



## ***HMPL ACCUFILL RPFS R&D Prefilled Syringe Machine***



The HMPL ACCUFILL RPFS R&D is an advanced, compact, and integrated system designed for the precise packaging of pre-filled syringes, pre-crimped cartridges, and vials. Engineered for R&D and exhibit batch production, this machine is optimized for use with pre-washed and sterilized devices, ensuring maximum hygiene and efficiency throughout the filling process. A compact and combo system for comprehensive packaging of pre-filled syringes/pre-crimped cartridges and vials up to 10ml. This system is aptly suitable for the pre-washed and sterilized devices packaging process. This system has one peristaltic pump-driven filling station, one rubber stopper placement\*(Interchangeable for vials with required change parts) station & one cap sealing station. All the operations are duly synchronized with the servo motor for accurate, precise performance. The system is suitable for R&D/ exhibit batch production & has rated output @15-20 devices per minute for 1ml fill volume.

### **Features**

#### **Automation-B:**

- 7" Color display
- Panel Accessories
- Sensor
- AC drive
- PLC and modular

#### **Filling Unit:**

- Peristaltic pump-based filling unit. OR servo-based syringe (0.5 ml to 5 ml)
- Syringe up down through ball screw assembly.
- Ball screw rotating by servo motor.

- Ball screw mounting plate (aluminum and SS).

### **Linear Vibrator and Rotary Vibrator with Bowl Unit:**

- Linear vibrator for rubber stopper.
- Linear vibrator for aluminium cap.
- Rubber stopper rotary vibrator with bowl.
- Aluminum chute for rubber stopper and aluminum cap.
- SS 304 up-down pillar assembly for rubber stopper and aluminum cap vibrator bowl.
- Sensor for rubber stopper in chute.

### **Basic Machine with Change Parts:**

- One set star wheel and back guide (material use black or white Delrin).
- Output Speed 15-20 Devices/ Minute L Volume @1ML Fill
- Machine output 15-20 PFS per minute for 1 ml syringe

### **Body Structure:**

- Square pipe structure 40\*40\*2.0 mm thick (material use SS 304).
- Body doors 1.2 mm thickness (material use SS304).
- Machine top plate (material use MS 10 mm with SS 1.5 mm cladding).
- Door handles (material used-nylon.)

### **Security Enclosure:**

- Cabinet structure (material SS304)
- Cabinet doors (material used – Polycarbonate/ toughened glass).
- Door handles & hinges (material use-SS 304 & nylon).
- Aesthetic look at door magnet assembly (self-developed).

### **Technical Data**

<b>Applicator Shape &amp; MOC</b>	Pre-washed & sterilized PFS/ Vials/ Pre-Crimped Glass Cartridges
<b>Volume of Syringes</b>	1ml-10ml* Change Parts Supported
<b>Filling Material</b>	Water Based Liquid/ Suspension/ Aqueous
<b>Output Speed</b>	15-20 devices per min @1ml for aqueous drug
<b>Direction</b>	Left to Right
<b>No. of Filling Station</b>	1 NOS
<b>No. of Rubber Stoppering Station</b>	1 NOS
<b>Direction of Movement</b>	Left to Right
<b>Power Requirement</b>	16 AMP (Main input supply cable 1.5 sq. mm 3 core)
<b>Power Supply</b>	Single Phase/ 230 V AC/ 50 Hz
<b>Accuracy</b>	± 2%
<b>Working Height</b>	850 mm ± 50 mm Adjustable
<b>Net Weight</b>	1100 kg Approx.
<b>Dimension</b>	2000 mm (L) x 1000 mm (W) x 1950 mm (H) Approx.