mm	11.1 mm
Max.depth of fill	20 mm	17 mm	17 mm	17 mm
Upper punch penetration	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 hp	8.75 kW / 11 hp	8.75 kW / 11 hp	8.75 kW / 11 hp
Main electric motor	7.5 kW / 10 hp	7.5 kW / 10 hp	7.5 kW / 10 hp	7.5 kW / 10 hp
Force feeder motor (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
Overall dimensions (cm) (Guard Close)	167 X 178 X 209 H	167 X 178 X 209 H	167 X 178 X 209 H	167 X 178 X 209 H
Net weight - approx	3750 kg	3750 kg	3750 kg	3750 kg
Gross Weight	4100 kg	4100 kg	4100 kg	4100 kg

* Depending upon the characteristic of material and shape & size of tablets.

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ROLL COMPACTOR

cGMP Plain & Water Jacketted



TECHNICAL SPECIFICATIONS

MODEL	FMRC-200/50	FMRC-200/75	FMRC-200/100	FMRC-200/150
Output *	5 to 55 Kgs/hour	10 to 80 Kgs/hour	20 to 150 Kgs/hour	50 to 250 Kgs/hour
Roll Size	200mm Dia X 50 mm (W)	200mm Dia X 75 mm (W)	200mm Dia X 100 mm (W)	200mm Dia X 150 mm (W)
Roll Speed (Step Pulley drive)	6 to 25 RPM	6 to 25 RPM	6 to 25 RPM	6 to 22 RPM
Feed Screw Speed (Through A.C. Drive)	5 to 60 RPM	5 to 60 RPM	5 to 60 RPM	5 to 60 RPM
Roll Drive Motor	5 HP, 960 RPM, 440V, 3 Phase, 50 Hz		7.5 HP, 960 RPM, 440V, 3 Phase, 50 Hz	10 HP, 960 RPM, 440V, 3 Phase, 50 Hz
Feed Screw Drive Motor	2 HP, 1440 RPM, 440V, 3 Phase, 50 Hz			5 HP, 1440 RPM, 440V, 3 Phase, 50 Hz

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VACCUM TRAY DRYER MACHINE

MODEL : 12 TRAY / 24 TRAY / 48 TRAY

TECHNICAL SPECIFICATION						
Model	VTD 6	VTD 12	VTD 18	VTD 24	VTD 36	VTD 48
No. of Trays: 800 X 400 X 32 MMS	06	12	18	24	36	48
Number of shelf	06	06	06	08	12	16
Dummy Shelf	01	01	01	01	01	01
Surface Area- m2	2.0	4.0	6.0	8.0	12.0	16.0
Vacuum Level Attainable mms of Hg.	Maximum Generated on Sea level 750mm of Hg.					
	(on pump suction)					
Vacuum Drop in 24 Hrs mms of Hg.	75	75	75	75	90	90
Capacity Pump Cap m3 /hr	51	51	85	85	170	170



150 CFM

DUST EXTRACTOR MACHINE

TECHNICAL SPECIFICATION	
Model	FALCON DE-150 / 300
Electric Motor	1 HP / 2800 RPM / 3 Ph.
Filtration Area	1.343 Sq. Mtr.
Dust Storage Capacity	40 Liters.
Suction Capacity	150/300 CFM
	(500 Mtr. Cube / Hr.)
	at 125 mm W.G.



300 CFM



COATING MACHINE

TECHNICAL SPECIFICATION									
MODEL	12"	18"	24"	30"	36"	42"	48"	60"	72"
Loading	05	7	20	40	60	90	110	150	200
Capacity in Kg.		to 8	to 25	to 45	to 80	to 100	to 120	to 210	to 250
Motor HP	0.5	0.5	1.0	1.5	1.5	2.0	2.0	5.0	7.5
Blower HP	0.25	0.25	0.5	0.5	1.0	1.0	1.0	2.0	2.0
Blower fan Volume CFM	90	90	150	150	150	150	150	300	300
Heater Capacity in Kw.	1.0	1.0	3.0	3.0	3.0	3.0	3.0	5.0	5.0

* Depending upon shape & size of tablets .



