



SM PHARMA SOLUTIONS



www.smpharmasolutions.com



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ABOUT S.M. PHARMA SOLUTIONS

Sm Pharma Solutions Makes The Most Technologically Advanced Sterile Filling Solutions For The Pharmaceutical Industry. Smp Fill-finish Machines Use Isolated Robotics And Machine Vision To Automated The Packaging Of Injectable Drugs Into Nested Vials, Syringes, Or Cartridges. The Company Was Founded By Pharmaceutical Industry Veterans To Create The Systems Needed To Make The Next Generation Of Innovative Therapies. For More Information, Visit www.smpharmasolutions.com.

Sm Pharma Solutions Came Into Inception In The Year 2018 As A Sole Proprietorship Firm. We Conduct Our Entire Business Operation From Ahmedabad, Gujarat, India.

SmPharmasolutions Leading Manufacturer & Exporter Of The Pharmaceutical, Liquid Injectbale, Dry Syrup, Oral Liquid, Dry Injectbale, Eyr Drops, Pfs, Foods, Cosmetic And Herbal Plant Machinery's And Many More.

Our Entire Business Activities Get Conducted Under Profound Guidance Of Mr. Jayesh Patel (technical Director) Dr. Paresh Prajapati (M.pharma/PHD) he Has Been Experience More Than 17th Years In Pharma Industry, He Is Known For Extensive Domain Knowledge And Large Business Acumen.our Raw Material For Manufacturing Is Sourced Strictly From Valid Vendors, To Make Sure It Serves The Purpose For Which It Has Been Procured.

Our Infrastructure Is Well Organized And Supports Entire Manufacturing And Other Allied Business Process In Innumerable Ways. We Are Known For Meeting The Satisfaction Levels Of Clients In A Profound Manner.

We Try To Keep Our Clients Happy And We Ensure Nothing Detonates Us From Providing Them World Class Quality Products.

We Are Also Specialized In Taking The (annual Maintenance Contract) Amc And Validation For The Whole Or Part Plants As Well.

SM PHARMA SOLUTIONS PROVIDED:

- ❖ LIQUID INJECTABLE PLANT MACHINERY'S
- ❖ DRY INJECTABLE PLANT MACHINERY'S
- ❖ API, FORMULATIONS, COSMETICS,
- ❖ VACCINE, PFS, EYE DROPS FILLING MACHINERY'S
- ❖ DRY SYRUP LINE MACHINERY'S
- ❖ ORAL LIQUID LINE MACHINERY'S
- ❖ TABLET COUNTING & BOTTLE FILLING LINE MACHINERY'S
- ❖ COSMATIC PLANT MACHINERY'S
- ❖ FOODS PLANT MACHINERY'S

SM PHARMA SOLUTIONS AT FSSAI:

- ❖ NEW PRODUCT APPROVAL
- ❖ EXISTING PRODUCT APPROVAL
- ❖ CONVERSION OF EXISTING LICENSE IN TO FSSAI
- ❖ RENEWAL OF REGISTRATION OR LICENSE
- ❖ FRESH FSSAI LICENSE
- ❖ FOOD IMPORT REGISTRATION IN INDIA



WE ARE EXPORT



- RUSSIA
- BELARUS
- ISRAEL
- NEPAL
- SUDAN
- SHRILANKA
- NIGERIA
- CANADA
- USA

We carry out AMC With servicing of all type pharmaceutical machineries with QC equipment. We also supply machine spare parts to our customers.

OUR CLIENTS





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TABLET COUNTING AND FILLING MACHINE



TABLET COUNTING AND FILLING MACHINE

GENERAL SPECIFICATIONS OF “SMP” TABLET COUNTING & FILLING MACHINE SMP Tablet Counting And Filling Machine Adopts Advanced Vibration and multi-channel feeder, computer control, dynamic scan counting, transfer the bottle automatically, system test automatically. The machine With Stop automatically functions and other advanced technology. This machine designed with cGMP standard. Composed of the light, electric machinery to one set, which is suitable for tablet or capsule counting and filling in pharmaceutical or food business. Tablet/capsule bottle packing line with 3 different technology bases like electronic tablet & capsule counting line, disk type tablet/capsule counting line and Track type tablet and capsule counting line.

SALIENT FEATURES

- A. Counter discrepancies is less than 0.2% Stable operation and lower noise. Bottle convey smoothly with SS Slate conveyor. Full-set protecting device keep operation steady and reliable. Intellectual touch screen Control System (Delta) which is easy to control. Simple Straight Forward Operator Controls. On-Screen trouble description which is easy to solve. Stainless Frame. Output up to 60 bottle per minute (Depend of tablet/capsule size and shape)
- B. Model SMPTC-18 Counter is suitable for counting hard gelatin capsules, softgels, tablets, Round pills and other solid materials. Each unit has 18 channels with triple nozzles and equipped with Honeywell’s Intelligent Sensor Eyes, which has a total of 176 sensor eyes for 100% counting accuracy. The counter has three-stage vibrations to feed tablets or capsules, vibrating frequency adjustable for quick and stable in feeding. Bottles are positioned and changed by air cylinder to ensure accuracy positioning prior to filling to avoid spillage. Also featuring slightly diving nozzles and lock bottles into place prior to filling.

FEATURES

- New compact design, includes cleaner machine operation and easier clean-up accomplished by moving the “dust” extracting system to the back of the unit to more completely extract the excess tablet dust
- Japan's HMI Touch Screen Control Technology & Color Touch Screen Panel for reliable operations.
- Suitable for counting any sizes and shapes of tablets and capsules w/o changing parts.
- Sensor Control Double Rail Conveyor for Double Counting & Filling.
- The products dropped by two-stage vibration and dedusting system without scratch to the tablets or capsules, which is conformed to the cGMP standards.
- 18 counting channels, each equipped with 18 product sensors to count each product, pass over 9 power vibratory units. The 18 channels vibratory plates are totally isolated from the vibratory drivesystem to provide inner protection, longer machine life and 100% counting accuracy.

