

We Are Committed to
Transforming Lives.

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Our Mission

F Plus is a think tank of professionals from across the life sciences spectrum, intent on re-imagining a better, fairer, equitable world. We do this by enabling pharmaceutical and biotech companies and investors to bring their ideas to life and grow them into sustainable businesses.

We Are Committed to Transforming Lives.

Our purpose is deeply rooted in the Belief that **all lives have equal value.**

We are accomplishing that by building **indigenons manufacturing capability** and sharing technology across the globe

Thus ensuring **Access to Affordable** life Saving Drugs to everyone



F Plus Healthcare Technologies LLP is a Powerhouse to bring your ideas to life and trun them into sustainable businesses.

F Plus's Solutions For OSD

Granulation Equipments

F Plus's Granulation Line

F Plus manufactures complete range of advance granulation process equipment from lab and pilot scale to complete production scale.

These equipment can work in a closed loop manner to get dust-free material transfer from one equipment to another.

- ✦ Seamless scale up from R&D to pilot and from pilot to production scale
- ✦ Easy to operate HMI
- ✦ SCADA option available
- ✦ WIP arrangement



High Shear Mixer Granulator & Fluid Bed Dryer



High Shear Mixer

- + Accurate detection of end point
- + PLC/IPC with 21 CFR Part 11 compliance
- + Optional SCADA system
- + Flameproof variants available
- + F Plus's sealing system for Impeller to eliminate particle ingress
- + Jacketed Bowl available for temperature sensitive products

Fluid Bed Equipment

- + Provision for manual as well as dust-free product charging
- + It can be used for drying as well as top spray granulator
- + Option to do Wurster coating with additional product container
- + Static discharge elimination system
- + Unique conidur screen





Vibro Sifter

- + F Plus Vibro Sifter give seamless output between 50kgs/hr* to 800 kgs/hr*
- + Fast and effective powder screening
- + Vacuum rated model available
- + Silicon molded lead free screen
- + Single or Multi Deck design

Multimill

- + Comes with knife and impact edges
- + Models available for R&D, Pilot and production scale
- + It can be integrated in closed loop granulation line



Material Handling Equipments



Lifter



Tipper



VTS

Blenders

- + Highest level of homogenous mixing
- + Bump les rotation
- + Safety guards with limit switch
- + Optional PLC/HMI based control system
- + Optional VFD based speed control
- + Different type of Blenders including Bin Blender, Octagonal Blender, V Blender, Double-Cone Blender, Cube Blender are available

