

Automatic Mask Making Machine



TESTEX INSTRUMENT LTD
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APL110 Basic Introduction

APL110, an upgraded product of APL80, is designed to meet higher production efficiency while maintaining stability. It is the eleventh generation product of the TESTEX mask machine, Approved to be promoted in the market after three months of complete testing. **High speed and proven stability** is its biggest feature.

APL110 Specifications

Model	APL110
Capacity	110 pcs / min (Stable)
Earloops inward device	Optional
Power	220 V, 50 Hz, 4 Kw
Machine size & Net wt.	3900 x 2020 x 1630 mm, 662 Kg



Mask Bodies Making Machine

Automatic system to form 3 ply flat mask bodies, combine raw fabrics, three layers of pp non-woven, then form the creases, inserting nose clips and being weld together by ultrasonic welding device, finally cut into mask body pieces for next earloops welding procedure.



Machine Appearance might change accordingly, please confirm with our sales in advance.

Specifications

- Capacity: 120+ pcs/min
- Power: 220 V 50 Hz 1 Kw
- Machine size: 2810 * 640 * 1410 mm (L x W x H)
- Machine weight: 351 Kg



Packaging info.

- Package size: 2950 * 760 * 1560 mm (L x W X H)
- Package weight: 469 Kg

Automatic Ultrasonic Earloop Welding Machine



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This earloop welding unit is what differs TESTEX mask machines from others most, the fully servo motors systems and durable rubber delivery belt enable the earloops welding process fast and accurate.

Specifications

- Capacity: 110+ pcs/min
- Power: 220 V 50 Hz 1.5 Kw
- Drive type: servo motors
- Air source: 0.4 ~ 0.7 MPa
- Machine size: 1870 * 980 * 1420 mm (L x W x H)
- Machine weight: 326 Kg



Packaging info.

Package size: 1980 * 1150 * 1490 mm (L x W X H)



Package weight: 445 Kg

Machine Appearance might change accordingly, please confirm with our sales in advance.

TESTEX APL110 VS Mask Machine In Market



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	APL110 Mask Making Machine We offer	Automatic line in the market
Image		
Feature	Earloop inward forming at high-speed 110pcs/min, automatic packing with neatly mask piles, more saving-labor. As a produce mask manufacturer, time is money, automatic packing a whole pack of masks selling, fast produce, and immediate selling.	Most other mask-making machines in the market, in pursuit of high speed, usually using the earloop outward forming, it needs more labor to pack the masks for a bag for sale, so that would waste money, waste time, less efficiency, even lose the market.
Quality	Brand accessories: SMC cylinder, scissors, servo motor, belt and etc.	Most are no warranty for key components for low-cost purpose, which result in endless after-sales problems.
Technical	With the core technology, mechanical body technology, sensing technology, drive technology.	Without technology, only assembly simple.
Area	Very compact, needs less space, less shipping costs (-50%)	Large footprint, not easy to operate, high shipping cost (+50%).
Main controller interface	Customized UI for mask production, easy & intuitive to use Language available: English, Korean, Chinese, and your language.	Interfaces provided by suppliers, no optimization for mask production, poor translation.
Service	Good after-sales service, fast assistance with installation, mask production line can start in half an hour, high efficient capacity produce masks, fast returns.	Debug the machines on your place for 12 to 17 days, machines can not persist running stable, production interruption means low capacity.
Other	We provides a accessories list, you can replaced accessories at any time.	Without accessories list, cannot change the accessories.