TECHNICAL DETAILS OF THE CHANNEL COUNTING MACHINE

CHANNELS	MODEL TYPE	DESCRIPTIONS
1	SMPCF-5	1 To 5 Bottles (Depending Upon the Product Count)
2	SMPCF-10	1 To 10 Bottles (Depending Upon the Product Count)
4	SMPCF-20	1 To 20 Bottles (Depending Upon the Product Count)
6	SMPCF-30	1 To 30 Bottles (Depending Upon the Product Count)
8	SMPCF-40	1 To 40 Bottles (Depending Upon the Product Count)
12	SMPCF-60	1 To 60 Bottles (Depending Upon the Product Count)
16	SMPCF-80	1 To 80 Bottles (Depending Upon the Product Count)
24	SMPCF-100	1 To 100 Bottles (Depending Upon the Product Count)
32	SMPCF-120	1 To 120 Bottles (Depending Upon the Product Count)

PLC & HMI COLOR TOUCH SCREEN 10" WITH IMPORTED SENSOR BASE COUNTING
 TABLETS DIA. 5 TO 22MM, IRREGULAR SHAPE PILLS DIA. 3 TO 13MM/ PILLS DIA. 3 TO 13MM
 CAPSULE SIZES: CAPSULES 0 TO 5/ CAPSULES 0 TO 5/ CAPSULES 0 TO 5/ CAPSULES 0 TO 5
 CONTAINER SIZE: - NECK DIAMETER 25MM TO 40MM BODY DIAMETER 100 MM BOTTLE HEIGHT 39 TO 241MM
 CONTAINER ADAPTABILITY: - MACHINE CAN WORK WITH GLASS, HDPE, PET, PLASTIC, LDPE CONTAINER
 IT IS SUITABLE FOR BOTH ROUND AND FLAT SHAPE CONTAINER.
 POWER REQUIREMENT: - 1 HP, 230 VOLTS, 50 HZ, 1 PHASE (4 WIRE SYSTEM),
 MACHINE DIMENSION (L X W X H): 1500L X 1200W X 2200H TO 3000L X 1800W X 2200H (MM)
 WEIGHT 400 TO 3500 KGS, IPC 14" (OPTIONAL)



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AUTOMATIC EYE DROPS LIQUID FILLING, PLUGGING & CAPPING MACHINE



AUTOMATIC DOUBE SIDED 27 STN D TOOLING TABLET PRESS MACHINE

Type – B4	27 STN. D	35 STN. B	45 STN. BB
Type of Tooling	D	B	Die BB & punch B
No. of Station	27	35	45
Max. operating pressure	10 Ton (100 Kn)	6.5 Ton (65 kn)	6.5 Ton (65 kn)
Max. Tablet Diameter	23 mm	16 mm	11.0 mm
Max. Depth of fill	20 mm	17.5 mm	17.5 mm
Max. Thickness of tablet	18 mm	11.1 mm	11.1 mm
Output Tab./Hr.	48,000 to 1,29,000	70,000 to 1,68,000	90,000 to 2,16,000
Upper Punch Penetration		1.5mm to 8mm	
Turret RPM (min./max.)*		16 to 40 RPM	
Electric Motor		7.5 HP / 1440 RPM/ 3 Ph.	
Overall Dimensions (mm)		1981X1830X1988 (H)	
Net Weight		1650 Kg. (Approx.)	
Gross Weight		1850 Kg. (Approx.)	

AUTOMATIC DOUBLE ROTARY HIGH SPEED TABLET PRESS MACHINE SMP-II-37 D TOOLING

Type	SMP-II – 37	SMP-II-45	SMP-II-61
No. of Station	37	45	61
Type of tooling	D	DB	BB
Max. Operating Pressure	10 Ton	10 Ton	6.5 Ton
Max. Tablet Dia.	23 mm	18.50 mm	11.1 mm
Depth of Fill	20.00 mm	17.00 mm	17.00 mm
? Output tab./hr.	53280 to 266400	64800 to 324000	79200 to 439200
Upper Punch Penetration	3 To 8 mm	3 To 8 mm	3 To 8 mm
Main Electric Motor	7.5 KW / 10 HP / 1440 RPM / 3 ph.		
Powder Feeder Motor	0.30 KW / 0.5 HP / 1440 RPM / 3 ph.		
Machine dimension without open guard	1344 (L) x 1430(W) x 1485(H)		
Machine Dimension with guard open	2350(L) x 2300(W) x 2080(H)		
Net Weight (approx.)	3200 Kg.		
Gross Weight (approx.)	3800 Kg.		

AUTOMATIC DOUBLE ROTARY HIGH SPEED TABLET PRESS MACHINE SMP-IV-45 D TOOLING

TYPE	SMP-PRESS IV 45	SMP-PRESS IV 61	SMP-PRESS IV 75
NUMBER OF STATIONS	45	61	75
TYPE OF TOOLING (AS PER EU1)	D	B	BB
OUTPUT – TABLET / HOUR* (MIN. /MAX.)	41,760 / 325,000	53,280 / 439,000	67,680 / 540,000
MAX OPERATING PRESSURE MAIN (KN)	100	65	65
MAX TABLE DIAMETER ROUND (MM)	25	16	11
MAX. TABLE THICKNESS (MM)	8.5		
MAX DEPTH OF FILL (MM) (WITH THREE DIFFERENT LOWER TRACK)	4.5 – 10 FOR "D" & "B" & "BB" Tooling / 8.5 – 14 "D" & "B" & "BB" Tooling / 12.5 – 20 SUITABLE FOR "D" Tooling		
UPPER PUNCH ENTRY MAIN (MM)	1 TO 6 PENETRATION SYSTEM		
POWER – TOTAL (KW/HP)	13.5 KW / 18.0 HP		
MAIN ELE. MOTOR (KW/ HP)	11.25 KW / 15 HP X 1440 RPM		
DEPT OF FILLING MOTOR (KW/HP)	0.37/0.50, 1440 RPM X 2NOS		
HYDRAULIC POWER PACK MOTOR FEEDER ELE. MOTOR (KW/HP)	0.75 KW / 1 HP 1440 RPM		
HOPPER CAPACITY	17 LTR		
OVERALL DIMENSIONS (MM) (WITH CLOSE GUARD)	1530 L X 1685 W X 1850 H MM		
OVERALL DIMENSIONS (MM) (WITH OPEN GUARD)	2500 L X 2550 W X 2280 H MM		
NET WEIGHT (Kg.)	4,500 kg. Approx.		
GROSS WEIGHT (Kg.)	5,300 kg. Approx.		
UTILITES	1). SUCTION: - 300 CFM 2). COMPRESSED AIR: 5KG /SQ.CM (5 BAR) 3). POWER SUPPLY: - 415 V 3 PHASE, 50 HZ		
ACRYLIC GUARD THICKNESS	6MM WITH ALUMINIUM FRAME		





