



**Design,  
Supply & Support**

One Stop Solution to your Filters Production

# **PLM FILTER SOLUTION**

**Primary Medium HEPA Filter Line**

**Hebei Leiman Filter Material Co., Ltd**

**Hebei Luman Filter Parts Co., Ltd**

**Hebei Deman Technology Co., Ltd**



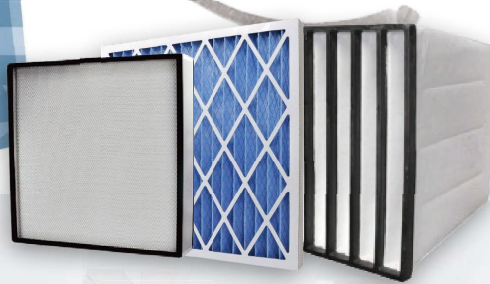




### To start a new factory, you may want to know:

- How much profit can I get from producing filters?
- How much money do I need to invest to build a complete filter line?
- What kinds of machinery and raw materials do I need to purchase?
- If I don't know how to operate the machinery or have questions about the filter production flow, how can I solve these problems?
- How can I train my workers to operate the machines smoothly?

*More...*



## What You Need is Exactly What We Can Supply.

Our company is started from Hebei Leiman Filter Material Co., Ltd., established in 1990, with over 30 years of experience in filtration industry.

We established PLM brand in 2018 to offer one stop solution for filter manufacturing, provide complete turnkey solutions and customized production lines, including air, oil, and industrial filters, covering automotive and industrial applications. With a 10,000 m<sup>2</sup> factory, 300+ machine types, and strong in-house manufacturing capability, we deliver over 400 machines annually.

All equipment is ISO9001, SGS, and CE certified. We have cooperated with more than 10 global brands like MAHLE, HENGST, and Parker, etc. To date, we have served more than 300 customers and helped many of them successfully achieve complete line installation, trial production, and stable mass production.

You are welcome to contact us for consultation and customization!





WHY CHOOSE US?

## → One-stop Filter Production Solution

We provide one-stop solutions for the filtration industry, including site selection, factory setup, plant layout and capacity planning, equipment matching, material selection, worker training, and delivery of smooth factory production.



Provide customized equipment solutions for well-known brand factories



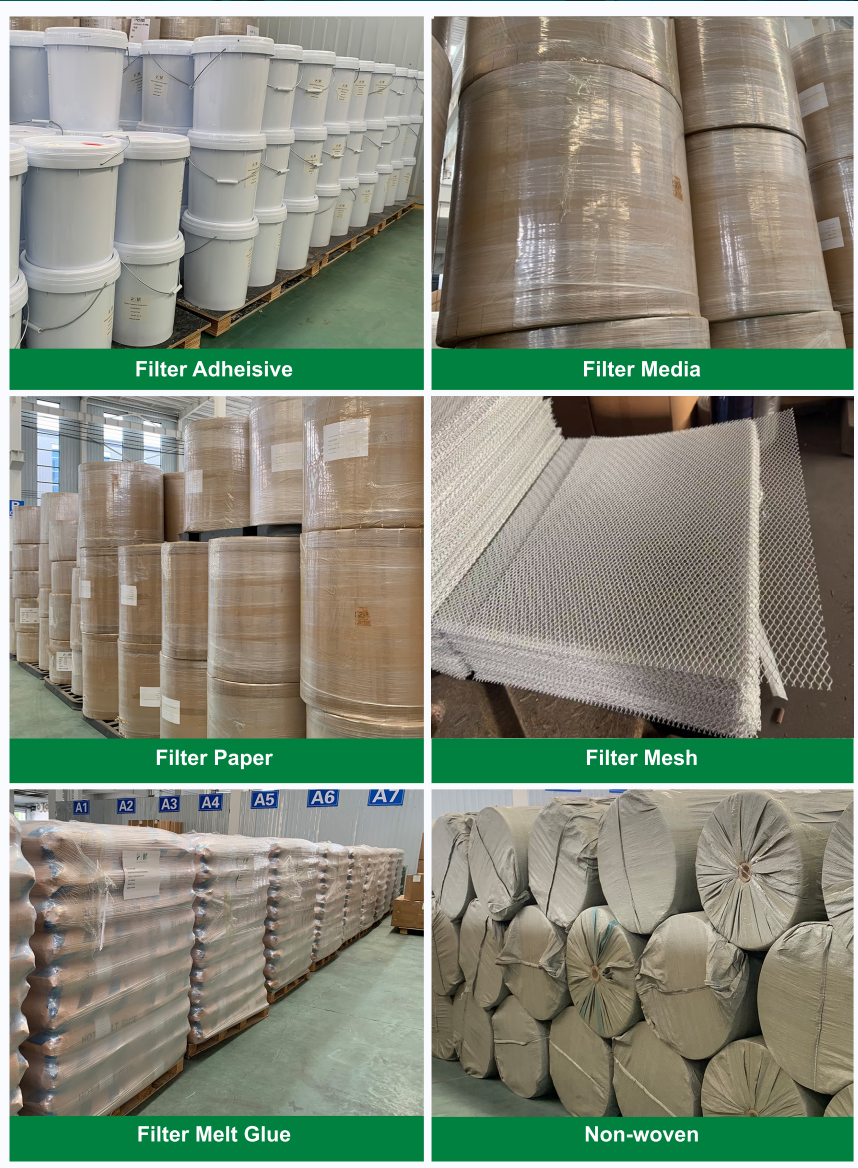


WHY CHOOSE US?



## Qualified and Certification

- Our PLM GROUP equipment is all CE certified and meets global export qualifications.
- We hold ISO9001 Quality Management System Certification and SGS Certification.



WHY CHOOSE US?

→ **Wide Variety Category**

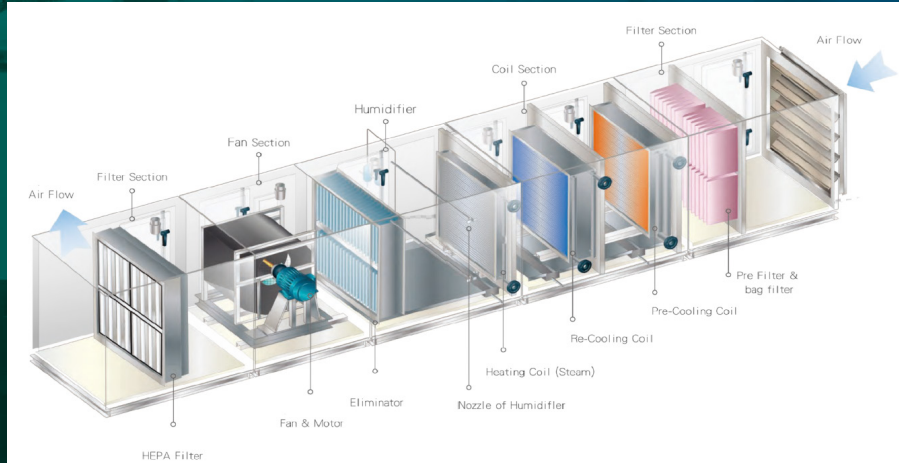
- Annual production over 400 machines, over 15 high-quality complete production lines;
- With the annual launch of new machines reaching more than 30 models, and raw material updates to 200 models



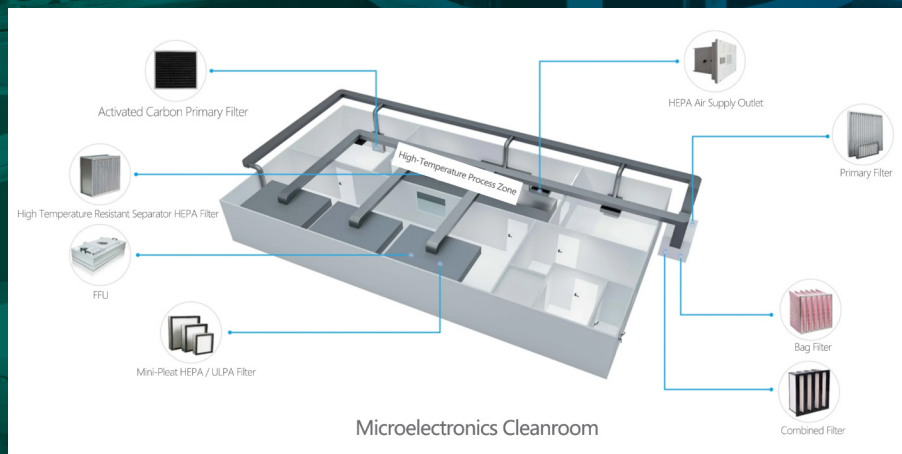


APPLICATION SCENARIOS

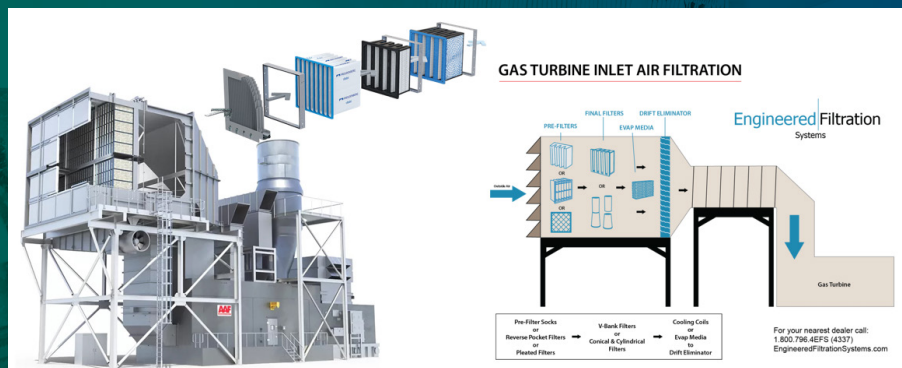
## → Primary Air Filter



## Medium Efficiency Air Filter



## HEPA Air Filter





# WHY CHOOSE US?

## → Service and Support

PLM has its own design and sales team, capable of helping customers design production line layouts that meet process requirements based on the production process. According to the customer's requirements, the automation level was adjusted, equipment combinations and optimizations were implemented, achieving the overall line solution, material matching, process support, and training implementation.