APL110 Features

#1 High quality

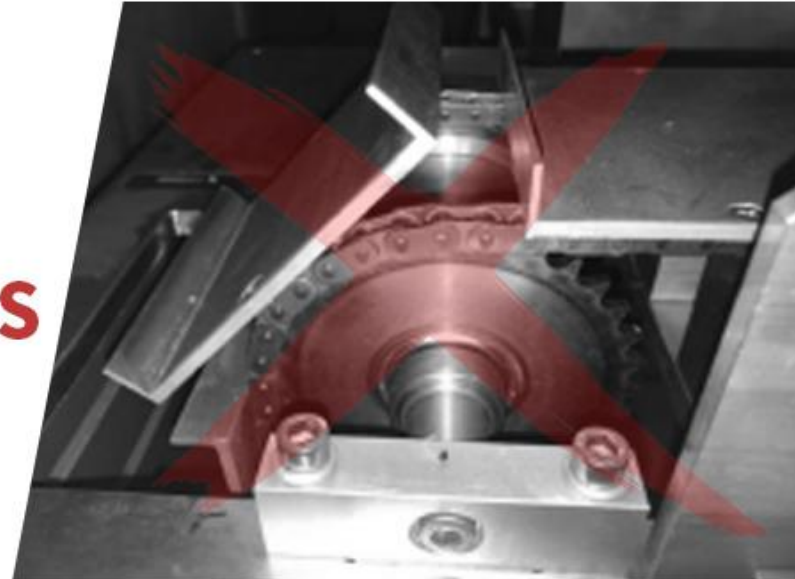
TESTEX APL110



High-quality conveyor belt, durable, maintenance-free

VS

Low-quality Mask Machine



Chain conveyor belt: easy to break and unstable

APL110 Features

#2 Earloop inward forming, stable running, high production



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TESTEX APL110



VS

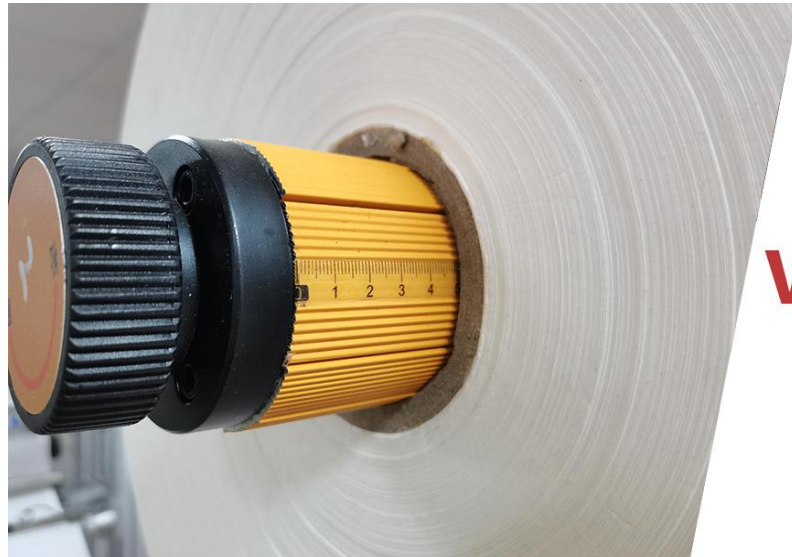
Low-quality mask machine



Earloop inward forming
High-speed 110pcs/min
More saving-labor
Fast produce, immediate selling

Most other mask-making machines
Using the earloop outward forming
Needs more labor, less efficiency.

Magnetic powder air shaft feeding rack



Scale display, air shaft adjustment, easy to fix the material, reduce the difficulty of changing materials, fine adjustment of the electric brake, more stable feeding tension control

Ordinary feeding rack



Ordinary feeding rack, manual mechanical adjustment, difficult to control the tension, difficult to debug, increase the time and difficulty of changing the material