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WASHING SEQUENCE

- 1st wash re-circulated water (inner/outer)
 - 2nd wash compressed air
 - 3rd wash d. M. Water (inner/outer)
 - 4th wash compressed air
 - 5th wash W.F.I. water (direct input from utility loop connection)
 - 6th wash compressed air
- Salient features

AUTOMATIC ROTARY GRIPPER TYPE AMPOULE WASHING MACHINE MODEL: SMPRAW-240

MODEL:	SMPRAW-120	SMPRAW-240
PRODUCTION RATE:	70 TO 120 CONTAINERS/MINUTE	90 TO 240 CONTAINERS/MINUTE
INPUT SPECIFICATION		
AMPOULE DIAMETER	9MM TO 21.5MM	9MM TO 21.5MM
AMPOULE HEIGHT	60MM TO 140MM	60MM TO 140MM
VIAL DIAMETER	14MM TO 56MM	14MM TO 56MM
VIAL HEIGHT	32MM TO 110MM	32MM TO 110MM
POWER SPECIFICATION:	4 H.P., 3 PHASE 50 HERTZ, 4 WIRE SYSTEM	4 H.P., 3 PHASE 50 HERTZ, 4 WIRE SYSTEM
OPTIONAL ACCESSORIES: (PLC HMI)	PROGRAMMABLE LOGIC CONTROL (SYSTEM) WITH MMI ALUMINIUM PROFILE CABINET COVERING FULL MACHINE	PROGRAMMABLE LOGIC CONTROL (SYSTEM) WITH MMI ALUMINIUM PROFILE CABINET COVERING FULL MACHINE
UTILITY:	AIR – 20 CFM WATER – 200 TO 500 LITER PER HOUR DEPEND UPON CONTAINER SIZE	AIR – 20 CFM WATER – 200 TO 500 LITER PER HOUR DEPEND UPON CONTAINER SIZE
WATER TANK & PUMP:	3 NOS. EACH WITH 25 LITERS CAPACITY & CENTRIFUGAL PUMP	3 NOS. EACH WITH 25 LITERS CAPACITY & CENTRIFUGAL PUMP
OVERALL DIMENSION:	2050MM (L) X 2000MM (W) X 1210MM (H)	2450MM (L) X 2000MM (W) X 1300MM (H)

AUTOMATIC AMPOULE WASHING MACHINE

STERILIZING&DEPYROGENATING TUNNELMODEL:SMPST- 750

SCOPE: The scope of supply of this specification covers Design, Fabrication, Testing, Inspection, Supply, Validation and Documentation of CONTINUOUS STERILIZATION & DEPYROGENATION TUNNEL FOR Vial LINE & VIAL LINE (COMBINATION LINE).

APPLICATION: Sterilization of Washed Ampoule for LIQUID Manufacturing Facility

The hot air along with moisture from the vials to be sucked out of the zone using a blower at the bottom of the conveyer.

The sterilization zone to comprise of electrical heater banks, which would elevate the temperature of the ambient air. Air to then pass through HEPA filters before coming in contact with the containers. The flow pattern of air in this zone to be such that the temperature at the end of this zone is nearly 50°C less than that at the center of the zone.

The Cooling zone & Stabilizing zone to be similar in construction to the drying zone. Air from both the zones to be removed using extract blowers. The exhaust Air to be extracted out through 0.3 u HEPA Module.

The exhaust ducts to also be fabricated using SS 304. The Drying Zone, Cooling Zone and the Stabilizing zone should be provided with polycarbonate view panels.

The HEPA filters used in all the sterilizing zone of the tunnel to be made using heat resistant material.

Differential Pressure Gauges to be fitted on drying zone, sterilizing zone, cooling zone & containment seal.

The machine to be provided with a man machine interface panel (PLC based) located on or near the machine.

This tunnel will be integrated with Vial washing machine and Vial filling machine. We expect co-operation from the vendors of these machine on and off the site to provide the necessary interlocks required for the trouble-free operation of the line.

SMPST - 450	450 mm	The output varies, depends upon the Container (Vials & Ampoules & Bottles)	For Vials I Ampoules Drying Zone Sterilization Zone Cooling Zone Stabilization Zone For Bottles Drying Zone
SMPST - 600	600 mm		
SMPST - 750	750 mm		
SMPST - 900	900 mm		
SMPST - 1200	1200 mm		



