



**Design,
Supply & Support**

One Stop Solution to your Filters Production

PLM FILTER SOLUTION

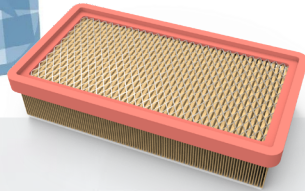
Air Filtration Industries

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.

Founded in 1990, PLM was specialized in filter element manufacturing. After years of development, PLM has become a filter production solution designer. So far, our solutions cover car and heavy-duty air filters, cabin filters, oil & fuel filters, primary/middle/high efficiency filters. We supply a complete line of filters production, from filter materials, production machines, testing machine to production line configuration and production process optimization to eliminate our customers free from worries. Today we have more than 200 kinds of machines and models fulfilling industry's diverse requirements. We have gained the ISO, CE and CO certifications.





SOMETHING WE CAN DO

→ Process & Equipment Solutions

- Production Guidance: Step-by-step manufacturing support.
- Machine Options: Multiple configurations to fit your needs.
- Innovative R&D: Redefining filter production with upgraded equipment.
- Diverse Product Lines: 12 production lines, 94 categories, 247 products.
- Factory Setup: Helped dozens of clients build their plants.
- Layout Planning: Let us design your factory floor.
- 30 Years of Expertise: Smarter, safer machine designs for smoother operations.



Build complete Eco Fuel & Oil Filter product line for customers and help them grow



Provide customized equipment solutions for well-known brand factories.

SOMETHING WE CAN DO



Material Solutions

- Quality First: PLM ensures top-tier material selection.
- Procurement Advisor: We match you with the right materials.
- Flexible Grades: Premium, mid-range, and standard raw materials.
- Cost-Effective Choices: Save without sacrificing quality.



Filter glue



Cabin filter media



Filter paper



Filter mesh



Hot melt glue



Non-woven

SOMETHING WE CAN DO

→ Technical Support

- Cost & Profit Analysis: Crunch the numbers upfront.
- Easy Setup: Clear instructional videos for stress-free installation.
- Reliable Performance: Every machine delivers stable, lasting quality.
- Market-Specific Budgets: Customized for your region.
- Production Planning: Your virtual "Production Manager".
- Operations Boost: Staff training, maintenance, process optimization, and scalable layouts.
- Custom Machines & Molds: Built to your specs.
- Export Pros: Certified for global shipping and mixed-container loads.





SOMETHING WE CAN DO

→ **Customer Service**

- Dedicated Support Team: Always on standby.
- End-to-End Solutions: We help you make filters that sell.
- Quick Responses: No waiting around.
- 1-on-1 Service: 100% patience, 0% hassle.
- 30 Years in Filters: Trusted know-how.
- Global After-Sales: Smooth support worldwide.
- On-Time Delivery: Count on us to meet deadlines.

In addition to specialized electrical and programming engineers, we also have three composite senior engineers with comprehensive experience and capabilities in filter production project design and implementation.



Eng. Zhang

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



Eng. Wang

R&D Project manager 15 years experience Experts in filter machines Installation and production



Eng. Zhang

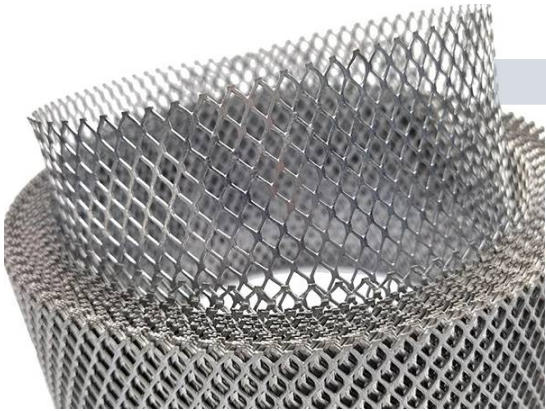
R&D technical manager 18 years experience Experts in punching and electrical