APL110 Features

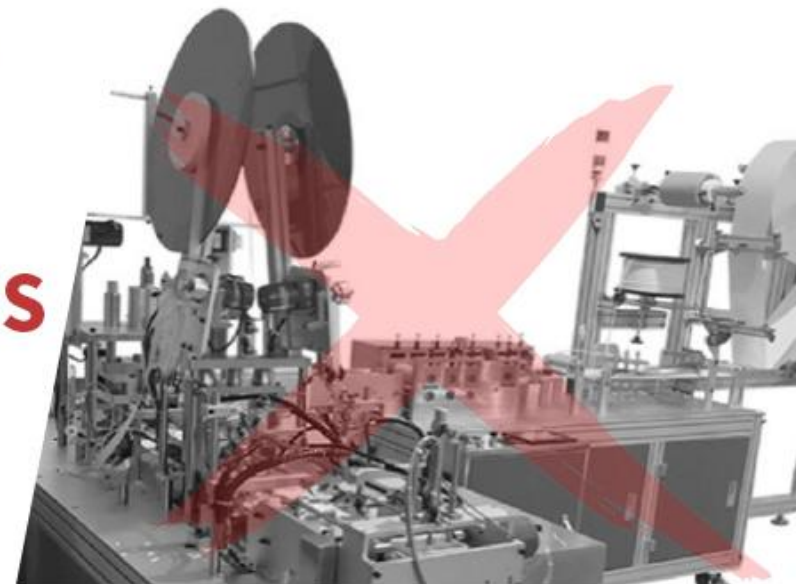
#4 Well-organized wires & details

TESTEX APL110



Built-in wiring, neat package

Low-quality mask machine



The external bare wiring is easy to be touched and cause failure

VS

APL110 Features

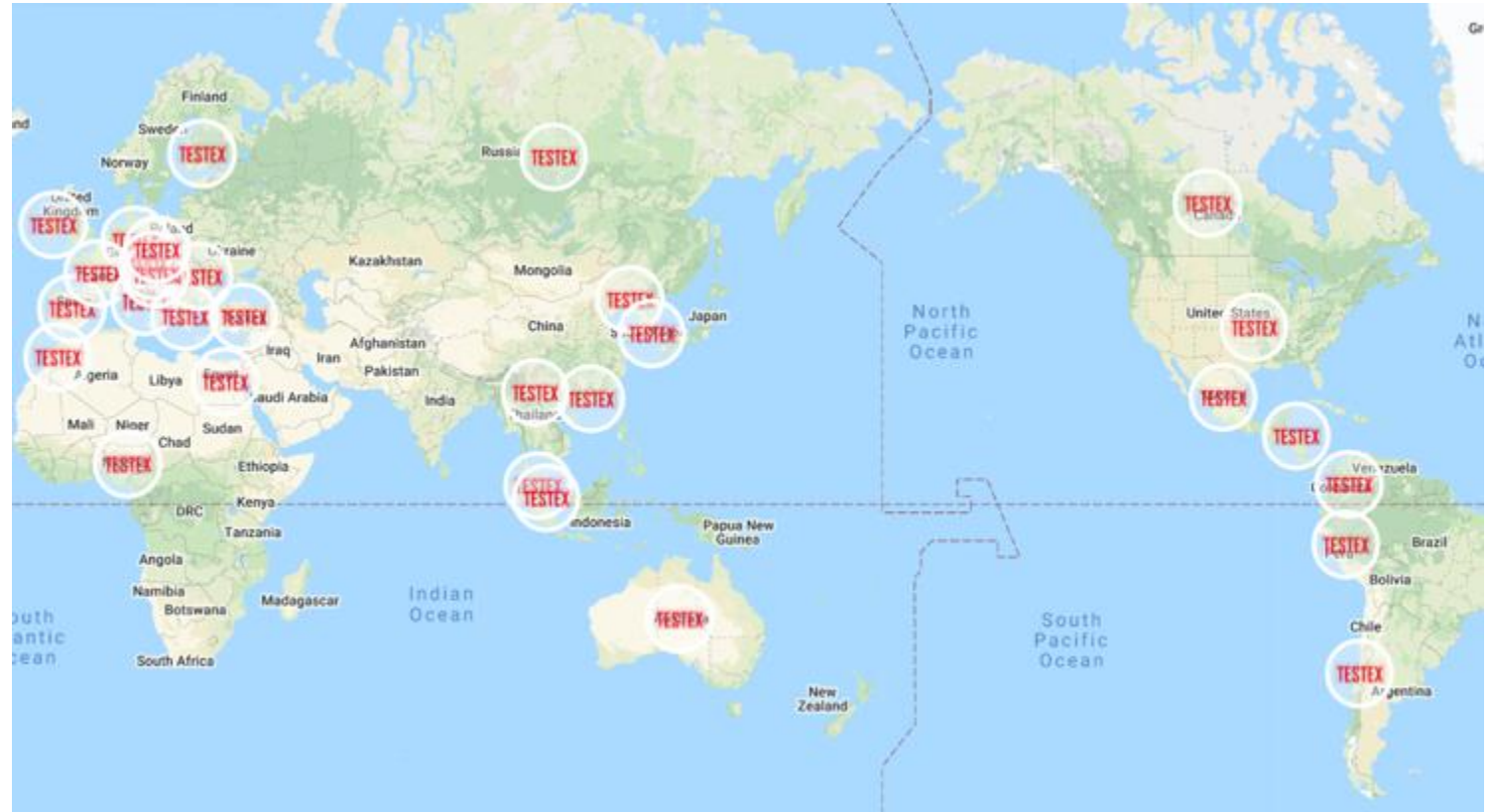
#5 Quality proved by repeat sales data



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73%

Repurchase rate of existing customers



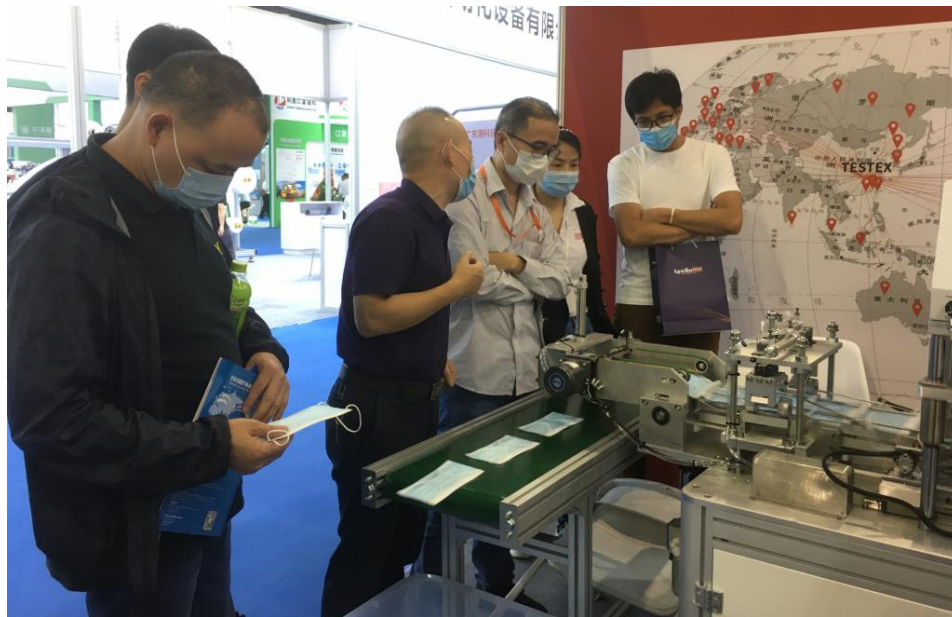