AUTOMATIC 4/6/8 HEAD AMPOULE FILLING AND SEALING MACHINE SMPAFS-300A

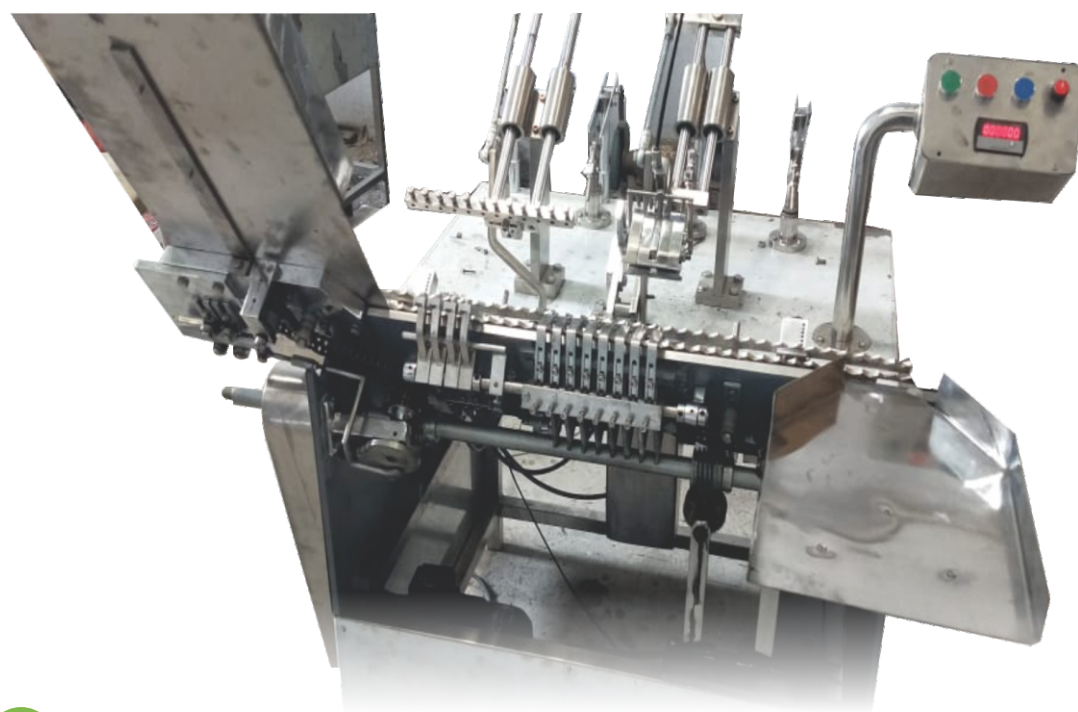
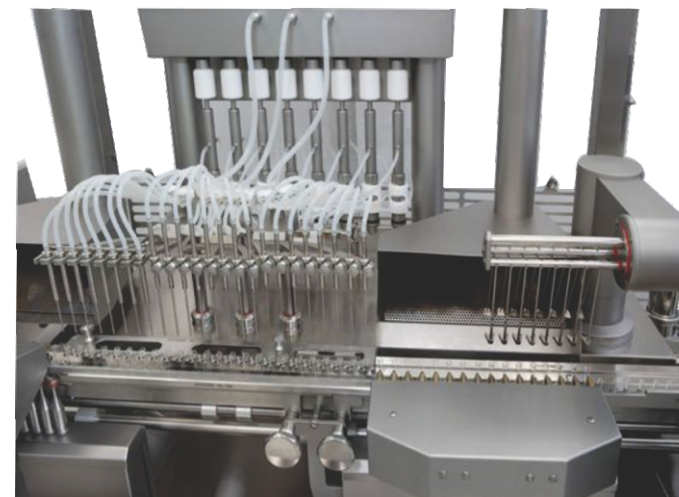
THE MOST ADVANCED AND HIGH-SPEED VERTICAL AMPOULE FILLING AND SEALING MACHINE WITH EIGHT HEAD IS QUITE SIGNIFICANT AS FAR AS THE PRODUCTION CAPACITY IS CONCERNED. PER MINUTE OUTPUT IS 80 TO 280 AMPOULES WITH 0.5ML TO 10ML FILLING CAPACITY IN SINGLE DOSE. AMPOULE FILLER AND SEALER WORKS WELL WITH THE VARIED AMPOULE SIZES RANGING FROM 1ML TO 10ML OPEN MOUTH GLASS AMPOULES. OUR AMPOULE FILLING AND SEALING MACHINES HAVING CE CERTIFICATIONS MANUFACTURE

PERATION: -

AMPOULES CAN BE INFEEED THROUGH SS CONVEYOR FROM A STERILIZING TUNNEL AND TRANSFER THEM TO A SEGMENT WHEEL TO CARRY ON TO A MOVING RACK, WHICH TRANSFERS THE AMPOULES IN VERTICAL POSITION THROUGH THE STATION ONE BY ONE. THE AMPOULES ARE DISCHARGED TO THE COLLECTION TRAY AFTER SEALING.

PRODUCTION CAPACITY CAN BE VARIED BASED ON THE SIZE OF AMPOULES. DESIGNED FOR 240 AMPOULES CAN BE PROCESSED PER MINUTE FOR 1ML SIZE. SIMILARLY, IF THE SIZE OF AMPOULE IS 2ML THAN 200 AMPOULES, 3ML 180 AMPOULES, 5ML 160 AMPOULES, 10ML 140 AMPOULES PER MINUTE OUTPUT CAN BE ACHIEVED.

ACTUAL OUTPUT CAN BE $\pm 10\%$ DEPENDING ON DIAMETER OF AMPOULES. – TOLERANCE AND DIAMETER $\pm 0.25\text{MM}$ & HEIGHT IS $\pm 5\text{MM}$.



TECHNICAL SPECIFICATION

MODEL NO.	SMPAFS – 80/ 120/ 240/ 300A (HIGH SPEED) ATTACHED TO STERILIZING TUNNEL)
ON LINE MODEL	
AMPOULE SIZES	1ML TO 10 ML OPEN MOUTH GLASS AMPOULES
FILLING CAPACITY	FROM 0.5ML TO 10ML IN SINGLE DOSE (WITH THE HELP OF CHANGE
PARTS	
FILLING TYPE	PISTON SYRINGE TYPE FILLING (VOLUMETRIC WITH SERVO PUMPS OPTIONAL)
CONTACT PARTS	STAINLESS STEEL AISI 316L (FOR FILLING NOZZLE & SYRINGE & PUMPS)
OUTPUT / MINUTE	60 TO 280 AMPOULES / MINUTE (DEPEND ON AMPOULES SIZES)
NO. OF HEAD FOR FILL & SEAL	EIGHT (VERTICAL)
REQUIRE GASES FOR SEALING	LPG & OXYGEN (MIXTURE)
NITROGEN PURGING	AVAILABLE (PRE & POST)
PRE HEATING	AVAILABLE
POWER REQUIRE	2 H.P., 380 VOLTS, 3 PHASE, 50 HZ (4 CORE WIRE SYSTEMS) OR 2 H.P., 220 VOLTS, 1 PHASE, 50 HZ R CUSTOMISED
OVER ALL DIMENSIONS	2950MM (L) X 1200MM (W) X 1500MM (H)
NET WEIGHT	1550 KGS.
GROSS WEIGHT	(WITH WOODEN CASE) 1900 KGS.