- We provide a one-stop solution, helping customers build a factory from scratch.
- We assist customers in moving from "able to produce" to "stable production," improving the yield rate and customer satisfaction rate.
- We focus on the matching degree of equipment at the customer's site and the stability of the production cycle.



### Eng. Zhang

---

R&D Chief Technician  
20 years experience Experts Familiar with the production process and equipment of various products.



### Eng. Wang

---

R&D Senior Technician  
15 years experience Experts in filter machines Installation and production



### Eng. Zhang

---

R&D Senior Technician  
18 years experience Experts in punching and electrical



# Content

<b>Low Efficiency Filters</b> .....	<b>P10 – P19</b>
Panel Filter .....	<i>P11 – P12</i>
Filter Machine .....	<i>P13 – P14</i>
Filter Material .....	<i>P17 – P19</i>
<b>Medium Efficiency Filters</b> .....	<b>P20– P33</b>
Bag Filter .....	<i>P21 – P22</i>
Filter Machine .....	<i>P23 – P32</i>
Filter Material .....	<i>P33</i>
<b>HEPA/ULPA Filters</b> .....	<b>P34 – P47</b>
HEPA Filters .....	<i>P35 – P36</i>
Filter Machine .....	<i>P37 – P44</i>
Filter Material .....	<i>P45 – P47</i>
<b>Dust Collection Filters</b> .....	<b>P48– P56</b>
Pleated Dust Collector Filter Bags and Cartridges .....	<i>P49</i>
Filter Machine .....	<i>P50 – P54</i>
Filter Material .....	<i>P55 – P56</i>

# Low Efficiency Filters

## 1. Panel Filter

Card Board Panel Filter-Pleated  
Metal Panel Filter-Pleated  
Pre-wash Filters

## 2. Filter Machine

PLFH-700 Filter Materials Compositing Machine  
PLCZ100-800-II Full-Auto Knife Paper Pleating Machine  
PL-AUTO55-1050F Automatic Knife Pleating Machine  
PLZD-700 Full-auto Compositing Materials Pleating Machine  
PLM-PFZJ-1 Paper Frame Gluing Machine Paper Frame Gluing Machine  
PLM-PFHD-1 Paper Frame Drying and Setting Machine  
PLM-ZKZZ-1 Semi-automatic Paper Frame Filter Assembling Line  
PLM-PFLG-1 Automatic Shelf making Machine  
PLM-AB-1 Adhesive Dispensing Machine, Flexible Hand Holding

## 3. Filter Material

Coarse Cotton Fiber Filter Material  
Crude Polyester Fiber Filter Material  
Mesh Material composite Material: Square and Expanded Mesh  
Hot Melt Glue  
White Latex  
Two-component Polyurethane Adhesive

## 1. Card Board Panel Filter-Pleated



### Description

Die Cut frame of non-flammable Kraft liner beverage Board-lightweight, resists moisture. Synthetic non woven or Polyester media with wire support Grid.

### Advantages

- Economic operation and high filtration surface
- Supported media bonded onto a wire support grid
- Low pressure drop
- High dust holding capacity
- Moisture resistant cardboard frame
- Available at out of standard size

Filter Media	Synthetic Fiber/Polyester Media	
Frame Material	Cardboard-Die Cut Frame	
Average Efficiency	80-90%	90-95%
Classification(EN 779:2002)	G4	M5
Initial Pressure Drop	50Pa	70Pa
Final Pressure Drop	250Pa	250Pa
Max.Temperature	100 °C	100 °C
Max.Moisture	100%	100%

## 2. Metal Panel Filter-Pleated

### Expanded Surface Metal Frame Pre-Filter



### Description

Galvanized, Aluminum, Stainless Steel and mild steel with powder coated Frame, Synthetic Non woven media with one side HDPE Mesh and other side expanded aluminum mesh support.

### Advantages

- Economic Operation and high filtration surface
- Low pressure drop
- High dust holding capacity
- Washable Filter Media also Available at out of standard size

Technical Data		
Filter Media	Synthetic Non-Woven media	
Frame Material	Galvanited Steel/Aluminum/CRCA coated	
Average Efficiency	80-90%	>90%
Classification	G3	G4
Initial Pressure Drop	75Pa	85Pa
Final Pressure Drop	450Pa	450Pa
Max.Temperature	100 °C	100 °C
Max.Moisture	100%	100%

### 3. Pre-wash Filters

#### Can be cleaned and reused, saving costs

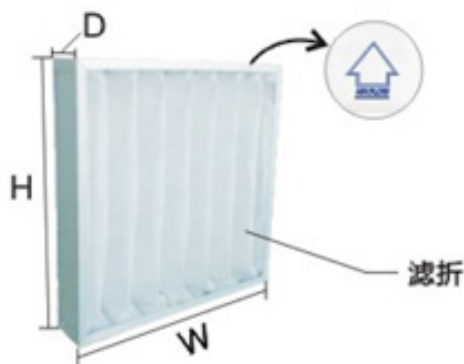
After using the washable plate filter for a period of time, it can be cleaned by air gun back blowing and reused, maximizing the savings in operating costs.

#### Wide range of wind speed usage, suitable for various occasions

Adopting a mesh iron wire mesh/galvanized iron framework to support the filter material, the conventional operating wind speed can reach 2.5m/s, which can meet the operating wind speed requirements of various ventilation systems.

#### Efficiency level: G3, G4, M5 (EN779)

According to EN779 standard testing, the efficiency of PreWash filters can be divided into G3, G4, and M5, suitable for primary filtration in various ventilation systems.



#### Direction

The height direction of the product's border is perpendicular to the ground, that is, the filter fold is perpendicular to the ground.

#### Installation method

Wind direction: Please follow the wind direction indicated on the product label.

Frame	aluminum alloy
Filter material	PET
DCN	Rust proof iron framework/rust proof support net
Maximum service temperature	70 °C
Maximum operating humidity	100%RH

## 1. PLFH-700 Filter Materials Compositing Machine



Production capacity	3 m/min
Material width	≤700 mm
Material roll diameter	≤Φ800 mm
Power	4 kw
Motor Power	0.75 kw
Supply voltage	380V/50 HZ
Working air pressure	0.6 MPa
Machine weight	500 kg
Overall dimensions	4161×1170×1400 mm(L*W*H)

## 2. PLCZ100-800-II Full-Auto Knife Paper Pleating Machine



Maximum product width	800 mm
Adjustable folding height range	10-100 mm
Pleating speed	0-100/min adjust
Power	380V/50 HZ
Motor power	1.1 KW
Preheating power	4 KW
Temperature range	Normal -200 °C
Working air pressure	0.6 MPa
Overall dimensions	1670*1720*1800 mm
Machine weight	600 KG

### 3. PL-AUTO55-1050F Automatic Knife Pleating Machine



Maximum width of product	1050 mm
Adjustable folding height range	4-100 mm
Speed of origami	0-220 fold/min
Supply voltage	380V/50 HZ
Motor power	4 KW
Preheating power	8 KW
Temperature control range	Room temperature -300 degrees
Working air pressure	0.6 MPa
Weight of machine	700 kg
Dimensions of form	2600×1800×1800 mm

### 4. PLZD-700 Full-auto Compositd Materials Pleating Machine



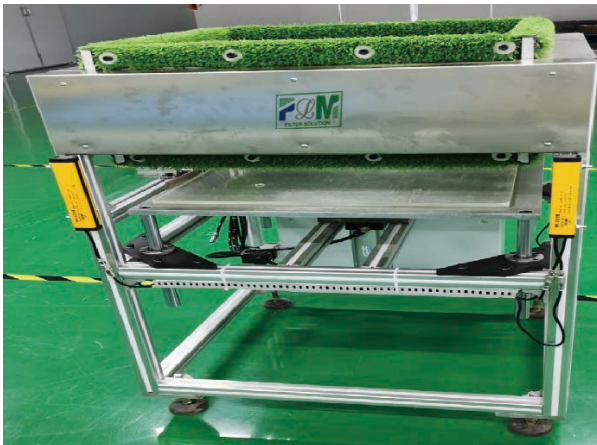
Production capacity	3 m/min
Pleating height	20~300 mm (adjust)
Product width	≤700 mm
Composite filter material roll diameter	≤600 mm
Power supply	220V/50 HZ
Air pressure	0.6 MPa
Weight	500 kg
Size	2030×1120×1620 mm (L*W*H)