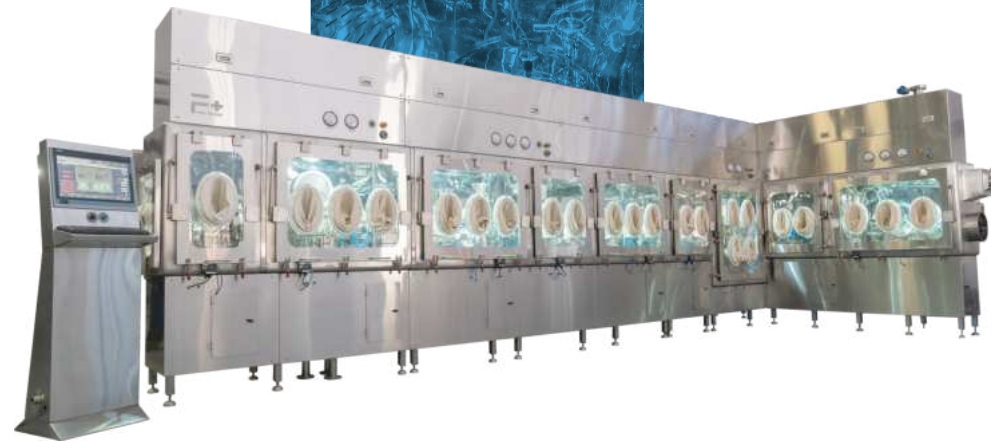
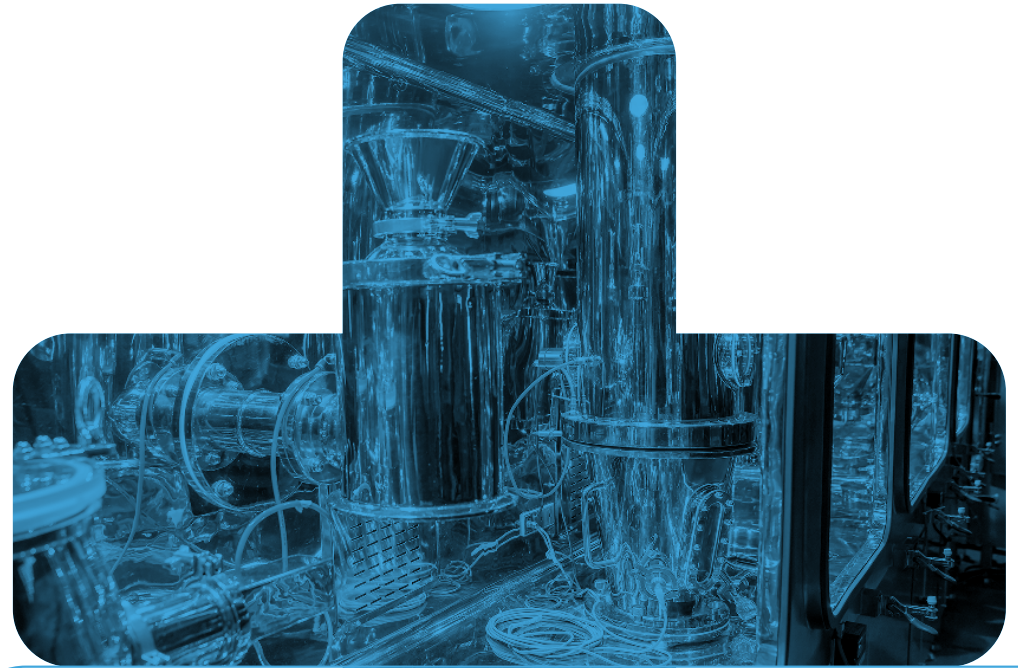


Bin Washing System

- + Capacity is customizable as per requirement.
- + Closed cabinet type washing system for Bin
- + PLC control system with HMI

Containment System

Positive Pressure Isolator



Negative Pressure Isolator

Tablet Compression Machine

Our Flagship Tablet Presses

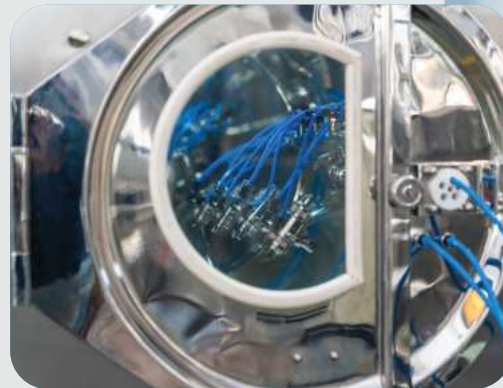
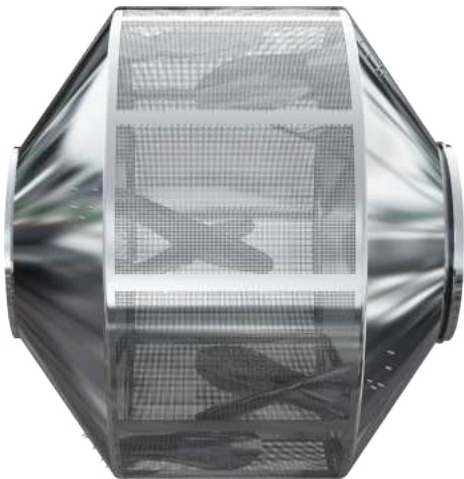
- + Motorized/manual thickness and weight control adjustment
- + Main compression and Pre Compression
- + Two Piece turret with ENLP coating
- + Auto Lubrication and Drip feed lubrication for punches
- + Touch screen control with printing facility.
- + Push button control also available

MODEL	FTP Mini	FTP 1.1	FTP 2.0	FTP 2.1
No. of Station	8	27	37	51
Tooling	D	D	D	D
Max. Tablet Dia (mm)	23	25	25	25
Max depth of fill (mm)	20	20	20	20
Max Tablet Output	15360	155520	266400	367200
Max Main compression (ton)	6	10	10	10
Max Pre Compression	2	N.A	N.A	4
Controls	HMI	HMI	HMI	HMI