TECHNICAL SPECIFICATIONS OF THE DRY POWDER FILLING MACHINERY:

MODEL	SMPPF-120	SMPPF-240D
PRODUCT RATE	30 TO 120 VIALS/ MINUTE 7200 VIAL/HRS. MAX	30 TO 240 VIALS/ MINUTE 14,400 VIAL/HRS. MAX
INPUT SPECIFICATION: CONTAINER DIAMETER	25MM TO 58MM	25MM TO 58MM
INPUT SPECIFICATION: CONTAINER HEIGHT	36MM TO 95MM	36MM TO 95MM
INPUT SPECIFICATION: CONTAINER NECK DIAMETER	20MM, 28MM AND 32MM BUTYL	20MM, 28MM AND 32MM BUTYL
FILL CAPACITY	50 MG. TO 1.5 GMS WITH THE HELP OF CHANGE PARTS. UP TO 6 GMS FILLING BY MULTIPLE DOSING.	50 MG. TO 1.5 GMS WITH THE HELP OF CHANGE PARTS. UP TO 6 GMS FILLING BY MULTIPLE DOSING.
ACCURACY	+1% DEPENDING UPON CONSISTENCY & UNIFORMITY OF BULK DENSITY OF INJECTABLE POWDER UNDER CONTROLLED LEVEL OF HUMIDITY (BELOW 28% RH)	+ 1% DEPENDING UPON CONSISTENCY & UNIFORMITY OF BULK DENSITY OF INJECTABLE POWDER UNDER CONTROLLED LEVEL OF HUMIDITY (BELOW 28% RH)
OPTIONAL ACCESSORIES	PURE AIR FILTER, VACUUM PUMP, OIL FREE AIR COMPRESSOR, ONLINE PRE-MEDIA FILLING ARRANGEMENT, PROGRAMMABLE LOGIC CONTROL (SYSTEM) WITH MMI ALUMINUM PROFILE CABINET COVERING FULL MACHINE	PURE AIR FILTER, VACUUM PUMP, OIL FREE AIR COMPRESSOR, ONLINE PRE- MEDIA FILLING ARRANGEMENT, PROGRAMMABLE LOGIC CONTROL (SYSTEM) WITH MMI ALUMINUM PROFILE CABINET COVERING FULL MACHINE
COMPRESSED AIR	MAX. 2 KG. /CM2 OIL FREE	MAX. 2 KG. /CM2 OIL FREE
VACUUM	25 HG. @ 300 LPM DISPLACEMENT	25 HG. @ 300 LPM DISPLACEMENT
RELATIONAL HUMIDITY	BELOW 28%	BELOW 28%
OVERALL DIMENSION	2100MM (L) X 900MM (W) X1800MM (H) (DIMENSION INCLUDE MAIN MACHINE WITH IN-FEED TURN TABLE)	3000MM (L) X 1000MM (W) X 1800MM (H) (DIMENSION INCLUDE MAIN MACHINE WITH IN-FEED TURN TABLE)
ELECTRICAL LOAD	5 HP / 3.75 KW 410V 3 PHASE	6 HP / 4.5 KW 410V 3 PHASE



- "NO VIAL – NO FILLING" SYSTEM ELIMINATES WASTAGE OF COSTLY POWDER.
- OVERLOAD RELAY FOR ANY OVERLOAD ACCIDENT.
- FLEXIBLE TO SUIT FROM 5 ML. TO 100 ML. VIALS.
- ALL CONTACT PARTS ARE OF S.S 316L.
- QUICK CHANGE OVER WITH MINIMUM USE OF TOOLS.
- CONTACT PARTS ARE REMOVABLE FOR MANDATORY AUTOCLAVING.
- COMPACT CGMP MODEL.
- MULTIPLE DOSING SYSTEMS.
- INJECTABLE FILLING WITH ACCURACY OF $\pm 1\%$ OF UNIFORM DENSITY INJECTABLE POWDER CAN BE ENSURED BY SETTING THE DEPTH OF PISTON IN THE PORT OF POWDER WHEEL.
- BUILT-IN RUBBER STOPPERING UNIT SAVES LOT OF SPACE IN THE STERILE AREA & REDUCES THE LENGTH OF LAMINAR AIR FLOW (LAF).
- ALL MOTORS ARE PROVIDED WITH APPROPRIATE CONTACTORS AND RELAYS FOR THE PROTECTION AGAINST ANY OVERLOAD OR JAMMING.
- ROTARY TURN TABLE ATTACHED WITH THE DRY POWDER FILLING STOPPERING MACHINE FOR AUTOMATIC IN FEED OF VIAL ON CONVEYOR.
- SAFETY CLUTCH SYSTEM TO AVOID VIAL BREAKAGE.
- VARIABLE A.C. FREQUENCY DRIVE FOR SPEED ADJUSTMENT.
- ALL PARTS AND ASSEMBLIES COMING IN CONTACT WITH POWDER AND RUBBER STOPPER ARE MADE OF S.S.316 AND EASILY REMOVABLE FOR REQUIRED AUTOCLAVING/ STERILIZATION.
- S.S. SQUARE PIPE FRAME STRUCTURE TO AVOID ANY VIBRATION WITH ADJUSTABLE SCREWS TO ADJUST CONVEYOR HEIGHT – AS PER OUT FEED OF STERILIZING TUNNEL.
- ALL DRIVING IS THROUGH HIGH QUALITY IMPORTED GEAR MOTOR FOR BETTER MACHINE PERFORMANCE WITHOUT VIBRATION.
- IMPORTED GEAR MOTOR FOR MAIN DRIVE, IN FEED AND OUT FEED TURN TABLES.
- IT IS A COMPACT AND VIBRATION RESISTANT MODEL.
- TO AVOID THE USAGE OF EXPENSIVE POWDER, NO VIAL – NO FILLING PRINCIPLE IS FOLLOWED.
- TO SECURE AGAINST THE OVERLOAD, THE MACHINE IS CONFIGURED WITH ELECTRIC MOTORS WITH SPECIFIC CONTRACTORS AND RELAYS.
- ALL THE COMPONENTS ARE MADE WITH AISI SS.316.
- IMPORTED GEAR MOTOR FOR THE IN FEED AND OUT FEED PROCEDURE.
- WHOLE MACHINE IS SURROUNDED BY SPECIFICALLY MADE PROTECTION CABINET. **(OPTIONAL)**