TESTEX Mask Machine sold to 42 countries

APL110 Features

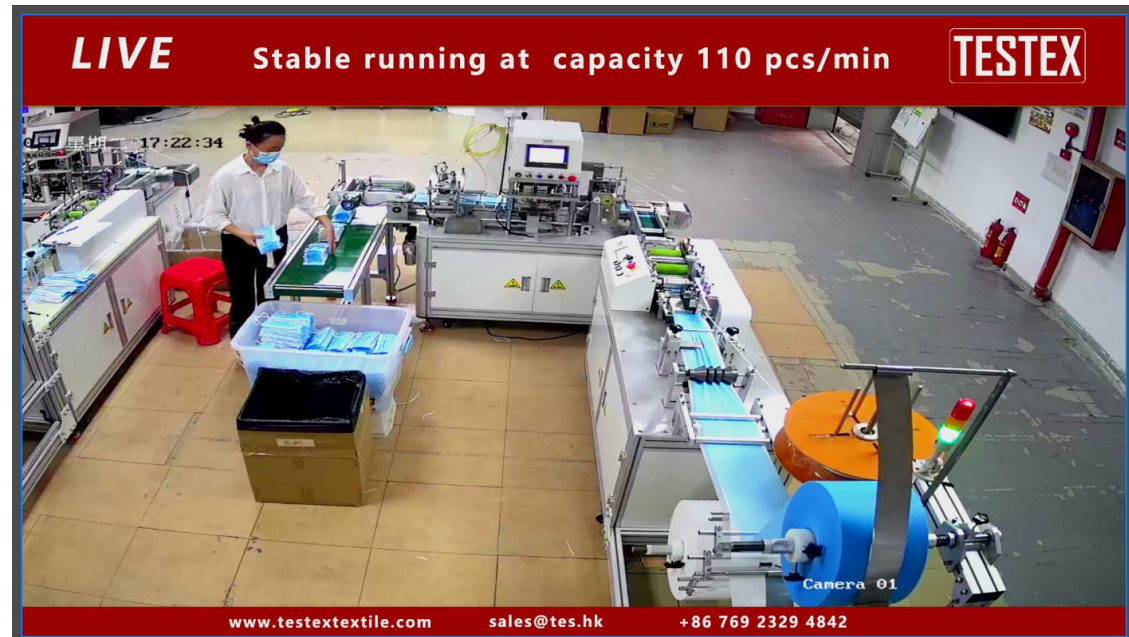
#6 Long-term production verification on stability

At the 2020 China (Dongguan) International Medical Epidemic Prevention and General Health Development Forum and Exhibition, TESTEX APL110 mask machine is **the ONLY mask machine** that dared to maintain the production of 110 pieces per minute throughout the exhibition. The stable quality is obvious to all .