Autocoater

- ✦ Film, Enteric & Sugar coating in a single equipment
- ✦ Anti-Bearding performance of Spray Nozzle
- ✦ IR Sensor to monitor product temperature
- ✦ Automatic charging & discharging of Tablets
- ✦ Multi Head Multi Drive Pump
- ✦ 21 CFR part 11 and Gamp 5 compliant IPC systems



Capsule Filling Machine

Fully Automatic capsule filling machines with capacity starting from 1,500 capsules per hour to 200,000 capsule per hour. Encapsulates Pellet, powders, micro tablets, liquids, capsule or soft gel capsules in hard gelatin capsule.



3,000 per hr
Powder Filling
1,800 per hr
Pellet Filling
1,300 per hr
Tablet Filling

PF-R&D



PF-25

25,000 per hr
Powder Filling
18,900 per hr
Pellet Filling
14,000 per hr
Tablet Filling

40,000 per hr
Powder Filling
28,000 per hr
Pellet Filling
28,000 per hr
Tablet Filling

PF-40



PF-90

90,000 per hr
Powder Filling
75,000 per hr
Pellet Filling
50,000 per hr
Tablet Filling

150,000 per hr
Powder Filling
118,000 per hr
Pellet Filling
64,000 per hr
Tablet Filling

PF-150



PF-200

200,000 per hr
Powder Filling
178,000 per hr
Pellet Filling
121,000 per hr
Tablet Filling



POWDER



PELLETS



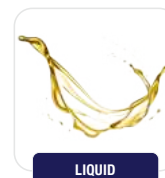
MICROTABLETS



TABLETS



CAPASULE



LIQUID



SOFTGEL CAPSULE



Capsule Filling Machine - XTR Series

- ✦ Encapsulate Pellet, powders, micro tablets, liquids, capsule or soft gel capsules in hard gelatin capsule
- ✦ Suitable for capsules from size 000 to 5
- ✦ Microdosing upto 15mg with weight variation of +/- 1%

Model	Output (max/hr)	No. of Stations	Holes per segment	Capsule Size	Standard Voltage	Rated Power (kW)	Net weight (kg)
XTR 50	50,000	10	7	#00, #0, #0EL, #1, #2, #3, #4, #5	220/380/415 V; 3PH; 50 / 60 Hz	Approx 4	1,000
XTR 90	90,000	10	14			Approx 6	1,000
XTR200	200,000	10	26			Approx 12	3,000



Semi-Automatic Capsule Filling Machine

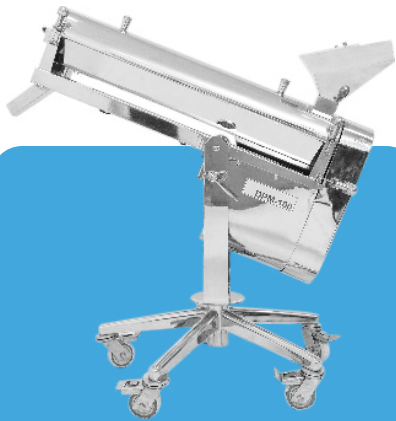
F Plus Semi Automatic Capsule Filling machine is available in Single Loader and Double Loader Design suitable to provide an output of up to 20,000-25,000 & 30,000-40,000 capsules per hour respectively.

- + Automatic loading and filling to minimize operator attention
- + PLC operated machine
- + Easy changeover of parts (maximum 15 minutes required to change)
- + Automatic closing and ejection of filled capsules.

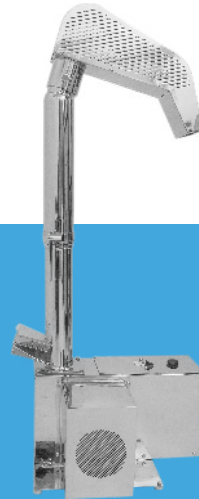
Manual Capsule Filling Machine

- + Maximum output 55,000 - 60,000 capsules per 8 hour shift.
- + Ideal for R&D, small/medium scale pharmaceuticals units.
- + Simple operation, precise result with less rejection
- + Sturdy, easily movable
- + Interchangeable parts can be supplied for all standard size capsules from size 00 to 5.