Primary Medium Hepa Filter Line Process Guidance



Machine solutions – Primary Medium HEPA Filter Line

1. Pre Filter Material



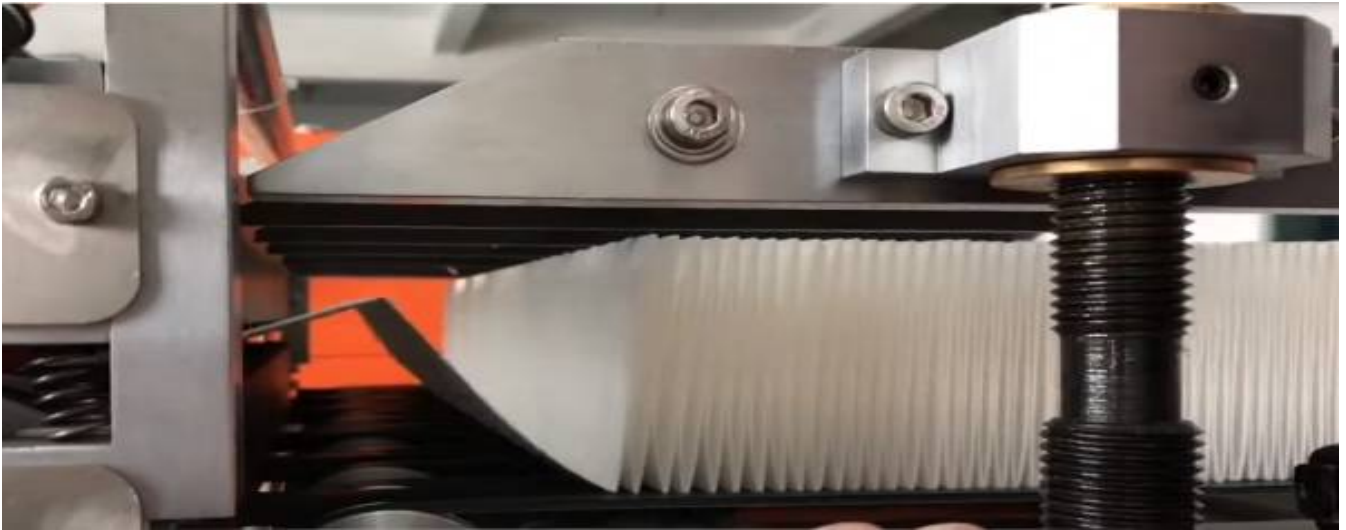
HEPA Filter Support Mesh

2. Pre Filter Media Compositing



PLFH-700
Filter Materials Compositing Machine

3. Filter Media Pleating



PLZD-700

Full-Auto Compositd
Materials Pleating Machine



PLHP-1300/700

Auto HEPA Filter Mini Paper Pleating
Production Line

4. Pre Filter Assembly



PLWG-700-II

Auto HEPA Filter Mini Paper
Pleating Production Line



PLPP-800-II

Full-Auto PP Intermittent Gluing
Production Line



PL-AUTO55-1050F

Automatic Knife Folding
Machine



PLWG-1300N/700N

Full-Auto HEPA Filter CNC Mini Paper
Pleating Line



PLWG-700

Auto HEPA Filter Mini Paper Pleating
Production Line





PLPP-700-II
Full-Auto PP Intermittent Gluing Production Line



PLYG-650-A
Separate HEPA Glass
Fiber Pleating Machine

5. Separated Paper Corrugating



PLZG-320

Separated Paper
Corrugating Machine



PLWL-350-II

Separated HEPA Filter Corrugating
Machine For Paper or Aluminum

6. Separated Paper Marking & Forming



PLCZ-300-800-II
Separated Air Filter
Marking Machine

7. Bag Filter Material Cutting



PLPB-850
Auto Cutting Machine For
Fabric Bag Filter

8. HEPA Filter Gluing Process



PLM-AB-1

Adhesive Dispensing
Machine, Flexible
Hand Holding



PLM-AB-1X

Adhesive Dispensing
Machine, Hand
holding with Slide



PLM-AB-1A

HEPA automatic
gluing machine



PLZK-600

Adhesive
Dispensing
Machine



PLZK-600-800

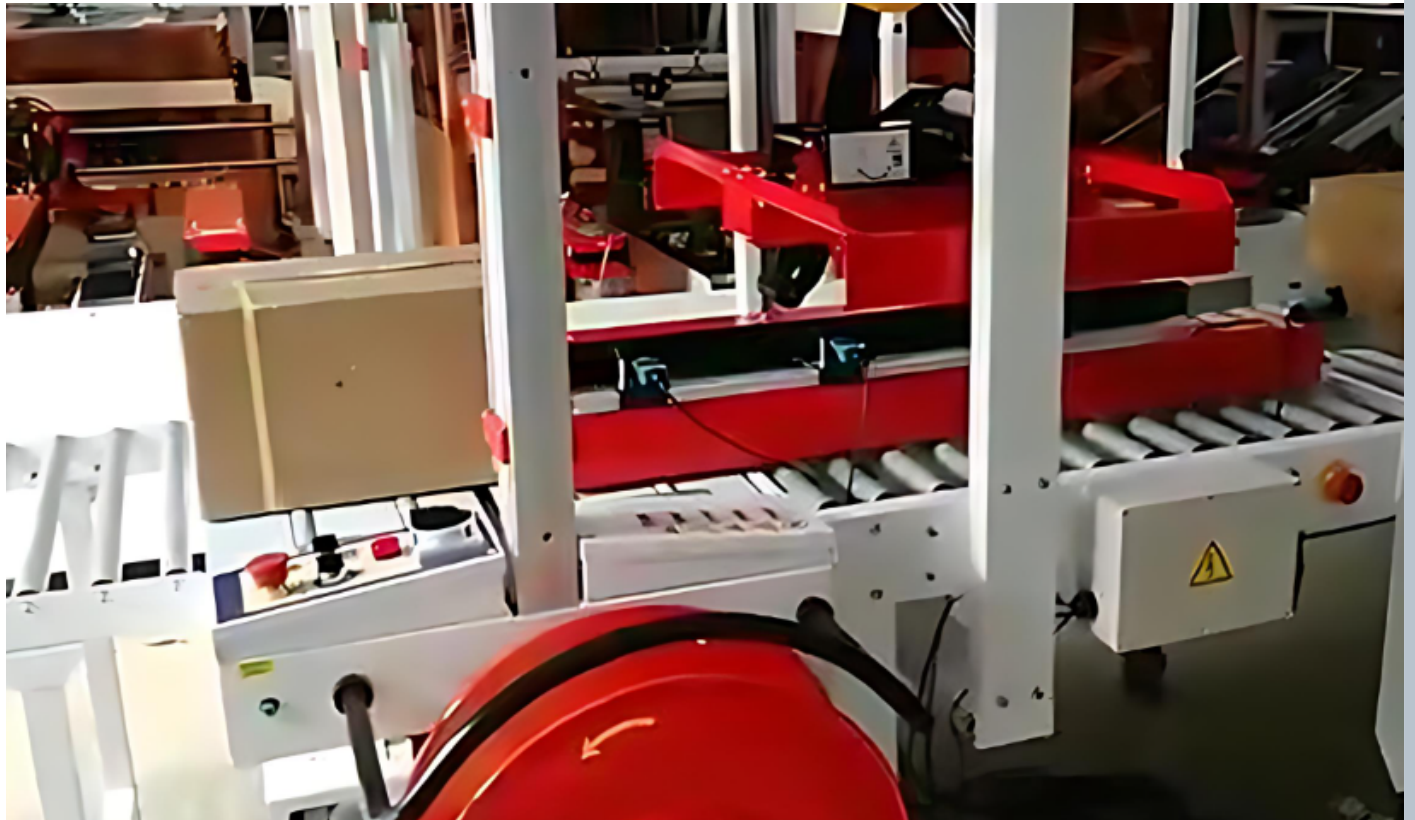
Initial Effect Paper Frame Glue Machine



PLM-ZKZZ-1

Semi-automatic Paper Frame Filter Assembling Line

9. Packing



PLM-DB5060

Automatic Sealing and
Strapping Machine

10. Filter Material

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

01 Fibre Glass