In order to let oversea customers to check the stability of the mask machine, we continue to broadcast live on the Youtube platform for up to 2 to 3 hours.



APL110 running at the exhibition



APL110 Youtube Live

Optional Configuration

APM10 Automatic Mask Packing Machine

APM10 Automatic Mask Packing Machine

TESTEX added mask auto packing function to the mask production solution cautiously. APM10 is the best auto packing machine that works perfectly with the APL110, featuring the total capacity of the APL110 and reliable packing efficiency and quality.



Optional Configuration

APM10 Specification

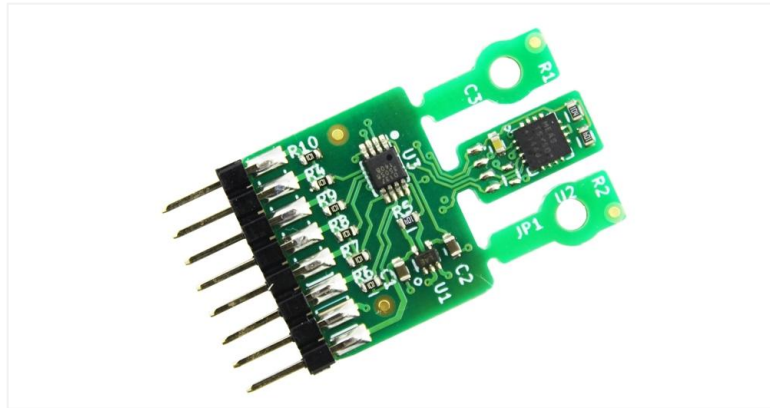
Capacity	30 ~ 120 pcs / min
Film specifications & types supported	Width:140 ~ 320 mm, Thickness: 0.03 mm (e.g. 260 mm for standard adults mask), PP/PE/PS/OPP
Final bag dimension	Length: 60 ~ 450 mm, adjustable (e.g. 210 mm) Width: 40 ~ 120 mm, adjustable (e.g. 105 mm) Height: not defined, (e.g. 1 pcs or 10 pcs per bag)
Power	220 V, 50 Hz, 7.25 Kw
Machine size & weight	4100 x 960 x 1370 mm, 450 Kg
Packaging info.	Two cases, total 570 Kg (Main machine: 1900 x 1070 x 1550 mm, 423 Kg; Conveyor: 2900 x 750 x 490 mm, 147 Kg)



Optional Configuration

APM10 Features

APM10 has been designed with efficiency and stability in consideration, here are some features that tailored for mask packing:

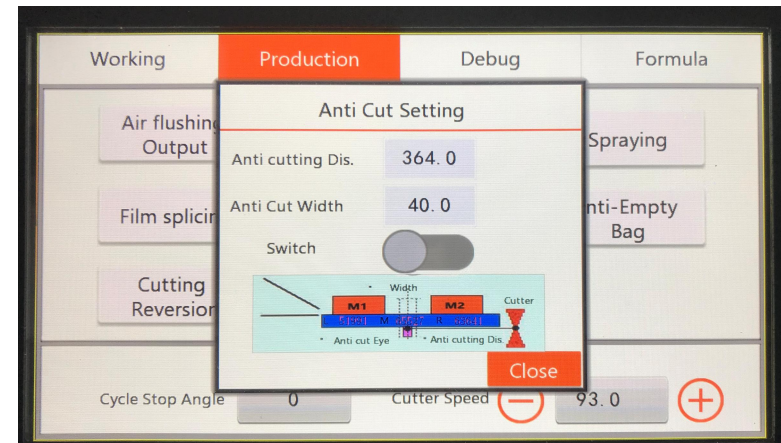


#1 Smart Temp. Control

Easy to set, and high-accuracy sensor, brings precise temp. control, which is vital for film welding strength and consistence

#2 Good UX Design

Intuitive touch screen panel, with rich clear instructions and illustrations, easy to adjust parameters if needed.