## 5. PLM-PFZJ-1 Paper Frame Gluing Machine Paper Frame Gluing Machine



Speed of production	200-300 groups/hour
Total power	0.75 kw
Maximum width	1000 mm Special size can be customized
Dimensions of form	1350×500×1200 mm
Weight of equipment	280 kg

## 6. PLM-PFHD-1 Paper Frame Drying and Setting Machine



Machine operation speed	1-2 s/piece
Dimensions of equipment	650*650*1200 mm
Weight of equipment	200 kg
power	4 KW
Gas source	0.6 Mpa

## 7. PLM-ZKZZ-1 Semi-automatic Paper Frame Filter Assembling Line



Worker	2 people
Design production capacity	2000 pieces / 8 hours
Coverage area	Width 4.5 m * length 6.8 m (excluding finished product area)
Total power	8 KW

## 8. PLM-PFLG-1 Automatic Shelf Making Machine



### Characteristics

- The length control is accurate, the error is within 1mm;
- Servo motor control, adjustable speed;
- Man-machine control, simple and intuitive;
- With counting detection function;
- The material needs to be worn manually.
- Stable welding, solid solder joints;
- The horizontal spacing is adjustable;
- Adjustable width;
- Pneumatic bending machine

Speed of production	120-150 sets/hour
Total machine power	12 kw
Gas consumption	15 L/min
Power supply	Three-phase 380V four-wire (16 square)
Dimensions of form	11000×1500×2100 mm
Weight of equipment	2400 kg
Fit steel wire	3.2-4 mm
Width adjustment range	300-1000 mm

## 9. PLM-AB-1 Adhesive Dispensing Machine, Flexible Hand Holding



### Specification

1. Operation mode: Handheld dispensing
2. Tank volume (A, B): 60 L, 35 L
3. Theoretical glue injection volume: 5-15 g/sec
4. Working air pressure: 0.4-0.7 MPa
5. Input voltage: AC 220V 50 Hz/60 Hz
6. Equipment power: 4 kW
7. Overall machine weight: About 300 kg
8. Overall machine size: Approximately 1400 × 1300 × 2000 mm

## 1. Coarse Cotton Fiber Filter Material



### Product Performance

- Compared with similar chemical fiber products, low resistance, large dust capacity;
- Products with waste cotton fiber as raw material, degradable, economic and environmental protection, no pollution;
- The whole product design for flame retardant, can achieve UL2 certification;
- Low weight, low cost and low price.

Type	Basic W.g/m <sup>2</sup>	Thickness (mm)		Air Pemeability	Color
		(5kpa) pressure	(5kpa) Natural Thickness		
LM-QM-65	65	0.6 ± 0.1	3.2 ± 0.5	≥ 4300	Blue, green and yellow, ect.
LM-QM-80	80	0.10 ± 0.1	3.8 ± 0.5	≥ 3300	Blue, green and yellow, ect.
LM-QM-90	90	1.12 ± 0.1	4.0 ± 0.5	≥ 3100	Blue, green and yellow, ect.

## 2. Crude Polyester Fiber Filter Material



### Product Performance

The product is non-toxic, tasteless and completely disposable

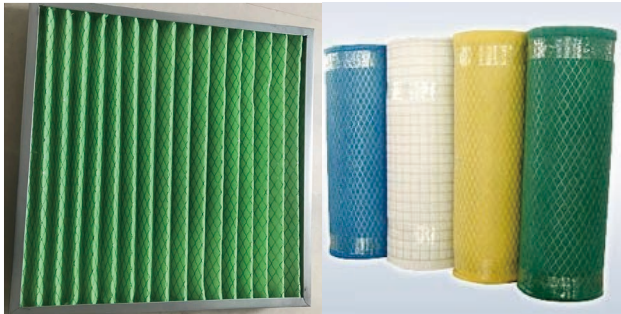
Filter material density step by step higher polyester fiber

Small initial resistance, high efficiency, large dust capacity, water washing resistance

Good flame retardant, fire rating UL2

Type	Basic W.g/m <sup>2</sup>	Thk.mm	Test vol m/s	Resistance	Efficiency			Applications
					≥1μm	≥2μm	≥5μm	
LM-J-10	120	3 ± 1	1.5	≤ 20	≥15	≥ 35	≥ 45	G2panel filter
LM-J-11	200	4 ± 1	1	≤ 30	≥ 18	≥ 60	≥ 75	G3panel filter
LM-J-13	250	5 ± 1	0.5	≤ 40	≥ 35	≥ 45	≥ 80	G3bag filter
LM-J-14	380	8 ± 1	0.5	≤ 45	≥ 40	≥ 50	≥ 85	G3bag filter
LM-J-40	400	3 ± 0.5	1	≤ 130	≥ 30	≥ 70	≥ 85	Safe filter core
LM-J-22 I	260	5 ± 1	1	≤ 35	≥ 35	≥ 25	≥ 60	G4bag filter
LM-J-22 II	380	8 ± 1	1	≤ 55	≥ 45	≥ 85	≥ 90	F5bag filter
LM-J-26	570	3 ± 0.5	1.7	≤ 200	≥ 70	≥ 90	≥ 95	Oil filtrationdust, collection
LM-R-12	100	2 ± 0.5	1.5	≤ 15	≥ 15	≥ 35	≥ 45	G3panel filter
LM-R-15	280	12 ± 1	1.5	≤ 35	≥ 25	≥ 50	≥ 65	G3panel, roll filter
LM-R-16	300	20 ± 1	1	≤ 50	≥ 35	≥ 70	≥ 80	G4panel, roll filter
LM-R-17	150	8 ± 2	1.5	≤ 25	≥ 15	≥ 30	≥ 25	G2panel filter
LM-R-18	260	12 ± 2	1.5	≤ 35	≥ 18	≥ 45	≥ 65	G3panel, roll filter
LM-R-19	300	20 ± 2	1.2	≤ 65	≥ 35	≥ 65	≥ 80	G4roll filter
LM-R-20	280	8 ± 1	1	≤ 55	≥ 45	≥ 70	≥ 90	F5bag filter
LM-R-23	210	5 ± 1	1	≤ 30	≥ 25	≥ 50	≥ 65	G3panel, roll filter
LM-R-24	230	7 ± 1	1	≤ 40	≥ 30	≥ 50	≥ 70	G4bag filter

### 3. Mesh Material composite Material: Square and Extended Mesh



#### Product Description

A layer of metal mesh or stiff plastic mesh on the air surface of coarse and medium effect filter material, thus increasing the stiffness and hardness of the material. It is easy to shape after folding, and does not deform under large air volume. This material is smooth and firm, and can be widely used in coarse and medium effect plate frame filter.

### 4. Hot Melt Glue



#### Product Description

Hot melt glue, also called hot melt adhesive is widely used in air filters and oil filters for bonding, shaping and assembling in the production process. Because hot melt glue is environmental protection and fast curing, which can increase production efficiency. Different filter applications have different requirements for the characteristics and materials of filter hot melt glue.

Product model number	F-280
Applications	Filter bonding
Product appearance	White grain
System	Polyolefin system
Smell of product	Smell minimal
State of melt	Colorless transparent
Speed of curing	Medium speed
High temperature resistance	> 70 °C
Dilute consistency /180 °C	3000±500 cps
Softening point /°C	105±5 °C
Glue out performance	Even and flat
* Recommended operating temperature	Rubber box - rubber tube - rubber nozzle=150 °C-130 °C-130 °C

## 5. White Latex



Brand	PLM
Curing time	About 24H
Color	Milky white
Warranty period	12 month
Characteristics	Water-based environmental protection without formaldehyde
Purpose	Can stick wood, wooden crafts, filter paper and cloth products
Storage	Store in a cool and dry place
Place of origin	China
Conditions of construction	5-35 °C Avoid construction in rainy, high temperature and frost weather

## 6. Two-component Polyurethane Adhesive

Brand	Main Agent NT 1042/6	Curing Agent NT HD5105
Color	Off-white	Light yellow
Traits	Fluid	Fluid
Density (g/cm <sup>3</sup> )	1.63±0.05	1.15±0.05
Viscosity(mpa s)	10000±4000	400±100
Viscosity	Brookfield DV-C	-
Mixing ratio(by weight)	2	1
Mixture (Main agent +curing agent)		
color	Light off-white	
Traits	Fluid	
Density (g/cm <sup>3</sup> )	1.39±0.05	
Operating time(min)	3-4(adjustable)	
Surface drying time(min)	6-8(adjustable)	
Fully cured	3-5 days later	
Tensile shear strength(Mpa)	>4.0	
Water absorption(%)	<0.2	
Shrinkage(%)	<0.2	
Hardness(Shore A)	90±5	
Applicable temperature range	-40 to 110	

# Medium Efficiency Filters

## 1. Pocket Filter



Pocket Filter - Fine Bag  
Pocket Filter - Dura Bag  
Trapezoidal Bag Filter Line