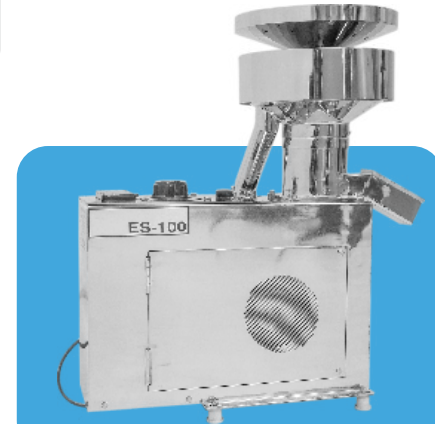




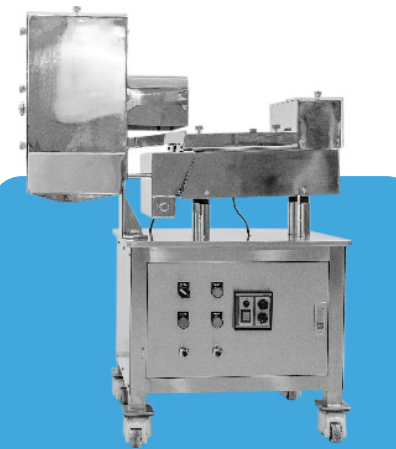
Capsule Polisher



Empty Capsule Elevator



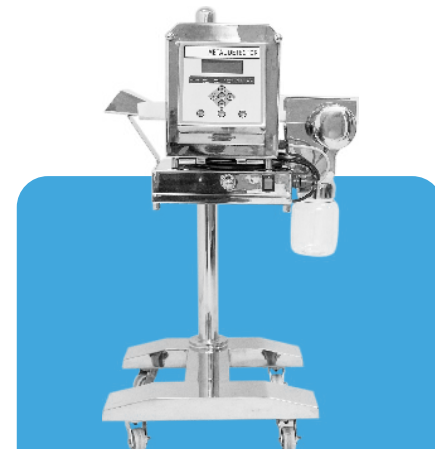
Empty Sorter



FCS-100 & MCS-100



Capsule De-Duster



Metal Detector

F Plus's Solutions for Liquids / Semi Solids / Injectables

Liquid Syrup manufacturing Line

F Plus's syrup manufacturing line is fully customizable to meet end to end solution for liquid oral plants. They are available from 500 Ltr to 30,000 Ltr capacity.

- ✦ Transfer for sugar/glucose through vacuum
- ✦ Sugar preparation system with jacketed, insulated and cladded vessel with bottom entry propeller for vigorous mixing
- ✦ In-line high shear mixer for suspensions
- ✦ Filtration system for clear/suspension syrup
- ✦ 21 CFR Part 11 compliant PLC/SCADA based automation system



Sterile Manufacturing Vessel

- ✦ Pharmaceutical Application: Sterile solution, vials, Ampoules, I.V Fluids, Aerosols, LVP & SVP Solution
- ✦ Biopharmaceutical Application: Vaccines, Human Insulins, Serums, Plasma Fractions, Bacteria and cell cultures
- ✦ F Plus's sterile manufacturing vessel are customized aseptic design as per US FDA/ cGMP/ ASME/ PED/ compliance with ASME -BPE norms. They are available from 20 Ltr to 30,000 Ltr capacity.

Ointment & Cream Manufacturing Line

- ✦ Capacity range of 5-10,000 Kgs
- ✦ Pharmaceutical Application – Sterile & Non-sterile Ointment, cream, Gel, Lotion, Medicated toothpaste
- ✦ Cosmetic – Lotions, cream, Hair dyes, shampoo, conditioners, tooth paste, bath additives, foot care products, etc
- ✦ Load cells for weight automation



F Plus's Solution For Water System

- ✦ Water generation and Distribution system with customizable configuration
- ✦ ASME BPE grade field piping with insulation
- ✦ Energy saving design
- ✦ Automatic / semi-automatic variants with 21 CFR Part 11 compliance with SCADA

Multi-Column Distillation Plant (WFI)