Code Number	Filtration Grade	Basic Weight	Thickness	Air Resistance	Filtration Efficiency	MD Tension	CD Tension	Stiffness	Water Resistance
–	–	g/m ²	mm	Pa	–	kN/m	kN/m	mg	kPa
LMW06F	F6	75±5	0.40±0.05	≤ 20	≥ 30%	≥ 1.2	≥ 0.4	> 1000	> 2.5
LMW07F	F7	75±5	0.50±0.05	≤ 30	≥ 40%	≥ 1.2	≥ 0.4	> 1000	> 3.0
LMW08F	F8	75±5	0.40±0.05	≤ 45	≥ 55%	≥ 1.2	≥ 0.5	> 1000	> 3.0
LMW9FX	F9	73±3	0.38±0.04	≤ 65	≥ 80%	≥ 1.0	≥ 0.35	> 1000	> 3.5
LMW09F	F9	75±5	0.40±0.05	≤ 70	≥ 75%	≥ 1.2	≥ 0.4	> 1000	> 4.5
LMW10HX	H10	73±3	0.38±0.04	≤ 95	≥ 92%	≥ 1.0	≥ 0.3	> 1000	> 3.5
LMW10H	H10	75±5	0.40±0.05	≤ 120	≥ 92%	≥ 1.2	≥ 0.4	> 1000	> 5.0
LMW11H	H11	75±5	0.40±0.05	≤ 180	≥ 98%	≥ 1.2	≥ 0.4	> 1000	> 6.0
LMW12H	H12	75±5	0.40±0.05	≤ 260	≥ 99.92%	≥ 1.2	≥ 0.4	> 1000	> 6.0
LMW13H1	H13	70±3	0.35±0.05	≤ 300	≥ 99.95%	≥ 1.2	≥ 0.4	> 800	> 5.0
LMW13H2	H13	75±5	0.40±0.05	≤ 300	≥ 99.95%	≥ 1.2	≥ 0.4	> 1000	> 6.0
LMW13HQ	H13	75±5	0.40±0.05	≤ 300	≥ 99.95%	≥ 1.2	≥ 0.4	> 1000	> 10.0
LMW13H2+	H13+	75±5	0.40±0.05	≤ 310	≥ 99.99%	≥ 1.2	≥ 0.4	> 1000	> 4.0
LMW14H	H14	75±5	0.40±0.05	≤ 380	≥ 99.995%	≥ 1.2	≥ 0.4	> 1000	> 6.0
LMW14HQ	H14	75±5	0.40±0.05	≤ 380	≥ 99.995%	≥ 1.2	≥ 0.4	> 1000	> 10.0
LMW14H+	H14+	75±5	0.40±0.05	≤ 390	≥ 99.999%	≥ 1.2	≥ 0.4	> 1000	> 4.0
LMW15U	U15	78±3	0.40±0.05	≤ 400	≥ 99.9995%	≥ 1.2	≥ 0.4	> 1200	> 7.5

02 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.

Product parameters

Item	Main Agent NT 1042/6	Curing Agent NT HD5105
Color	Off-white*	Light yellow
Traits	Fluid	Fluid
Density (g/cm ³)	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	
Mixture (main agent + curing agent)		
Color	Light off-white*	
Traits	Fluid	
Density (g/cm ³)	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	

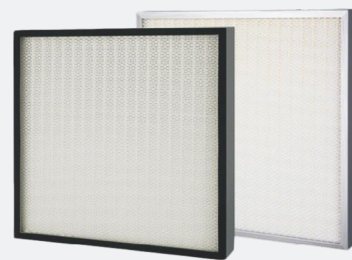
Product Property Comparison

Item	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

03 Air Purification Origami Hot Melt Adhesive

Product Parameters

Item	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 °C