## 2. Filter Machine



PLM-BF-0301 Automatic Outer Frame Forming Machine  
PLM-MFNK-1 Automatic Inner Frame Molding Machine  
PLM-LNK-1318 L-shaped Inner Frame Machine  
PLM-MFT-1 Automatic Clip Forming Machine  
PLM-MFYJ-1 Oil pressure Fixture Set  
PLM-MFDZ-1 Bag Assembly Table  
PLM-MFNM-1 Inner Frame Riveting Machine  
PLM-LCJ-2046 Automatic Aluminum Profile Stamping and Cutting Machine  
PLM-JTNK-1 Auto Strip Clamping Machine

PLM-MFLG-1 Automatic Shelf Making Machine  
PLM-MFWK-1 Outer Frame Punching Machine  
PLM-MFQG-1 45 ° Double Head Cutting Machine  
PLM-MFQG-1 90 ° Cutting Machine  
PLM-MFCQ-1 Filter Cotton Cutting Machine  
PLM-MFRQ-601 Filter Bag Melting Bottom Slicer  
PLM-MFCB-1 Ultrasonic Double Motor Lace Machine  
PLM-MD7021 Trapezoidal Cotton Bag Making Machine  
PLM-NC1001 Liner Bag Making Machine  
PLM-NHJ1000 Trapezoidal Inner Bag Welding Machine

## 3. Filter Material



Medium Efficiency Bag Filter Material  
Filter Cotton, Large Dust Capacity

## 1. Pocket Filter - Fine Bag



### Description

The Fine bag filter pockets are produced from synthetic micro-fibres specifically designed for use in air filtration and provided with a scrim support backing bonded to the exit side of the media. The pockets are provided with inflation spacers to prevent over inflation when in use.

### Advantages

- Economic Operation and high filtration surface
- Robust construction with metal frame
- High dust holding capacity
- Ultrasonic welded pocket construction
- Available at out of standard size

Filter Media	Synthetic Non Woven Media				
Frame Material	Aluminum/Galvanized Steel				
Average Efficiency	40-60%	60-90%	80-95%	90-95%	95-97%
Classification (EN 779:2002)	M5	M6	F7	F8	F9
Initial Pressure Drop	40Pa	55Pa	80Pa	120Pa	180Pa
Final Pressure Drop	450Pa	450Pa	450Pa	450Pa	450Pa
Max. Temperature	80 °C	80 °C	80 °C	80 °C	80 °C
Max. Moisture	100%	100%	100%	100%	100%

## 2. Pocket Filter - Dura Bag



### Description

The Dura Bag Filters are made in Synthetic media. The media is bonded to a thin non-woven synthetic backing and sewn with multiple rows of expanded stitching, corrosion-resistant steel support frame.

### Advantages

- Economic Operation and high filtration surface
- High dust holding capacity
- Low pressure drop
- Available at out of standard size

Technical Data		
Filter Media	Synthetic Non Woven Media	
Frame Material	Galvanized Steel	
Average Efficiency	80-90%	90-95%
Classification(EN 779:2002)	G3	G4
Initial Pressure Drop	35 Pa	50Pa
Final Pressure Drop	250 Pa	250Pa
Max. Temperature	80 °C	80 °C
Max. Moisture	100%	100%

### 3. Trapezoidal Bag Filter Line



#### Description

Rigid podket filters serve as efficient pre-filters in air intake systems for gas turbines in any environmental condition. They efficiently remove airborne particulate matter but also mist and fog, acting as a filter and a coalescer in one. The use of rigid podket pre-filters protects fine and (H)EPA filters from dust, salt and water, thus significantly prolonging their life and protecting the gas turbine.

#### Advantages

- Combined coalescer and particle filter in one
- Suitable for extreme environments: high moisture and water mist content, high velocity, offshore, and marine
- Self supporting, leak-free welded pockets
- Injection moulded, impact-proof header
- Reliable service even at 100% relative humidity

Part	Frame Dimensions (in / mm)	Depth (in / mm)	Pockets	Fiter Frame	Filter Media	Gasket Location
PO30256	23.30x23.30/592x 592	24.01/610	8	Plastic	Synthetic	No gasket

Filter media color can change according to availability.

Filtration Class EN779 3400 m <sup>2</sup> h	Initial Pressure Loss (Pa/"wg)	Final Test Pressure Loss (Pa/ "wg)	Initial Arrestance	Average Arrestance	Max Operation Temperature	MediaArea (ft <sup>2</sup> /m <sup>2</sup> )
F7	60/0.24	450/1.80	94%	98%	80°C	60.27 /5.6

ISO ePM 10.65%

# Filter Machine

## 1. PLM-BF-0301 Automatic Outer Frame Forming Machine



Production rate	120-150group/h	Machine power	5.5kw
Gas consumption	40L/min	Power supply	Three-phase four-wire 380V
Size	2500*500*1500mm	Unit weight	840kg

## 2. PLM-MFNK-1 Automatic Inner Frame Molding Machine



Production rate	500-700 pcs/h	Machine power	3kw
Gas consumption	7.5L/min	Power supply	Three-phase four-wire 380V
Size	1300*500*1500mm	Unit weight	380kg

### 3. PLM-LNK-1318 L-shaped Inner Frame Machine



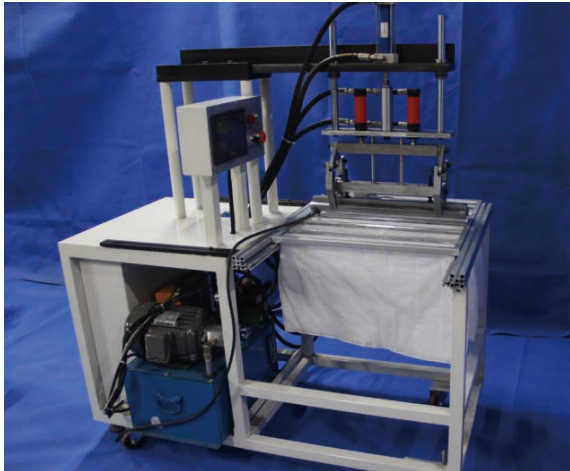
Production rate	500-700 PCS/h	Machine power	4.5kw
Gas consumption	12.5L/min	Power supply	Three-phase four-wire 380V
Size	2800*1500*1700mm	Unit weight	580kg
Applicable range: Width42-150mm, length270-700mm			

### 4. PLM-MFT-1 Automatic Clip Forming Machine



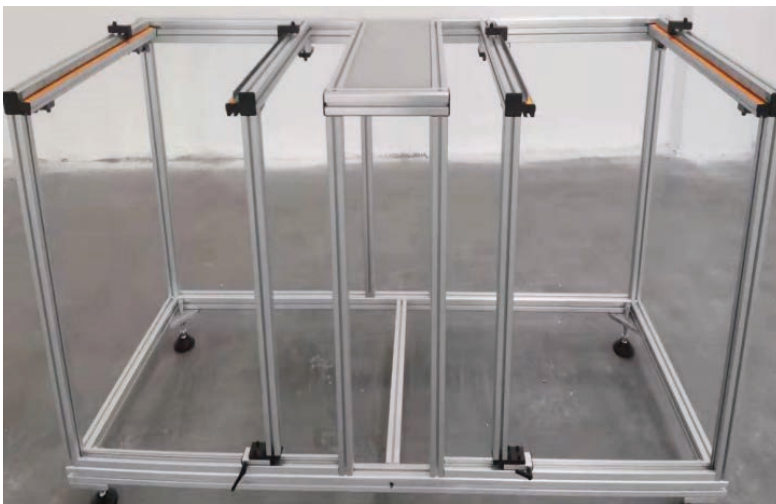
Production speed	800-1000 PCS/h	machine power	3kw
Gas consumption	7.5L/min	power supply	three-phase 380V four-wire
Overall dimensions	1100*500*1300mm	equipment weight	340kg

## 5. PLM-MFYJ-1 Oil Pressure Fixture Set



production rate	500-700 pcs/h	Machine power	3kw
gas consumption	7.5L/min	power supply	Three-phase four-wire 380V
size	1300*500*1500mm	unit weight	380kg

## 6. PLM-MFDZ-1 Bag Assembly Table



size	1700*750*850mm	equipment weight	105kg
Applicable product range: width 100-700mm, length 270-700mm			

## 7. PLM-MFNM-1 Inner Frame Riveting Machine



Applicable bag thickness	below 10mm	working efficiency	30-40times /min
total power	1-3	operators	3Kw
power supply	Three-phase 380V four-wire	total weigh	350kg

## 8. PLM-LCJ-2046 Automatic Aluminum Profile Stamping and Cutting Machine



Production speed	50-80 groups/h	machine power	3 kw
Gas consumption	10 L/min	power supply	Three-phase 380V four-wire
Overall dimensions	1100*500*1300 mm	equipment weight	240 kg
Suitable for aluminum thickness: below 0.9 mm			

## 9. PLM-JTNK-1 Auto Strip Clamping Machine



Suitable for bag thickness	less than 10mm	working efficiency	40-50s/piece
Total power	1	operator	3Kw
Power supply	three-phase 380V four wire	total weight	420kg

## 10. PLM-MFLG-1 Automatic Shelf Making Machine



Production speed	120-150group/hour	Overall power	12kw
Gas consumption	15L/min	Power	3-phase 380V four wire (16 square meters)
machine size	1100*1500*2100mm	weight	2400kg
Suitable for steel wire	3.2-4mm	width adjustable range	300-1000mm