CIP & SIP Systems



Pure Steam Generator



Purified Water Generation & Distribution



F Plus's Solution For Filling Machines

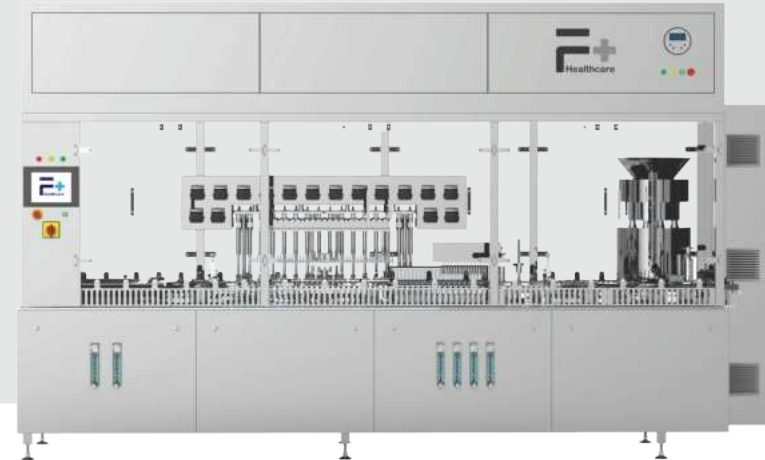
High Speed Ampoule / Vial (Combo) Filling Machine

Filling & Sealing Machine – Servo Based

Model No. FVE AFS-150AV | FVE AFS-300AV
FVE AFS-400AV | FVE AFS-600AV

Product Range

1ml to 25ml Ampoules
2ml to 30ml Vials
Output: 150 | 300 | 400 | 600 / Minute



High Speed Injectable Powder Filling Machine

Powder filling with rubber stoppering machine

Model No. FVE APF-150 | FVE APF-250

Product Range

Product Range:
5ml to 100ml vials
50mg to 1500mg single dose (with help of change parts)
1500mg to 6000mg double, triple and four doses
Output: 120/ minute | 250/ minute

Volumetric Liquid Filling Machine

Product Range

10ml to 1000ml Bottles
Output: 120 Bottles/min | 240 Bottles/min



Multihead ROPP Cap
Sealing Machine



Turntable

F Plus's Solutions For Packing Machine

Blister Packing

FVE – FLAT FORMING & FLAT SEALING BLISTER PACKING MACHINE

- ✦ Production capacity upto 7 lacs Tablets/ shift
- ✦ Calibrated packing speed of upto 35 strokes/min
- ✦ Servo based roller with roller indexing
- ✦ Feeding using dropping system or Pneumatic Technology
- ✦ Scrap winder for scrap handling

Description	Cold Forming	Thermo Forming
Base Foil Width	240 MM	240 MM
Base Foil Thickness	0.13 MM	0.25 - 0.4 MM
Base Foil Material	Aluminium	PVC / PVDC / ACLAR / OPAQUE / TRIPLEX
Base foil Reel Diameter	440 MM - Max (Foil Reel Core Dia 72 - 76 mm)	
Sealing Foil Width	240 MM	
Sealing Foil Thickness	0.025 MM	
Sealing Foil Material	Aluminium	Aluminium / CR Foil / Laminated Paper
Sealing foil Reel Diameter	210 MM - Max (Foil Reel Core Dia 72 - 76 mm)	
Format Area	240 X 150 MM	
Max. Packet Forming Area	230 X 145 MM	
Max Forming Depth	10 MM	12 MM
Machine Speed Upto	35 Strokes / Min.	30 Strokes / Min.
Approximate Weight of Machine	2500 KGS	
Machine Dimension (L X W X H)	4200 X 1050 X 1900 MM	
Electrical Input	3 Phase, 7.5 KW, 50 Hz, 5 Wire, 2.5 Sq. MM	
Chilled Water Requirement	200 Liters of chilled water / hour at 16°C Temperature	
Additional Safety	Air Dryer, Voltage Stabilizer	
Compressed Air Requirement	Dry Air with 6 Bar continuous Pressure (20 CFM)	