FULLY AUTOMATIC INJECTABLE VIAL FILLING MACHINE LINE



AUTOMATIC ROTARY WASHING MACHINE

AUTOMATIC STERILIZING TUNNEL FOR AMPOULE & VIAL

AUTOMATIC VIAL FILLING MACHINE

AUTOMATIC SEALING MACHINE

AUTOMATIC STICKER LABELING MACHINE

AUTOMATIC ROTARY WASHING MACHINE

MODEL	SMPVW-300
PRODUCTION RATE	90 TO 260 AMPOULES / MINUTE 30 TO 110 VIALS / MINUTE INPUT SPECIFICATION
AMPOULE DIA	10MM TO 21.5MM
AMPOULE HEIGHT	60MM TO 140MM
POWER SPECIFICATION	3 HP
ELECTRICAL	440 VOLTS, 3 PHASE,
CHARACTERISTICS UTILITY	4 WIRE SYSTEM, 50 HERTZ
DISTILLED WATER	2 KG/CM ²
AIR	20 CFM @ 5 BAR
DM WATER	2 KG/ CM ²
RECIRCULATED WATER	2 KG/ CM ²
OVERALL DIMENSION	1590MM (L) X 1060MM (W)X 980MM (H)

AUTOMATIC STERILIZING TUNNEL FOR AMPOULE & VIAL

SMP – STERILIZING TUNNEL FOR AMPOULE & VIAL	
TUNNEL TYPES	STERILIZING & DEHYDROGENATION
USE FOR STERILIZATION	GLASS AMPOULES, VIALS & BOTTLES
TOTAL ZONE	PRE HEATING ZONE, STERILIZING ZONE, COOLING ZONE
CONVEYOR WIDTH	300MM, 450MM, 600MM, 750MM, 900MM & 1200MM
OUTPUT	DEPENDS ON BELT SIZE
CONVEYOR HEIGHT	900MM +/- 15MM
WORKING DIRECTION	LEFT TO RIGHT
POWER CONSUMPTION	DEPEND ON TUNNEL MODEL OR SIZE
DIMENSIONS	DEPEND ON TUNNEL MODEL OR SIZE

AUTOMATIC VIAL FILLING MACHINE

AUTOMATION GRADE	AUTOMATIC
OUTPUT PER HOUR	0 TO 240 VIAL
CONTAINER DIA	24 TO 90 MM
CONTAINER HEIGHT	75 MM
FILL SIZE	02 TO 50 ML
FILLING ACCURACY	+/-1% IN 1 DOSE
HEADS	2, 4, 6, 8, 12, HEAD
HEIGHT	800-850 MM
LENGTH	1500 MM
WIDTH	870 MM
NET WEIGHT	300 TO 1500 KGS.
POWER CHARACTERISTICS	440 V
RUBBER STOPPER	13/20 MM
ALL SYRINGE (OPTION)	SS 316 LPERISTALTIC PUMP
NON CONTACT PARTS	SS 304
HAVEY STRUCTURE	40 X 40 X 2.5MM SS 304 PIPE

AUTOMATIC SEALING MACHINE

AUTOMATION GRADE	AUTOMATIC
OUTPUT PER HOUR	0 TO 240 VIAL
CONTAINER DIA	24 TO 90 MM
CONTAINER HEIGHT	75 MM
HEADS	2, 4, 6, 8, 12, HEAD
HEIGHT	800-850 MM
CAP SIZE	13, 20, 25 AND 28 MM WITH THE HELP OF CHANGE PARTS
POWER CHARACTERISTICS	440 V
ALL CONTACT PARTS	SS 316
NON CONTACTS PARTS	SS 304

AUTOMATIC SSTICKER LABELING MACHINE

AUTOMATION GRADE	AUTOMATIC
OUTPUT PER HOUR	0 TO 300 VIAL
POWER	230 SINGLE PHASE AC 50HZ
MACHINE DIMENSION	1828 L X 610 W X 1200 H (MM)
CONVEYOR BELT LENGTH	6 FEET
ALL PARTS	SS 304
BOTTLE DIA	20 TO 120 MM
TOTAL POWER	2 HP
PLC & HMI	HMI TOUCH SCREEN
ALL MOTOR	CROMPTON GREEVES





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PRE-FILLED SYRINGE & RUBBER STOPPERING CLOSING MACHINE SMPPFS-5S

SM PHARMA SOLUTIONS has

been designed and built to conform to cGMP standards. It meets the most stringent quality requirements of the pharmaceutical industry in a wide range of formats and will meet the varied needs of every customer.

This ingenious system comprises of

1. Robotic Tyvek Removal System
1. Automatically opens tub barrels and peels them off
2. A de-lidding and de-lining machine to open sterile tubes
3. An infeed conveyor

SPECIFICATIONS	PRE-FILLED SYRINGE & RUBBER STOPPERING CLOSING MACHINE SMPPFS-5S
FILLING	FULLY AUTOMATED, GLOVELESS CGMP FILLING
HANDLING	ROBOTIC HANDLING OF GLASS PRE-FILLED SYRINGE AND STOPPERS
THROUGHPUT	BATCH SIZE RANGE OF 1,000-25,000 UNITS
CARTRIDGE SIZES	ALL STANDARD SYRINGE SIZES, INCLUDING 0.5, 10ML (< 1%) HELP WITH CHANGE PARTS
MATERIALS	SINGLE-USE FILL PATH AND PRODUCT CONTACT MATERIALS
INTERIOR	FULL 316L STAINLESS STEEL INTERIOR AND ROBOTICS
DECONTAMINATION	VAPOR-PHASE HYDROGEN PEROXIDE, CLEAN-IN-PLACE (CIP)
ENVIRONMENTAL MONITORING	AUTOMATED VIABLE AND NON-VIABLE ENVIRONMENTAL MONITORING
CONTROL SYSTEM	21 CFR PART 11 COMPLIANT
DIMENSIONS	4200MM L X 1800MM W X 2500MM H WITH GLOEVES CABINATE
PARTICLE LEVELS (OPTIONAL)	THE INTERIOR GLOVELESS ISOLATOR CAN MAINTAIN ISO 5 OR BETTER PARTICLE LEVELS. MACHINE CAN BE INSTALLED IN AN ISO 8 OR GRADE C / D ROOM (DEPENDING ON REGULATORY AREA).

Syringe Filling and Closing Machine is a fully Automatic filling and closing machine to process disposable, nested syringes. It is designed in a modular system and prepared for max 5 pumps output from 600/hr (2 land) up to 12000/hr (10 land). It has a compact, superior construction and the highest dosing accuracy that also assures sterility throughout the entire process. Size changeovers are easy to execute and settings for dosing volume, filling needle movement and stopper position are easily reproducible. It is a time pressure filling system with peristaltic pumps. This machine is available in manual, semi-automatic and fully automatic infeed system.