## 11. PLM-MFWK-1 Outer Frame Punching Machine



Max cutting width	300mm	Maximum cutting depth	40mm
cutting speed	80-120 times/hour	Machine power	3KW
Air source	0.6MPa	Gas Consumption	10L/min
Power	3-phase 380V four wire	Size	6800*1400*1500mm
Weight	350kg		

## 12. PLM-MFQG-1 45° Double Head Cutting Machine



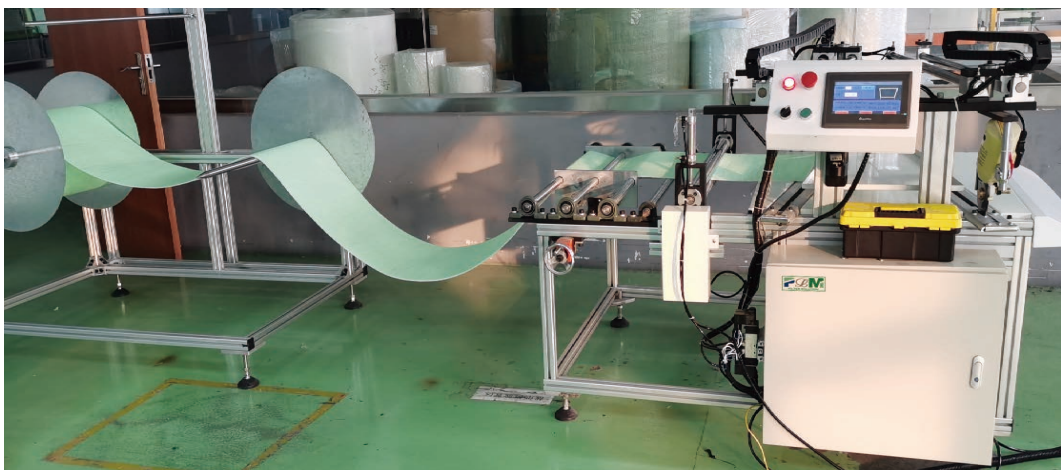
Max cutting width	300mm	Maximum cutting depth	40mm
cutting speed	80-120 times/hour	Machine power	3KW
Air source	0.6MPa	Gas Consumption	10L/min
Power	3-phase 380V four wire	Size	6800*1400*1500mm
Weight	350kg		

## 13. PLM-MFQG-1 90° Cutting Machine



Max cutting width	250mm	Maximum cutting depth	60mm
cutting speed	80-120 times/hour	Machine power	2KW
Air source	0.6MPa	Gas Consumption	10L/min
Power	3-phase 380V four wire	Size	6800*1400*1500mm
Weight	350kg		

## 14. PLM-MFCQ-1 Filter Cotton Cutting Machine



produce speed	150-200 times/hour	material thickness	4-10mm
Max produce width	800mm	Size	3500*1200*1500mm
Weight	350kg	Machine power	1.5KW

## 15. PLM-MFRQ-601 Filter Bag Melting Bottom Slicer



Max production width	800mm	Max production length	1000mm
Max coil diameter that can be installed	800mm	Machine size	2000*1650*1800mm
capacity	8-12pcs/min	power consumption	2KW
power supply	200V/380V 3P		

## 16. PLM-MFCB-1 Ultrasonic Double Motor Lace Machine



Stroke of welding head	60mm	Cutting mode	rolling cutting tool
Cutting accuracy	≤ 1mm	Power	1500-2500W Adjustable
Voltage	200V	Dynamic form	ultrasonic pulse
Weight	110Kg	Size	1200*600*1350mm

## 17. PLM-MD7021 Trapezoidal Cotton Bag Making Machine



Production Capacity	4–10 pieces/min (depending on product length and fabric thickness)	Cylinders	Taiwan AirTAC
Material Racks	6 racks, Ø3-inch; six servo guides to support bulkier and longer materials	Ultrasonic	6 high-power units
Bag Depth	350–720 mm	Power Consumption	8–9 kW
Main Machine Servo Motors	6 units	Machine Frame	3.0 mm thick aluminum profiles; sturdy and aesthetically pleasing
Program Control	Japan Mitsubishi PLC (FX5U Series) with Xinjie 10-inch touchscreen	Bag Size	Adjustable
Machine Dimensions (L × W × H)	11,000 × 1,500 × 1,800 mm		

## 18. PLM-NC1001 Liner Bag Making Machine



Produce Speed	120–200 pieces/min (depending on mold length)	Ultrasonic Welding	1 set, 18 kW/2200 W
Air Cylinder	SMC	Operators Required	1 person
Inner Liner Bag Sizes	Multiple sizes; adjustable by changing the mold	Machine Dimensions (L × W × H)	1,800 × 650 × 1,750 mm

# 19. PLM-NHJ1000 Trapezoidal Inner Bag Welding Machine



Capacity	2-4 pcs/min	Ultrasonic System	4 sets
Welding Mode	Single-step / continuous automatic welding	Operation	Easy to operate, 1 operator required
Welding Lines	1-10 selectable	Machine Size	1600 × 1300 × 1800 mm
Main Components	AirTAC cylinders, Delta servo motor (Taiwan)		

## 1. Medium Efficiency Bag Filter Material



### Product Performance

- The product uses all polypropylene components, which are non-toxic, odorless, and can be completely discarded
- Gradually increasing the density of the filter material increases the dust capacity and improves the product's service life
- Low initial resistance and high efficiency
- Unified identification of exterior colors for easy identification
- The material can be processed into formed filter bags, which can be cut and used by users immediately

Type	Basic W.g/m <sup>2</sup>	Thickness, mm	0.3µm@32L/min.dm <sup>2</sup>		0.3µm@85L/min.dm <sup>2</sup>		CRAA(en779) Bag Filter
			Pa Resistance	Effciency	Pa Resistance	Effciency	
LM-A-F5	114	3±1	7.0	50	23.0	33	white or yellow F5
LM-A-F6	124	3±1	11.0	65	32.0	43	green or orange F6
LM-A-F7	137	4±1	18.0	88	53.0	60	pink or purple F7
LM-A-F8	146	4±1	24.0	95	70.0	74	yellow F8
LM-A-F9	154	4±1	30.0	97	87.0	85	yellow F9
LM-B-F5	114	3±1	7.5	50	23.0	33	white or yellow F5
LM-B-F6	124	3±1	11.0	65	32.0	43	green or orange F6
LM-B-F7	140	4±1	18.0	88	53.0	60	pinke or purple F7
LM-B-F8	149	4±1	24.0	95	70.0	74	yellow F8
LM-B-F9	157	4±1	30.0	97	87.0	85	yellow F9

## 2. Filter Cotton, Large Dust Capacity



### Product Performance

- G4 grade material for primary air filtration.
- 310g/m<sup>2</sup> fabric with stable structure.
- Efficiency reaches 90%-95%.
- Low initial resistance: 30-50Pa.
- Dust holding capacity up to 350g/m<sup>2</sup>.
- Suitable for pocket filters and bag filters.

Type	Basic W.g/m <sup>2</sup>	Thickness. mm	Efficiency	Initial Resistance	Final Resistance	Dust Holding Capacity	Application
G4-310	310	G4	90%-95%	30-50 Pa	150-200 Pa	350 g/m <sup>2</sup>	Bag Filter / Pre-filter

# HEPA/ULPA Filters

## 1. HEPA Filters

- HEPA-Mini Pleat
- HEPA- V Cell
- HEPA- Deep Pleat



## 2. Filter Machine

- PL-AUTO55-600F Automatic Knife Pleating Machine
- PLHP-700/1300 Auto HEPA Filter Mini Paper Pleating Production Line
- PLWL-350-II Separated HEPA Filter Corrugating Machine/For Paper or Aluminum
- PLYG-650-A Separate HEPA Glass Fiber Pleating Machine
- PLCZ-300-800-II Separated Air Filter Punching Machine
- PLAB-3 Semi-automatic A and B Filter Element Injection Machine
- PLZK-600-800 Automatic Paper Box Dispenser
- PLM-HF-T1 Smoke Test Bench



## 3. Filter Material

- Fibre Glass
- Two-Component PU Adhesive
- Air Purification Origami Hot Melt Adhesive



## 1. HEPA-Mini Pleat



### Description

HEPA or high efficiency particulate arresting filters capture 99.97% of airborne contaminants as small as 0.3 microns in size. The Abatement Technologies H2418-99 HEPA filter removes bacteria, mold spores, soot, pollens, animal hair, animal dander, dust mites, smoke particles and other allergens and lung damaging particles

### Applications

- Food and Beverage
- Healthcare
- Industrial
- Microelectronics
- Pharmaceutical and Hospitals
- Pill Encapsulation
- Commercial Buildings

### Advantages

- Economic Operation and high filtration surface
- Robust construction with mdf frame
- Very high efficiency
- Low pressure drop
- 100% individual control
- Available at out of standard size