OSCILLATING GRANULATOR MACHINE

TECHNICAL SPECIFICATION	
Model	FALCON / OGR
Hopper capacity	50 Liters
Screen area	388 mm (W) x 762 mm (L)
Stirrer size	Ø 138 mm x 368 mm Length
Oscillation	110 Per Minute.
Output *	50 to 150 Kgs./Hr.
Charging height	1135 + 5 mm
Discharging height	655 + 5 mm
Main Electric Motor	2 HP / 1440 RPM / 3 Ph.

* Varies according to product characteristic & and screen type.



COMMINUATING MILL

TECHNICAL SPECIFICATION	
MODEL	FALCON / COMM.
Rotor Speed	1000 -2250 -4500 rpm.
Blades	Swinging type with knife and impact edge
Screens	1.Round hole perforated stainless steel sheet.
Electric Motor	7.5 hp., 1440 RPM., 440 V., 50 Hz., 3 Phase
Overall dimensions(mm)	1260 (L) x 720(W) 1560 (H)
Net weight	310 kgs.
Output (kg./hour)	25 to 300 (varies according to product, rotor speed & screen)

*Varies according to product characteristic, rotor speed and screen type.



Brushing Unit

DE-BURRING & DE-DUSTING MACHINE

TECHNICAL SPECIFICATION	
Model	FALCON DD
Output *	5,000 to 2,50,000 tablet / Hr.
Main Electric Motor	0.25 Hp. / 1440 RPM / 3 Ph.
Max. Tablet Diameter	25 mm
Min. Tablet Diameter	5 mm

* Depending upon tablet shape & size.



Horizontal Model

COLLOID MILL

TECHNICAL SPECIFICATION	
Model	FALCON / FCM- 15
Output *	150 to 1200 Liters.
Particle size reduction *	5 to 10 Microns.
Hopper capacity	15 to 20 Liters
Main Electrical Motor	3 HP / 2850 RPM / 3 Ph.

* Depending upon material characteristics viscosity, density & micron size.



TABLET INSPECTION MACHINE

TECHNICAL SPECIFICATION	
Model	FALCON -TIB
Electric Motor	0.25 HP / 1440 RPM / 3 Ph.
Belt width	145 mm
Machine Dimension	540 mm (W) X 1955 mm (L) X 1270 mm (H)

MASS MIXER



TECHNICAL SPECIFICATION				
Model	FALCON MM 50	FALCON MM 100	FALCON MM 150	FALCON MM 200
Capacity	50 Kgs.	100 Kgs.	150 Kgs.	200 Kgs.
Over flow capacity	110 Ltrs.	220 Ltrs.	330 Ltrs.	440 Ltrs.
Working capacity	88 Ltrs.	156 Ltrs.	234 Ltrs.	310 Ltrs.
Speed of stirrer	35 RPM	35 RPM	30 RPM.	30 RPM.
Main Electric Motor	3 HP / 3 Ph.	5 HP / 3 Ph.	7.5 HP / 3 Ph.	10 HP / 3 Ph.

* Varies according to product characteristic & and screen type.

Popular 'FALCON' Toolings & Ancillary Equipments

- Quality Dies & Punches as per world standard.
- Premium S7 steel for all punches.
- D3 steel standard for all dies.
- Multi-tip tooling.
- Carbide lined dies.
- Free tooling certifications.
- Inspection report for each & every Die & Punch.
- Inspection kit of Dies & Punches.
- Die & Punch Polishing Kit.
- Storage Systems for Tablet Tooling.



FALCON offers Tooling with a wide variety of steels depending on the applications:

The following are the combinations we offer

For Punches : AISI 01 (OHNS) – for general applications
 AISI D2 (HCHC)- for highly abrasive Tablets
 S7 – for compressing tough products and better cavity finish
 S1 – for compressing tough product.
 440C – Stainless steel grade for corrosion resistance & good lubrication property

For Dies : AISI D3 (HCHC)

The customer should specify the product nature according to which the right combination of tool steel is selected by FALCON.