SALIENT FEATURES

A. Syringe Filling Machine Model: PFS-SA-10 is a compact, elegant and Matt-finished encompassed with stainless Steel (SS-304) **B.** Perfect synchronization of PLC based cycle, filling stroke valve less Syringes to fill volume for 0.2 ml to 5ml. (With help of change parts.) **C.** Filling accuracy will be 0.02 ml in case of 0.2 ml & for others it will depend upon fill material & fill volume. **D.** Compact and feather-touch MMI control panel for easy control of the machine Operation. **E.** The machine is equipped with easily adjustable levelling legs so foundation is not required. **F.** Nitrogen filter is provided pre-filter 0.5u. And final filter is 0.2u. Air ex. Is 0.2u? **G.** Vacuum pump is to be provide by SM PHARMA SOLUTIONS. **H.** Vacuum pump is to be installed outside the sterile area. **I.** Silicon tubes are under the scope of customer. **J.** Water line is required for cooling of vacuum pump chambers.

FULLY AUTOMATIC ROTARY PLUNGER ROD INSERTING MACHINE

This system has a plunger rod insertion module (single-lane version), with plunger rod infeed, pick up and swivelling unit, gripper movement unit, vibratory sorting bowl, 550mm for plunger rods. Inclined infeed chute for plunger rods with min/ max, accumulation SENSOR Plunger rod inserting plungers Syringe rotation drive with slip clutch, speed and torque allow fine adjustment. Finished in stainless steel
ALL SAFETY INTERLOCKING AND SENSORS AS PER GMP AND FDA REQUIREMENT. CE COMPLIANT.

AUTOMATIC SYRINGE DE-NESTER FOR REMOVING SYRINGES FROM THE NEST

1 land infeed chute for approximately 1 nest Intermittent nest transport Pneumatic controlled vertical and horizontal shaft for removing syringes Syringe pick up rail for one complete row of syringes Discharge chute for empty nests Infinitely adjustable speed

TECHNICAL INFORMATION

Syringes size: 0.5 – 10 ml nested syringes
Infeed: X-Y table
Dosing volume: 0.5- 10ml depending on selected pump size
Dosing system: Rotary piston pumps
Filling heads: 1-10ml
Output: 12000 syringes/hr
Capacity: 120 tub/hr
Syringe Packaging System

Model

Output	600 to 12000 Syringe/hours.
Filling height	775 – 875mm adjustable
Electrical rating	4.1. 110v / 230v. 50/60 Hz
Overall dimensions without isolator	4.2. 2HP, 3 Phases, 380/ 440V. 50 / 60Hz
	lengths: 2200mm
	Width: 1350mm
	Height : 2200mm

SMPPFS-10S

PRE-FILLED SYRINGE & RUBBER STOPPERING CLOSING MACHINE SMPPFS-5S

Automatic Stoppering cycle start one by one as per the programmed Stoppering cycle mentioned as under. 100 stoppers are plugged into the pre-filled syringes precisely after vacuum hold cycle. Now last cycle of nitrogen flushing with vacuum break completes the Stoppering operation. Program cycle for evacuation and Stoppering.

CYCLE OPERATION

- | | |
|--|---|
| A. Pre Evacuation in the chamber | F. Nitrogen flushing repeats. |
| B. Nitrogen flushing. | G. Vacuum creation with hold. |
| C. Vacuum Evacuation in the chamber | H. Plunging of stoppers inside the pre-filled syringes |
| D. Nitrogen flushing. | I. Nitrogen purging cycle with Vacuum break |
| E. Vacuum Evacuation repeats. | |





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AUTOMATIC EYE DROPS LIQUID FILLING, PLUGGING & CAPPING MACHINE

SM PHARMA SOLUTIONS was founded in 2018, with more than 17 years' experience manufacturing pharmaceutical packing machines. Based on its rich experience with liquid filling, plugging, and capping, it has developed an integrated liquid filler for 2cc-60cc volume containers available for processing

liquid filling, plugging and capping for eye drops, vials and oval solutions. The SMPLF-ED-120, machine have double lines while the have single lines.

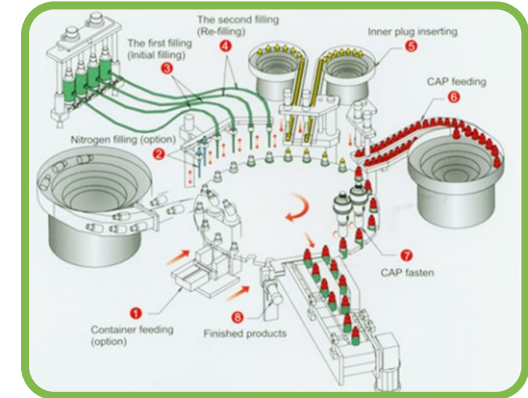
The housing and surface are covered with stainless steel. All liquid contacts are made from a corrosion resistant stainless steel 316.

Preventing particles be created adopt ceramic filling piston and cylinder. Liquid filling volume to be adjusted flexibly and precisely. The liquid filler has adopted two processing stages available for a gradual upward movement from the bottom of the bottle, to prevent spills and the forming of foam.

It is available for filling nitrogen. The capping system include cap vibrating feeding and capping with torque limiter that ensure caps are tightened. The electronic devices of this machine are controlled by an intelligent PLC, ensuring that no bottles are feeder, not liquid is filled ,no liquid is filled ,not plugs are inserted, no plugs are inserted, not caps are capped .It helps the whole production procedure remain smooth with control over quality.