Filter Media	Micro Glass Fiber Paper				
Frame Material	Aluminum, CRCA powder coated and Stainless Steel Frame				
Efficiency (0.3 u)	≥95%		≥99.99%	≥99.999%	
Classification (EN1822)	H10	H11	H12	H13	H14
Recommended Final Pressure Drop	600 pa				
Max. Temperature	80 °C				

## 2. HEPA- V Cell

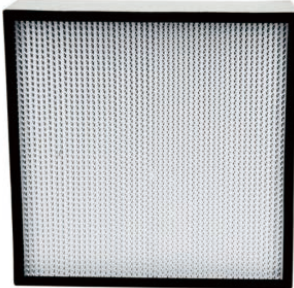


### Advantages

- Economic Operation and high filtration surface
- Robust construction with mdf frame
- High air flow rates, up to 4000<sup>TM</sup>3/
- Low pressure drop
- 100% individual control
- Available at out of standard size

Filter Media	Micro Glass Fiber Paper				
Frame Material	Galvanized Steel / CRCA Powder Coated / Plastic				
Efficiency (0.3 u)	≥95%		≥99.99%	≥99.999%	
Classification (EN1822)	H10	H11	H12	H13	H14
Recommended Final Pressure Drop	600 pa				
Max. Temperature	80 °C				

## 3. HEPA- Deep Pleat



### Advantages

- Economic Operation and high filtration surface
- Robust construction with mdf frame
- Very high efficiency
- Low pressure drop
- 100% individual control
- Available at out of standard size

Filter Media	Micro Glass Fiber Paper with Aluminum Separator				
Frame Material	Galvanized Steel / Aluminum / CRCA Powder coated				
Efficiency (0.3 u)	≥95%		≥99.99%	≥99.999%	
Classification (EN1822)	H10	H11	H12	H13	H14
Recommended Final Pressure Drop	600 pa				
Max. Temperature	80 °C				

## 1. PL-AUTO55-600F Automatic Knife Pleating Machine



### General description

The device is applicable to any material or multilevel material folded filter paper.

### Specification

- Max width: 600mm
- Adjustable pleating height: 4-100mm
- Pleating speed: 0-250pairs/min
- Power supply: 380v/50hz
- Motor power: 4kw
- Preheating power: 4KW
- Heating temp: normal-250 °C
- Working air pressure: 0.6Mpa
- M/C weight: 600kg
- M/C size: 2600×1500×1800mm(L×W×H)

## 2. PLM-S700H300 Close-Pleat Filter Production Line

---



### General description

This machine is professionally designed and used for Mini pleating and hot melt dispensing on the fiber glass or polypropylene, and is able to match different specifications of the filter elements, which is characterized with high productive efficient and simple operation.

### Specification

1. Max. processing width: 680mm
2. Adjustable pleating height: 10–300 mm
3. Production speed: 12 m/min (at pleating height 50 mm)
4. Number of glue lines: 2×25 lines
5. Glue melting machine: 50 L × 1 unit (domestic foam glue machine)
6. Number of slitting knives: 6 pieces
7. Power supply & power: 380 V / 15 kW
8. Gas consumption: 0.3 m<sup>3</sup>/min
9. Indentation blade width: 1 mm
10. Overall dimensions (L×W×H): 7500 × 2200 × 1800mm
11. M/C weight: 1.3 tons

### 3. PLWL-350-II Separated HEPA Filter Corrugating Machine/For Paper or Aluminum

---



#### General description

It is technically used in shaping the aluminum foil corrugation of separated high efficiency filter.

#### Specification

1. Max.width: 300mm
2. Max.Coil diameter: 1000mm
3. Customize the rollers according to the pleating height and pitch of waves.
4. Speed: 20 sheets/min (length: 500mm)
5. Motor power: 0.75kw
6. Power supply: 380V/50Hz
7. Working air pressure: 0.6MPa
8. M/C weight: 600kg
9. M/C size: 3400×510×1600mm (L×W×H)

#### Features

1. The roller speed can be controlled through variable-speed motor to accommodate different working conditions.
2. The length can be set freely, and cut off automatically.
3. It is equipped with the aluminum edge-doubled device while corrugating. Which prevent the fiber glass form breaking.
4. Use the gathering cylinder to collect products into the container.
- 5.High efficiency and simple operation.

## 4. PLYG-650-A Separate HEPA Glass Fiber Pleating Machine



### Applications

This machine is mainly used for plate glass fiber and PP filter material folding forming.

### Specification

1. Product compatibility: 10m/min
2. Pleat heights: Any adjustment
3. Paper width:  $\leq 650\text{mm}$
4. Motor power: 2kw
5. Power supply: 220v/50Hz
6. Working air pressure: 0.6Mpa
7. M/C weight: 500kg
8. M/C Size: 3560×1285×2460(L×W×H)

## 5. PLM-AB-1A HEPA automatic gluing machine



### Specification

1. Working range: 610 × 610 × 600 Hmm
2. Maximum speed: 300 mm/s
3. Number of operating stations: Double stations
4. Cleaning method: Automatic cleaning of methodicalness, interval type glue out to prevent curing
5. Pouring method: Three-axis moving pouring
6. Equipment components: Two components (1A+1B), A (plastic box): 50 L, B (plastic box): 30 L
7. Mixing ratio: Weight ratio 3:1
8. Working pressure: 0.4–0.7 MPa
9. Input voltage: AC 220 V 50 Hz / 60 Hz
10. Equipment power: 5 kW
11. Weight: About 800 kg
12. Machine size: 2000 × 1800 × 2000 mm

## 6. PLM-AB-1X Adhesive Dispensing Machine, Hand holding with Slide

---



### Specification

- Operation mode: Handheld dispensing
- Swing arc angle: 180 degrees, radius working zone: 1.8 meter
- Equipment components: Two components (A+B)
- Tank volume (A, B): 50 L, 30 L
- Theoretical glue injection volume: 5-15 g/sec
- Glue dispensing accuracy:  $\pm 1\%$
- Working air pressure: 0.4-0.7 MPa
- Input voltage: AC 220V 50 Hz/60 Hz
- Equipment power: 4 kW
- Overall machine weight: About 300 kg
- Overall machine size: Approximately 1100 × 900 × 1700 mm

## 7. PLM-AB-1 Adhesive Dispensing Machine, Flexible Hand Holding

---



### Specification

1. Operation mode: Handheld dispensing
2. Tank volume (A, B): 60 L, 35 L
3. Theoretical glue injection volume: 5-15 g/sec
4. Working air pressure: 0.4-0.7 MPa
5. Input voltage: AC 220V 50 Hz/60 Hz
6. Equipment power: 4 kW
7. Overall machine weight: About 300 kg
8. Overall machine size: Approximately 1400 × 1300 × 2000 mm

## 8. PLZK-600-800 Automatic Paper Box Dispenser



### General Description

This machine is mainly used for applying glue on the paper frame.

### Specification

1. Production capacity: 5 pieces / min
2. The maximum size of the paper frame: 600mm \* 800mm
3. Hot melt machine capacity: 10kg
4. Hot melt machine heating power: 6kw
5. Working pressure: 0.6Mpa
6. The power supply voltage: 220V/50hz

## 9. PLM-HF-T1 Smoke Test Bench

### General Description

Mainly suitable for efficient product detection of leakage points.

### Specification

1. Detection speed: 1-2min/piece
2. Applicable product size: 350-1400mm
3. Power supply: single-phase 220V 2kw
4. M/C weight: 250kg
5. M/C Size: 1500\*1500\*700mm (L×W×H)

### Applications

1. Fast and intuitive detection speed;
2. Centralized human-machine control, simple and convenient operation;
3. The equipment is made entirely of corrosion-resistant and rust resistant materials, with a beautiful appearance;
4. Personnel can directly determine the location of the leakage point for easy repair.



