

Laser Filter Paper Pleating & Cutting Machine600

Internal Product ID: ENFT-AFM-034 • ENFT-PUAF-005 • ENFT-RPM-006



Unit of Measurement	Set
Brand	ENFT
Model Number	ENFT-LPC-600
Place of Origin	China
Certification	Manufactured Under Strict Quality Control
Min. Order Qty	1
Supply Ability	100 Sets/Month
Packaging	Standard Export Packaging
Delivery Time	45 Days After Receipt of Advance Payment
Payment Terms	30% Deposit 70% Before Shipment

Overview

Fully automatic laser filter paper pleating and cutting machine designed for producing oval and irregular filter media with high precision, servo control, laser protection system, and intelligent touch-screen operation.

Description

Item	Specification
Machine Name	Laser Filter Paper Pleating & Cutting Machine
Machine Type	Fully Automatic Servo-Controlled Laser Pleating & Cutting System
Application	Automatic pleating and laser cutting of automotive air filter media for passenger, commercial, heavy-duty, and industrial filters
Production Capability	Suitable for manufacturing oval, round, and various irregular filter paper elements
Feeding System	Automatic lifting feeding rack manufactured from chrome-plated carbon steel, suitable for paper rolls up to Ø1200 mm
Humidification System	Stainless steel automatic humidification unit with intelligent temperature control
Pleating Roller	Chrome-plated roller, effective working width 600 mm
Pleat Height Range	Adjustable from 20–60 mm
Laser Cutting System	Dual imported laser generators for high-speed precision cutting
Laser Head Adjustment	Fine adjustment during operation or standby
Conveyor System	Servo-driven aluminum alloy conveyor with anti-slip PVC belt, 400 × 3000 mm
Servo Drive System	Four high-performance servo motors
Speed Control	Automatic synchronization with manual adjustment (±2% resolution)
Collection Roller	Hard anodized aerospace aluminum alloy
Cooling System	CW-5000 / CW-5200 industrial water chiller
Smoke Extraction	Bottom exhaust smoke extraction system
Control System	XINJE PLC with 10-inch industrial touch screen
Operating Interface	Chinese / English bilingual HMI
Monitoring System	Real-time voltage, current and operating status display
Machine Structure	Heavy-duty aluminum alloy frame with acrylic safety enclosure
Installed Power	Approx. 7.5 kW (2.0 + 5.5 kW)
Average Power Consumption	Approx. 1.5 kW
Machine Dimensions	Approx. 7000 × 2000 × 1800 mm

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Machine Weight	Approx. 1000 kg
Production Speed	3-15 pleats/sec, 30-108 m/min, up to 3,600 pcs / 8 hours
Protection System	Laser water cooling, low air pressure, paper break detection, paper end protection
Electrical Components	CHINT
Pneumatic Components	BAIDI
Servo Brand	XINJE
HMI Brand	XINJE
Advantages	High precision, intelligent control, stable production, low power consumption, continuous automatic operation