FVE – FLAT FORMING & FLAT SEALING BLISTER PACKING MACHINE R&D MODEL

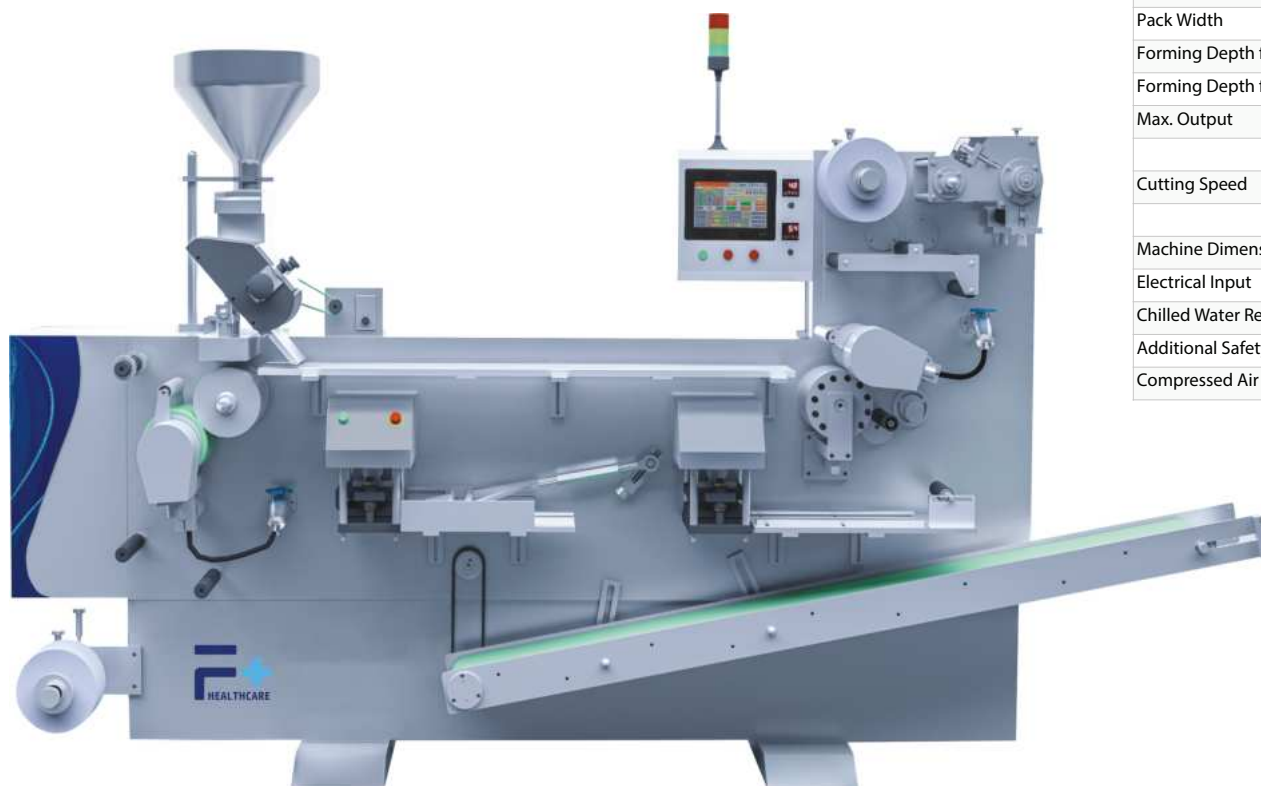
- ✚ Calibrated packing speed of upto 15 strokes/min
- ✚ Thermo forming & cold forming (Material like Alu-Alu / PVC/ PVD/ ACLAR Etc.)
- ✚ Servo based roller with roller indexing
- ✚ Scrap winder for scrap handling