## 1. Fibre Glass

Code Number	Filtration Grade	Basic Weight	Thickness	Air Resistance Pa	Filtration Efficiency	MD Tension	CD Tension KN/M	Stiffness Mg	Water Resistance
LMW06F	F6	75±5g/m <sup>2</sup>	0.4±0.05 mm	≤20 Pa	≥30%	≥1.2	≥0.4	>1000	>2.5 K Pa
LMW07F	F7	75±5g/m <sup>2</sup>	0.5±0.05 mm	≤30 Pa	≥40%	≥1.2	≥0.4	>1000	>3.0 K Pa
LMW08F	F8	75±5g/m <sup>2</sup>	0.4±0.05 mm	≤45 Pa	≥55%	≥1.2	≥0.5	>1000	>3.0 K Pa
LMW9FX	F9	73±3g/m <sup>2</sup>	0.38±0.04 mm	≤65 Pa	≥80%	≥1.0	≥0.35	>1000	>3.5 K Pa
LMW09F	F9	75±5g/m <sup>2</sup>	0.40±0.05 mm	≤70 Pa	≥75%	≥1.2	≥0.4	>1000	>4.5 K Pa
LMW10HX	H10	73±3g/m <sup>2</sup>	0.38±0.04 mm	≤95 Pa	≥92%	≥1.0	≥0.3	>1000	>3.5 K Pa
LMW10H	H10	75±5g/m <sup>2</sup>	0.4±0.05 mm	≤120 Pa	≥92%	≥1.2	≥0.4	>1000	>5.0 K Pa
LMW11H	H11	75±5g/m <sup>2</sup>	0.4±0.05 mm	≤180 Pa	≥98%	≥1.2	≥0.4	>1000	>6.0 K Pa
LMW12H	H12	75±5g/m <sup>2</sup>	0.4±0.05 mm	≤260 Pa	≥99,92%	≥1.2	≥0.4	>1000	>6.0 K Pa
LMW13H1	H13	70±3g/m <sup>2</sup>	0.35±0.05 mm	≤300 Pa	≥99.95%	≥1.2	≥0.4	>800	>5.0 K Pa
LMW13H2	H13	75±5g/m <sup>2</sup>	0.40±0.05 mm	≤300 Pa	≥99.95%	≥1.2	≥0.4	>1000	>6.0 K Pa
LMW13HQ	H13	75±5g/m <sup>2</sup>	0.40±0.05 mm	≤300 Pa	≥99.95%	≥1.2	≥0.4	>1000	>10.0 K Pa
LMW13H2+	H13+	75±5g/m <sup>2</sup>	0.40±0.05 mm	≤310 Pa	≥99.99%	≥1.2	≥0.4	>1000	>4.0 K Pa
LMW14H	H14	75±5g/m <sup>2</sup>	0.40±0.05 mm	≤380 Pa	≥99.995%	≥1.2	≥0.4	>1000	>6.0 K Pa
LMW14HQ	H14	75±5g/m <sup>2</sup>	0.40±0.05 mm	≤380 Pa	≥99.995%	≥1.2	≥0.4	>1000	>10.0 K Pa
LMW14H+	H14+	75±5g/m <sup>2</sup>	0.40±0.05 mm	≤390 Pa	≥99.999%	≥1.2	≥0.4	>1000	>4.0 K Pa
LMW15U	U15	78±3g/m <sup>2</sup>	0.40±0.05 mm	≤400 Pa	≥99.9995%	≥1.2	≥0.4	>1200	>7.5 K Pa

## 2. Two-Component PU Adhesive

### Description

As two-component polyurethane (PU) adhesive, the main agent is a hydroxyl-containing prepolymer and the curing agent is an isocyanate-containing prepolymer.

### Application

Used for the bonding and sealing of filters, cylinder or panel filters and HEPA filters, and can be used for mold release.

	Main Agent NT 1042/6	Curing Agent NT HD5105
Color	Off-white*	Light yellow
Traits	Fluid	Fluid
Density (g/cm <sup>3</sup> )	1.63±0.05	1.15±0.05
Viscosity (mPa s)	10,000±4,000*	400±100
Viscometry	Brookfield DV-C	-
Mixing ratio (by weight)	2	1
Width adjustment range	Width adjustment range	Width adjustment range
	Mixture (main agent + curing agent)	
Color	Light off-white*	
Traits	Fluid	
Density (g/cm <sup>3</sup> )	1.39±0.05	
Operating time (min)	3-4 (adjustable)	
Surface drying time (min)	6-8 (adjustable)	
Fully cured	3-5 days later	
Tensile shear strength (MPa)	> 4.0	
Water absorption (%)	< 0.2	
Shrinkage (%)	< 0.2	
Hardness (Shore A)	90±5	
Applicable temperature range (° C)	-40 to 110	

	NT 1042/6	NT 1042/3	NT 1042/20	NT 1042/W3	NT 1042/W6
Color (main agent+)	Off-white	Off-white	Off-white	White	White
Color (mixture)	Light off-white	Light off-white	Light off-white	White	White
Viscosity (mPa s)	10,000±4,000	10,000±4,000	10,000±4,000	21,000±5,000	21,000±5,000
Operating time (min)	3-4	1-2	7-10	1-1.5	3-4
Surface drying time (min)	6-8	6-8	20-30	3-5	7-10
Fully cured	2-3 days	2-3 days	3-5 days	2-3 days	2-3 days

## 3. Air Purification Origami Hot Melt Adhesive

---

### Product Parameters

- Product number : LMBX280
- Application : filter origami
- Appearance : White particle
- System : Polyolefin Systems
- Product smell : very little smell
- Melted state : Colorless and transparent
- Curing speed : medium speed
- High temperature resistance :  $> 70^{\circ}\text{C}$
- Thin consistency/ $180^{\circ}\text{C}$ :  $3000\pm 500\text{cps}$
- Softening point/ $^{\circ}\text{C}$ :  $105\pm 5^{\circ}\text{C}$
- Glue performance : even, flat
- Recommended operating temperature: Glue box-hose-nozzle= $150^{\circ}\text{C}$ - $130^{\circ}\text{C}$ - $130^{\circ}\text{C}$
- Advantage : Fast curing speed, no glue, good viscosity, good toughness



# Dust Collection Filters

## 1. Pleated Dust Collector Filter Bags and Cartridges



## 2. Filter Machine



- PLM-GT-700 Rotary Filter Paper Pleating Machine
- PLM-700 Air Filter Automatic Paper Loading Machine
- PLM-NX-600 Inner Core Origami Machine
- PLGY-500 HDAF Mesh Hooking And Pressing Machine
- PLM-GH-660 Automatic Roll Welding and Forming Machine
- PLAB-2 AB A B Two Compounds Filter End Cap Gluing Machine
- PLDK-2 The Air Filter Cover Sealing Glue Injection Machine
- PLM-HFCD-1 Filter Cartridge Strips Automatic Ultrasonic Welding Machine
- PLM-HFCZ-1 Filter Cartridge Middle Seam Ultrasonic Welding Machine
- PLM-HFCJ-1 Filter Cartridge Tie-strip Spot Welding Machine

## 3. Filter Material



# Pleated Dust Collector Filter Bags and Cartridges



## Description

The pleated filter bags and cartridges are an innovation over the conventional filter bags to market requirements of higher efficiency and lower bag filter space requirement. These products are made up of spun bonded polyester. As the media is assembled in a pleated pattern, it provides 3 to 4 times higher filtration area compared to conventional bags.

## Applications

- Pharmaceuticals
- Steel&Power
- Powder Coating
- Shot Blasting
- Cement
- Chemicals
- Metals&Minerals
- Paints&Pigments

## Advantages

- High filtration area up to 20 m<sup>2</sup>
- Universal Fixing Arrangements
- Open Pleat Spacing
- Low Consumption of Compressed Air(For Cleaning)
- High Filtration Efficiency
- Aluminum Coating for Antistatic Application

Technical Data	
Filter Media	Spun Bonded Polyester Media
Frame Material	CRCA With plating
Average Efficiency	85-90%
Initial Pressure Drop	50 Pa
Final Pressure Drop	450 Pa
Max. Temperature	125°C

# Filter Machine

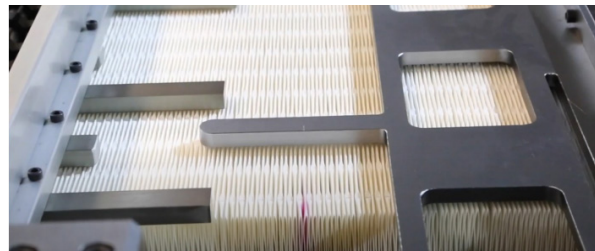
## 1. PLM-GT-700 Rotary Filter Paper Pleating Machine

### Filter Paper Pleating Machine



#### Specification

- Speed: 75 m/min
- Rotary Width: 100–660 mm
- Roller Specifications: customized according to user requirements
- Folding Height Range: 22–72 mm
- Temperature Control: 0–190 °C
- Total Power: 15 kW
- Working Air Pressure: 0.6 MPa
- Power Supply: 380 V / 50 Hz
- M/C Weight: 1200 kg
- M/C Size (L × W × H): 4700 × 1300 × 1200 mm



## 2. PLM-700 Air Filter Automatic Paper Loading Machine

### Filter Paper And Inner & Outer Mesh Assembly



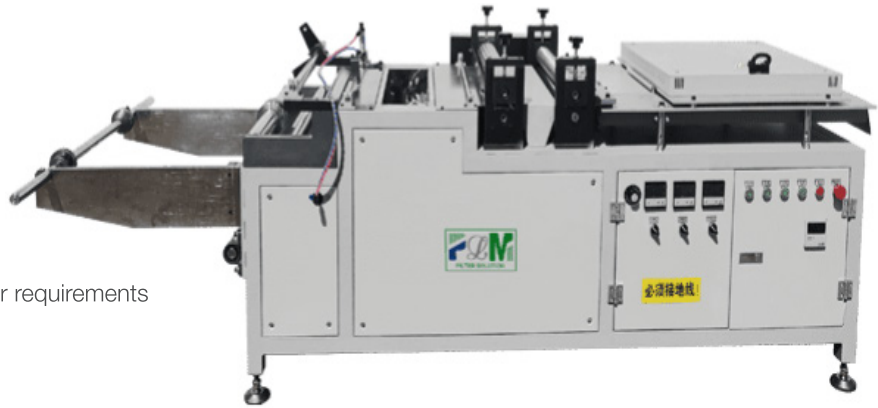
#### Specification

- Working Diameter: 230–350 mm
- Production Efficiency: 2 pcs/min
- Height: 700 mm
- Working Air Pressure: 0.6 MPa
- Power Supply: 380 V / 50 Hz
- Equipment Weight: 600 kg
- Paper Feeding into Circle Shape Size (L × W × H): 2100 × 1480 × 1500 mm
- Paper Ejection Mold (L × W × H): 1610 × 640 × 1800 mm