FEATURES:

1. Automatic Liquid Filling, Plugging & Capping Machine is designed for automatic filling, inner plugging and capping onto small containers (eye drop, vial, cosmetics).
2. Compact combination set of bottle feeding, Nitrogen air filling ,liquid filling ,plugging & capping machine, providing labour savings & low space requirement.
3. Accurate volumetric filling designed by ceramic cylindrical pistons , filling tolerance is within $\pm 1\%$.
4. Ceramic filling piston and cylinder: able to wear away freely, able to be contaminated freely, with free particles and able to be cleaned easily.
5. The housing and surface are covered with stainless steel. All liquid contacts are made from corrosion resistant stainless steel 316, meeting the standards of **CGMP**.
6. Labour saving: The fillers have two container feeding systems. An automatic vibrating feeding system has been adopted in one , and an automatic turn table feeding system in the other. (option)
7. Optional nitrogen filling device.
8. The liquid filler has adopted two filling stages available for a gradual upward movement from the bottom of the bottle to prevent spills and the forming of foam.
9. Two inner plug feeding vibrator, ensure inner plug insert into bottle mouth smoothly.
10. The capping system include cap vibrating feeding and capping with torque limitersthat ensure caps are tightened.
11. Automatic stop device for no bottle , no plug , no cap , low air pressure.
12. Equipped with a torque limiter under the star wheel, in case machine stops due to crash of the container on the star wheel which in turn then protects the Index device.
13. This machine is controlled by a PLC, ensuring that no bottles are feeded, not liquid is filled, no liquid is filled , not plugs are inserted, no plugs are inserted not caps are capped.



● Ceramic piston & cylinder



● Application:



View for filling, plugging & capping



AUTOMATIC TABLETING MACHINE LINE



TECHNICAL SPECIFICATION

Description	Model SMPLF-ED- 30, 60, 120
Output/Min	20/120 Vials/Bottle (Depending on the nature the liquid the and its fill size or volume)
Power Characteristics	440v 3 Phase 50Hz 4 Wire System / 230 VAC 1 Phase 50Hz 3 Core Wire
Fill Volume	0.1ml to 100ml
Filling Accuracy	1% on Single Dose
Cap Dia	20mm, 25mm, 28mm
Net Weight	550 kgs
Machin Length	1600mm
Machin Width	1200mm
Machin Height	1800mm

AUTOMATIC DRY SYRUP LINE



AIR JET VACUUM CLEANING MACHINE

Model	SMPJC-120	
Output / Hour*	2600 to 6000	
Direction of Machine**	Left to Right	
Power**		
Consumption	Main motor	1.0 HP / 415 Volts / 50 Hz
	Pumps 2 nos	0.75 HP / 415 Volts / 50 Hz
Blower Tank Capacity	120 cfm	
Working height	850 to 900 mm	
	Consumption of Air 6 Kg/cm2	
Machine Dimension	2175 mm (L) x 780 mm (W) x 1550 mm (H)	
CaseDimensions	2500 mm (L) x 1000 mm (W) x 1750 mm (H)	
Net Weight	600 kgs	
Gross Weight	850 Kgs	

Note : * Depends on container size.
** We can supply as per customer requirements. *** With help of change parts.



AUTOMATIC DRY SYRUP POWDER FILLING MACHINE SERVO AUGUR TYPE SMPPF-30

Filling Machine	Auger Filler 30
Filling Mechanism	Servo Filling
Direction of Movement	Left to Right [Right to Left direction control available on request]
Number of Auger Filling / Heads	2
Output	Design Speed 30 Cans/ Minute 25 to 28 Cans/ Minute [Considered at 30 Grams, Where product having density of 0.4 gm/ml]
Fill Volume	5 Grams to 500 Grams [With the help of change part]
Standard Filling Funnel Set	30.0 Grams or As specified by User
Filling Accuracy	2% or ± 0.5 Gram Whichever is higher

AUTOMATIC HIGH SPEED 4/6/8 HEAD ROPP/SCREW CAPPING MACHINE SMPSC-150



Output / Hour	3600 to 6000 bottles	3600 to 9000 bottles	4000 to 12000 bottles
Direction of Movement	Left to Right		
No. of sealing head	4 Nos.	6 Nos.	8 Nos.
Electrical Specification			
Main Motor	2.0 HP / 415 Volts / 50 Hz 300 Watt.		3HP / 415 Volts / 50 Hz
Cap feeding Bowl	0.25 HP WITH AC DRIVE CONVEYOR MOTOR 0.5HP WITH AC DRIVE		
Height of Conveyor	860 mm to 910 mm		
Machine Dimensions	2135mm(L) x 1120mm(W) x 2250 (H) Approx	2150 mm (L) x 1120mm(W) x 2250 (H) Approx	2135 mm (L) x 1200mm(W) x 2225 (H) Approx
Case Dimensions	2650mm(L) x 1250mm(W) x 2250 (H) Approx	2650mm(L) x 1250mm(W) x 2250 (H) Approx	2650 mm (L) x 1350 mm (W) x 2250 (H) Approx
Net Weight	900 kgs, Approx.	900 kgs, Approx.	1050 kgs, Approx.
Gross Weight	1250 kgs, Approx	1250 kgs, Approx	1400 kgs, Approx
Change parts required	(A) Container: Star Wheel, Back Guide, Feed Worm (B) Cap Die, Delivery chute, bowl & S.S. Star wheel		

STICKER LABELING MACHINE



Model	SMPSL - 150
Direction of Movement	Left to Right
Output/Hour*	3600 to 9000 Nos.
Fill Size***	5 ml to 1000 ml
Electrical Specification**	0.50 HP, 415 Volts, 50 Hz
Conveyor Motor	0.25 HP,
Pressing Device Motor	220 Volts, 50 Hz
Sticker Roll Stepper Motor	6V DC
Height of Conveyor**	860 mm to 910 mm
Machine Dimensions**	1835 mm (L) x 600 mm (W) x 1450 mm (H)
Case Dimensions	2050 mm (L) x 800 mm (W) x 1650 mm
Net Weight	350 Kgs.
Gross Weight	600 Kgs.

* Depending on the shape and size of container and label size.
** Can be supplied as per customer requirements.



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MINI COLLOID MILL WITH 3 H.P. MOTOR WITH CONTACT PARTS SS 316 & NON CONTACT PARTS (SS 304)



V BLANDER

MINI MULTI MILL 2HP MOTOR WITH CONTACT PARTS OF SS 316 AND NON CONTACTS PARTS OF SS 304 WITH CASTER WHEEL 12 KNIFE & 2 SCRAPPER



OSCILLATING GRANULATOR

VIBRO SIFTER 20" WITH SS 316 CONTACTS PARTS & NON CONTACT PARTS OF SS 304 WITH CASTER WHEEL



DUST EXTRACTOR

PAST KETTLE 25 LITER AUTOMATIC 210 V - 50 - 60 HZ



TABLET COUNTING VIBRATORY CHANNEL



OCTAGONAL BLANDER



MONO-BLOCK LIQUID FILLING MACHINE



PACKING CONVEYOR



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