Thin consistency/180 °C	3000±500 cps
Softening point/°C	105±5 °C
Glue performance	Even, flat
Recommended operating temperature	Glue box-hose-nozzle=150 °C-130 °C-130 °C
Advantage	Fast curing speed, no glue, good viscosity, good toughness



Technical Support



Production Cost & Profit Calculation

According to your needs and requirements, we will calculate the budget you need and supply an optimal solution to help you get the best equipment within your limited budget.



Extendable Upgradable Production Line & Reasonable Layout

We will design extendable, upgradable production line and calculate the most reasonable footprint of the production line according to your requirements.



Worker Training

We have create rich training documents and videos for your fast learning and training. You can come to our factory for actual operation instruction.



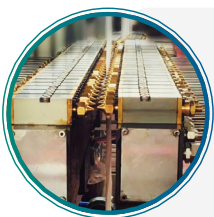
Machine Installation & Maintenance Guidance

Before delivery, we have debug and test machine to achieve the best performance. Besides, we will deliver the installation guidance and maintenance guidance along with machines.



Technological Improvements & Production Flow Optimization

We will evaluate your machines and production flow based on the production state of your production lines and put forward our suggestions for improvements.



Machine & Mold Customization

We will customize machine to match your local market needs. Besides, various molds customization service are accepted for your efficient and easy production.



Professional team after-sales support

We have a commitment of "4, 8, 36" which means respond to your requirements within 4 hours, give the pre-solution within 8 hours and complete within 36 hours.



Our Global Partners





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YOUR FILTERS PRODUCTION