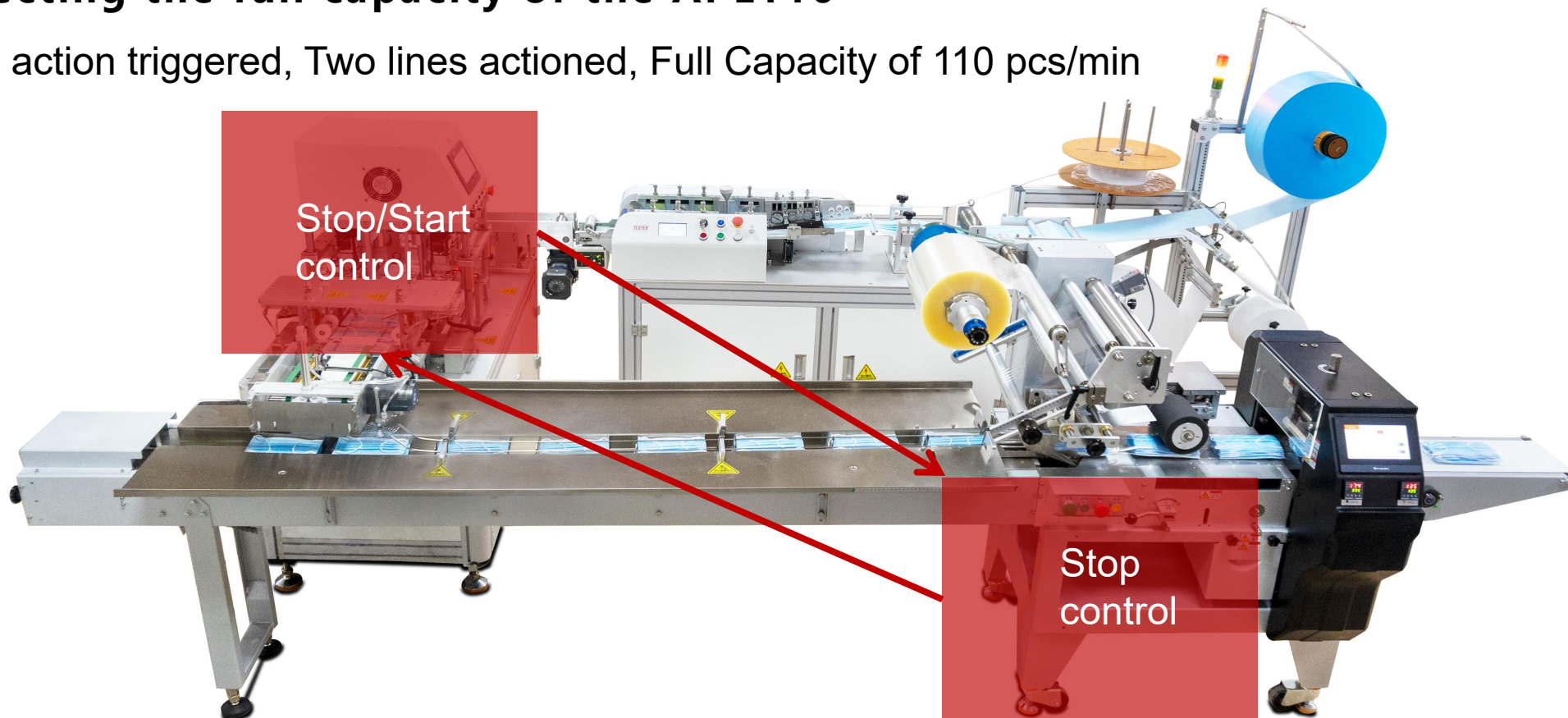


Optional Configuration

APM10 Features

#3 Fully integrated with APL110, brings you associated control experience, and no affecting the full capacity of the APL110