Description	Cold Forming	Thermo Forming
Base Foil Width	150 MM	150 MM
Base Foil Thickness	0.13 MM	0.25 - 0.4 MM
Base Foil Material	Aluminium	PVC / PVDC / ACLAR / OPAQUE / TRIPLEX
Base foil Reel Diameter	440 MM - Max (Foil Reel Core Dia 72 - 76 mm)	
Sealing Foil Width	150 MM	
Sealing Foil Thickness	0.025 MM	
Sealing Foil Material	Aluminium	Aluminium / CR Foil / Laminated Paper
Sealing foil Reel Diameter	210 MM - Max (Foil Reel Core Dia 72 - 76 mm)	
Max. Packet Forming Area	140 X 95 MM	
Max Forming Depth	10 MM	12 MM
Machine Speed Upto	10 - 15 Strokes / Min.	
Approximate Weight of Machine	650 KGS	
Machine Dimension (L X W X H)	1500 X 450 X 1350 MM	
Electrical Input	1 Phase, 3 KW, 50 Hz, 5 Wire, 2.5 Sq. MM	
Chilled Water Requirement	100 Liters of chilled water / hour at 16°C Temperature	
Additional Safety	Air Dryer, Voltage Stabilizer	
Compressed Air Requirement	Dry Air with 5 Bar continuous Pressure (20 CFM)	



FVE – ROTARY FORMING & ROTARY SEALING BLISTER PACKING MACHINE

- + Production capacity upto 2500 Tablets per/min
- + Production capacity upto 415 Ampoules-Vials per/min
- + Blister inspection system with rejection system
- + Autofeeder for Ampoule and vials
- + Print Registration Control (PRC) for Pack to print



Description	FVE RPACK - 240
Base Film Width Max	210 MM
Base Film Thickness Max	0.25 - 0.4 MM
Base Film Material	PVC / PVDC / ACLAR / OPAQUE / TRIPLEX
Sealing Foil Width Max	206 MM
Sealing Foil Thickness Max	0.02 - 0.04
Sealing Foil Material	Aluminium / CR Foil / Laminated Paper
Pack Length	200 MM
Pack Width	100 MM
Forming Depth for Ampoule / Vial	16 MM / 20 MM
Forming Depth for Tablet / Capsule	12 MM
Max. Output	Upto 1200000 Tablet - Capsules per shift (8 Hrs.) Upto 200000 Ampoule - Vials per shift (8 Hrs.)
Cutting Speed	Upto 100 Strokes/min for Tablet - Capsule Upto 30 Strokes/min for Ampoule - Vials
Machine Dimension (L X W X H)	3200 X 1000 X 1800 MM
Electrical Input	3 Phase, 6.5 KW, 50 Hz, 5 Wire, 2.5 Sq. MM
Chilled Water Requirement	100 Liters of chilled water / hour at 16°C Temperature
Additional Safety	Air Dryer, Voltage Stabilizer
Compressed Air Requirement	Dry Air with 6 Bar continuous Pressure (15 CFM)

FVE – STRIP PACKING MACHINE

- ✚ Suitable for tablets, capsule, Bolous etc.
- ✚ Made suitable for most of the heat sealable coated foils like paperpoly, glassinepoly, cellophane laminated aluminium etc with easy temperature control

Model	4 - TRACK	6 - TRACK	8 - TRACK
No. of Tracks	4	6	8
Foil Reel Width	155 MM	210 MM	300 MM
Foil Reel O.D	250 MM Dia		
Foil Reel Core Diameter	76 MM Dia		
Output per min. (Depending upon Tablet size) (Tablets/Min)	500-1200	1000 - 1500	1200 - 2000
Electrical Data	2 KW, 1440 RPM, 3 Phase		
Net Weight Approx.	420 KGS	520 KGS	620 KGS
Compressed Air Requirement at 6 Bar Pressure	20	20	20



F Plus's Solution For Cleanroom Equipments

- + Custom Design as per requirement
- + MOC in SS 304/ SS 316
- + PLC based control system



Air Shower



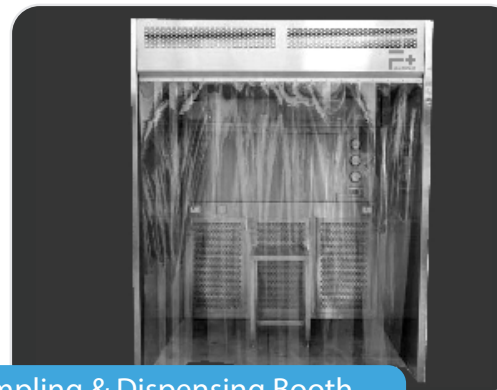
De-Dusting Tunnel



Static / Dynamic Passbox



Mist Shower



Sampling & Dispensing Booth



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