



Richpeace®

Richpeace Automatic Foldable Mask Continuous Production Line (Earloop Welding)

RPFM-A-C-S-FI-RI-UE1-1BC-3P380



Technical Features

1. Fully automatic production for N95 and KN95 foldable masks. 3-6 layers fabrics feeding auto-aligned, nose clip feeding and cutting (optional), pattern embossing, inkjet printing (optional), earloop welding, folding, mask edge sealing, final mask cutting and collecting and scrap removing, the whole process are fully automatic running.
2. Richpeace self developed computer control system, equipped with touch screen operation panel, stable running and easy to operate.
3. Optional automatic inkjet printing device in the production line, stable and reliable with clear printing.
4. Embossing roller can be customized according to customer requirements as option.



Application

For automatic production of foldable masks (N95, KN95, etc.)



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Machine Parameter & Configuration

Main Parameter		Main Configuration	
Model	RPFM-A-C-S-FI-RI-UE1-1BC-3P380	Servo Motor	SCHNEIDER (France)
Mask Type	Foldable masks (N95, KN95, etc.)	Control System	RICHPEACE
Mask Size	Folded Size 161mm×109mm	Sensor	OMRON (Japan) SICK (Germany)
Productivity	30-45pcs/min.(Max.30pcs/min. with breathing valve)	Pneumatic Component	AirTAC (Taiwan, China) SMC (Japan)
Raw Material	Hydrophilic non-woven fabric, melt-blown non-woven fabric,thermal bonding non-woven fabric	Belt	BANDO (Japan)
Layers	3-6 Layers	Machine Base	RICHPEACE
Process Mode	Ultrasonic welding + Cutting	Cable	IGUS (Germany) ECHU (China)
Pattern Roller	Customized by sample	Cable Carrier	IGUS (Germany)
Earloop Fixing	Ultrasonic welding	Guide Rail	HIWIN (Taiwan, China)
Air Pressure	0.6MPa	Bearing	KOYO/NSK
Machine Power	11kW	Lead Screw	TBI (Taiwan, China)
Power Supply	3-phase 380V/50Hz	Operation Panel	10 inches touch & control screen
Ultrasonic Generator	Lingke 220V, 15kHz, 2.6kW Lingke 220V, 20kHz, 1.5kW Conprofe 220V, 20kHz, 2.0kW		
Installation Area	10200mm×2100mm×2150mm (L×W×H)		
Optional Devices	1. Infrared protection device 2. Special embossing roller (embossing, edge sealing, cutting) 3. Built-in inner nose clip device 4. Built-in valve holing device 5. Built-in inkjet printing device (single side) 6. Built-in sponge-strip sticking device 7. Built-in ultrasonic breathing valve welding		

Packing Sizes

Fabric Loader	2950mm×1000mm×2150mm	Folding+ Sealing	2060mm×1100mm×1350mm
Nose bridge +Embossing+inkjet	2100mm×1200mm×1550mm	Cutting + Discharging	1250mm×1100mm×1350mm
Earloop Welding	1550mm×1100mm×1700mm	Electric Control box cabinet (wooden box)	1400mm×400mm×800mm &950mm×350mm×600mm

Production Line Layout

Unit : mm