One action triggered, Two lines actioned, Full Capacity of 110 pcs/min



Optional Configuration

Mask Cartoning Machine

Mask Cartoning Machine

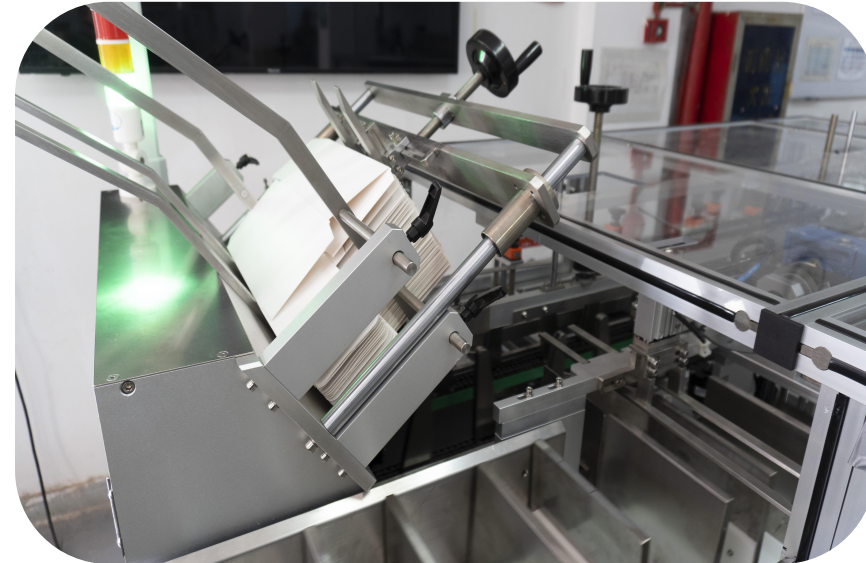
The mask cartoning machine automatically boxes the mask, perfectly matching the APL110. Easy to use with automatic alarm and fault prompt, controlled by PLC microcomputer.



Optional Configuration

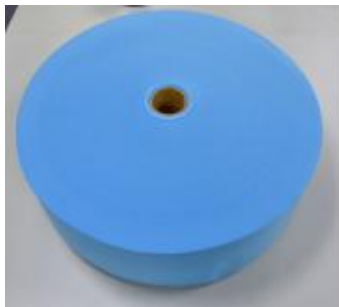
Mask Cartoning Machine Specification

Capacity	10boxes/min
Feature	Easy to use with automatic alarm and fault prompt, controlled by PLC microcomputer. Using interface control, simple to operate and convenient maintenance
Power	220V, 50Hz, 1-4Kw
Box Dimension	225mm*115mm*150mm (L*W*H)
Weight	About 1.5T
Box Requirement	Need to pre-fold, carton indentation is generally at 0.4MM deep. If you open the box by hand, it can't be shaped, and the machine can't open the carton.



Mask Raw Material Specifications & Consumption

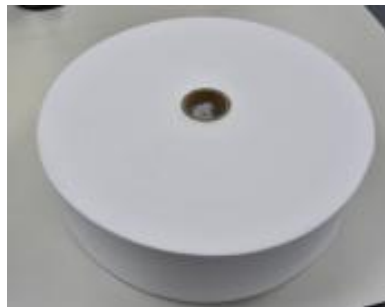
	Color	GSM	Specifications	Length /Mask	Weight/ Mask(g)	1 kg material can produce masks(pcs)	1 ton material can produce masks(pcs)	How many days 1 ton material can be used(100k pcs/day)(days)	One day material consumption(100k pcs/day)(kg)
Outer Spunbond	Blue	25 g/m ²	Width: 175 mm 7.2 kg/roll Dia. 55 cm	175 mm	0.81	1235	1,234,568	12	81
Meltblown	White	25 g/m ²	Width: 175 mm 7.2 kg/roll Dia. 55 cm	175 mm	0.81	1235	1,234,568	12	81
Inner Spunbond	White	25 g/m ²	Width: 195 mm 8 kg/roll Dia. 55 cm	175 mm	0.853	1172	1,172,333	12	85.3
Nose Clip Wire	White	Width 3.2 mm	350 m/kg	90 mm	0.26	3889	3,888,889	39	26
Elastic Earloop	White	Dia. 3 mm	770 m/kg	195 x 2 mm	0.47	1974	1,974,359	20	47.10



Outer spunbond



Meltblown filter



Inner spunbond



Nose clip wire



Elastic earloop

Why Choose TESTEX?



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TESTEX (TESTEX INSTRUMENT LTD) is a national high-tech enterprise and SGS ISO certified company that develops and manufactures testing instruments for textile laboratories.

90% of the TESTEX brand instruments are sold to Europe, America, and Asia. Customers include NASA, National laboratories such as the Naval Academy and university research institutes, as well as international inspection agencies such as ITS, SGS, etc., and automotive brands (interior textiles) such as Land Rover, and apparel brands NIKE, Under Armour, Uniqlo, etc.

To support the prevention and control of the COVID-19 worldwide, due to the company's decades of experience in mechatronics design, R&D, manufacturing, sales, and after-sales, there came the TESTEX brand mask machines. At the end of January 2022, TESTEX has successfully exported hundreds of mask machines, and customers recognize the quality and service well.