### 3. PLM-NX-600 Inner Core Origami Machine

#### Specification

- Design Speed:15–30 m/min
- Origami Width:100–590 mm
- Folding Height:7–17 mm
- Roller Specifications:
- can be customized according to user requirements
- Temperature Control:0–190 °C
- Total Power:8 kW
- Working Air Pressure:0.6 MPa
- Power Supply:380 V / 50 Hz
- M/C Weight:450 kg
- M/C Size (L × W × H):2800 × 1000 × 1100 mm



### 4. PLGY-500 HDAF Mesh Hooking And Pressing Machine Inner & Outer Mesh Hooking & Pressing

#### Specification

- Production Capacity:4 pcs/min
- Max. Mesh Diameter:500 mm
- Max. Mesh Length:420 mm
- Motor Power:7.5 kW
- Power Supply:380/50 V/Hz
- M/C Weight:400 kg
- M/C Size (L × W × H):1200 × 1000 × 1900 mm

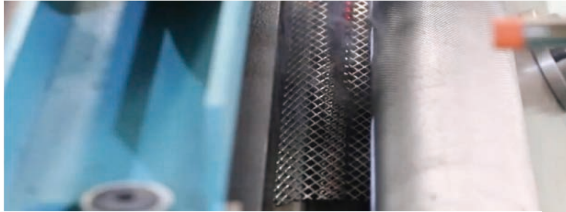
#### Application

This machine is suitable for the air filter outer edge and flat or round hook.



## 5. PLM-GH-660 Automatic Roll Welding and Forming Machine

### Inner & Outer Mesh Seam Welding



#### Specification

- Production Speed:2-3 pcs/min
- Max. Working Width:660 mm
- Diameter Range:120-400 mm
- Working Air Pressure:0.6 MPa
- Total Power:35 kW
- Power Supply:380 V / 50 Hz
- M/C Weight:1025 kg
- M/C Size (L x W x H):1800 x 1700 x 1550 mm

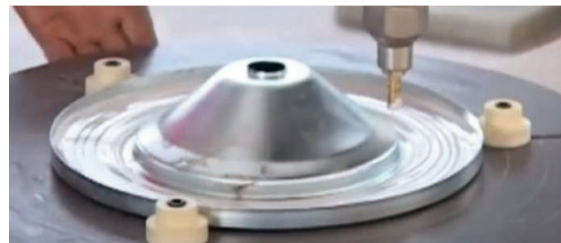


## 6. PLAB-2 A B Two Compounds Filter End Cap Gluing Machine

### Metal Caps And Gluing

#### Specification

- Product Name:PLAB-2
- Available Cap Diameter:≤450 mm
- Tank Capacity(A/B) :60, 35 L
- Gluing Range/Single:5-260 g
- Gluing Speed:3-15 S/time
- Production Capacity:20 pcs/min
- Mixing Rate:1:6 (meet customers specifications.)
- Mixing Head Speed:3300 circle/min
- Turning Speed:≤280 circle/min
- Machine Power:4 kW
- Working Air Pressure:0.6 MPa
- Power Supply:380/50 V/Hz
- M/C Weight:550 kg
- M/C Size (L x W x H):1800 x 1200 x 1700 mm



## 7. PLM-JDZJ-2 Rubber Pad Bonding Machine

### Specification

- Production Capacity: 2 pcs/min
- Available Cap Diameter: 130–490 mm
- Power Supply: 380 V / 50 Hz
- M/C Weight: 300 kg
- Power: 1.5 kW



## 8. PLM-HFCD-1 Filter Cartridge Strips Automatic Ultrasonic Welding Machine

### Application

Automatic welding pleated filter cartridge strips.

### Specification

- Welding filter width: 550mm
- Welding filter height: 16-30mm/30-50mm
- Mold pleat distance: 9mm (Customized)
- Frequency: 15K 2600W\*2 20K 2000W\*1
- Output power: 4.5KW
- Welding time: 0.6-1s (Adjustable)
- Air pressure: 0.6-0.8MPa
- Size (length\*width\*height): 6500\*1700\*1800mm

### Components

- Feeding part 3.2m conveyor belt
- Main ultrasonic welding strips part
- Cutting strips part
- Discharging part 2.5m conveyor belt
- PLC control system



## 9. PLM-HFCZ-1 Filter Cartridge Middle Seam Ultrasonic Welding Machine

### Application

Ultrasonic welding pleated filter cartridge middle fabric.

### Feature

Radial ultrasonic, up and down molds working synchronously.

### Specification

- Welding filter height: 16-30mm/30-50mm
- Frequency: 20K 2000W
- Output power: 2600W
- Welding speed: 1-10m/min
- Air pressure: 0.4-0.6MPa
- Size(length\*width\*height): 3000\*1000\*1500mm



## 10. PLM-HFCJ-1 Filter Cartridge Tie-strip Spot Welding Machine

### Application

Welding connect strips.

### Specification

- Frequency: 20K 2000W
- Output power: 2600W
- Welding speed: 0.7s/pcs
- Air pressure: 0.4-0.6MPa
- Size(length\*width\*height): 3000\*1000\*1500mm



# Filter Material



Filter Paper



Filter mesh



Hot Melt Glue



Polyester Fiber



Rubber Sealing Ring



Metal End Caps

## PRODUCTION SPECIFICATON---Polyester fibre

Type	Basis weight (oz/sq.yd)	Thicknes (mils)	Tensile Strength		Elongation		HeatShrinkage		Air Permeability Pattern (cfm)	Pattern
			(1B/IN)	Elongation	MD (%)	CD (%)	MD (%)	CD (%)		
P25 Flame retardant	0.72	8.27	≥5.7	≥7.4	≥12	≥16	≤2.0	≤0.6	/	point
P30	0.87	7.09	≥6.8	≥6.8	≥12	≥13	≤2.0	≤0.5	/	point
P40	1.16	9.45	≥9.1	≥9.7	≥15	≥17	≤1.5	≤0.4	276.6	point
P50	1.45	10.24	≥12.5	≥13.7	≥15	≥18	≤1.2	≤0.4	256.9	point
P60	1.74	10.63	≥15.4	≥17.1	≥17	≥19	≤1.2	≤0.4	237.1	point
P70	2.03	11.42	≥17.1	≥20.5	≥17	≥19	≤1.2	≤0.4	177.8	point
P80	2.32	12.6	≥19.4	≥21.7	≥17	≥19	≤1.2	≤0.4	158.1	point
P90	2.6	14.17	≥22.8	≥25.1	≥18	≥20	≤1.0	≤0.4	138.3	point
P100	2.89	14.57	≥23.9	≥26.2	≥18	≥20	≤1.0	≤0.4	138.3	point
P120	3.47	16.14	≥28.5	≥31.9	≥19	≥20	≤0.8	≤0.3	98.8	point
P150	4.34	18.11	≥41.0	≥45.6	≥20	≥21	≤0.6	≤0.3	51.4	point
P180	5.21	19.29	≥57.0	≥62.7	≥28	≥30	≤0.6	≤0.2	29.6	point
P200	5.79	20.87	≥68.4	≥71.8	≥28	≥28	≤0.4	≤0.2	25.7	point
P220	6.37	22.05	≥72.9	≥77.5	≥28	≥28	≤0.4	≤0.2	23.7	point
P240	6.95	22.05	≥79.8	≥84.4	≥28	≥28	≤0.4	≤0.2	19.8	point
P280	8.1	24.8	≥80.9	≥88.9	≥25	≥28	≤0.4	≤0.2	11.9	point
P200	5.79	19.67	≥59.3	≥41.0	≥19	≥12	≤0.4	≤0.2	17.8	diamond
P260	7.52	23.23	≥77.5	≥70.7	≥18	≥20	≤0.4	≤0.2	12.3	diamond
D130 film coated	3.76	15.75	≥38.7	≥23.9	≥12	≥6	≤0.6	≤0.2	/	diamond
P135 Anti-Bacterial	3.91	16.93	≥21.7	≥25.1	≥10	≥12	/	/	88.9	point
D260 Anti-Static	7.52	25.59	≥100.3	≥114	≥54	≥50	/	/	49.4	diamond
P110 Printed	3.18	16.54	≥29.6	≥32.5	≥14	≥17	1	≤0.6	98.8	point
P220 Dark Green	6.37	22.05	≥66.1	≥70.7	≥26	≥28	≤0.4	≤0.2	25.7	point



**Design,  
Supply & Support**

One Stop Solution to your Filters Production

# PLM FILTER SOLUTION GROUP

**Hebei Leiman Filter Material Co., Ltd**

**Hebei Luman Filter Parts Co., Ltd**

**Hebei Deman Technology Co., Ltd.**

ADD: East of Anping, Hengshui City, Hebei Province China

TEL: +86-15131850885 (WhatsApp/WeChat)

E-MAIL: [info@pmfiltersolution.com](mailto:info@pmfiltersolution.com)

WEB: [www.pmfiltersolution.com](http://www.pmfiltersolution.com)

