

# APL80 Automatic Mask Production Line

Ver.20200814

Smaller size, Higher capacity



By Testex Instrument Ltd  
Aug, 2020

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# APL80 Mask Production Line Module

Machine	Qty	Capacity	Total Output
Automatic Mask Body Making Machine	1 Set	120+ pcs/min	80+ pcs/min <sup>①</sup>
Automatic Ultrasonic Earloop Welding Machine	1 Set	80+ pcs/min	80+ pcs/min
Conveyor <sup>②</sup>	1 Set	-	-

<sup>①</sup> Need to be adjusted to match the capacity of the automatic earloop welding machine

<sup>②</sup> The movement frequency of the conveyor can be set on the controller, like 10 pcs, 15 pcs, 20 pcs ...

# Mask Bodies Making Machine

## Machine Introduction:

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.



## Ultrasonic device warranty:

Ultrasonic welding controller: 2 years

Ultrasonic transducer: 1 year



## 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

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

# Automatic Ultrasonic Earloop Welding Machine



## Specifications

- Capacity: 80+ pcs/min
- Power: 220 V 50 Hz 1.5 Kw
- Drive type: servo motors
- Air source: 0.4 ~ 0.7 MPa
- Machine size: 1950 \* 1050 \* 1630 mm (L x W x H)
- Machine weight: 311 Kg

## Packaging info. (with 1 set of conveyor included)

- Package size: 1980 \* 1150 \* 1490 mm (L x W X H)
- Package weight: 427 Kg

## Machine Introduction:

Fully integrated with , will sense the mask body delivered from the , then fetch and weld the one set of earloop on each mask body.

Total process needs no manual operation, fully automatic production.




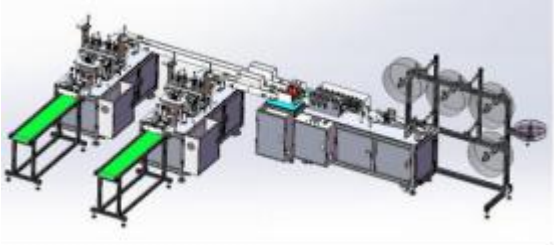
## Ultrasonic device warranty:

Ultrasonic welding controller: 2 years

Ultrasonic transducer: 1 year

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

# Why This Line?




	<b>APL80 We offer</b>	<b>Automatic line in the market</b>
<b>Image</b>		
<b>Capacity</b>	80+ pcs/min 80 is our <b>minimum value</b> we promise, the actual productivity can be 80 ~ 90 pcs	80 ~ 100 pcs/min <b>This is just the claimed capacity by the supplier</b> , in fact, the actual production is <b>less than 80</b> (due to the frequent interruption during the production, since the machine line has more components to sync)
<b>How many earloop welding machines in one line?*</b>	1 Set	2 Sets
<b>Set-up</b>	<b>4 hours</b> setting up time	<b>Many days</b> of trial and error

\* **Less welding machines needed, means more benefits:**

- Less shipping volume, much less shipping cost
- Less machine investment
- Less setting up time
- Lower failure rate, more stable for long time running

	<b>APL80 We offer</b>	<b>Automatic line in the market</b>
<b>Machine quality</b>	Brand accessories: SMC cylinders, Ultrasonic devices, that's a Taiwan brand with <b>2 years warranty</b> of controller and <b>1 year</b> of transducer	<b>Most are no warranty</b> for key components, which result in endless after-sales problems; Some are 3 months, which is <b>meaningless</b>
<b>Machine structure design</b>	1+1 model design, specialized for exporting purpose, <b>reduce the total shipping cost</b>	1+2 design, compared to 1+1 design, add shipping volume up to 50%, which means about <b>50% extra cost*</b>
<b>Main controller interface</b>	Customized UI for mask production, easy & intuitive to use Language available: <b>English, Korean, Chinese</b> , and your language	Interfaces provided by suppliers, no optimization for mask production, <b>poor translation</b>
<b>Services</b>	Detailed video guides on machine installation, material loading, and troubleshooting; Live-stream personal support by engineers with clear English communications <b>Timely &amp; Professional</b>	Most after-sales services are provided by sales only

# Mask Raw Material Specifications & Consumption

	Photo	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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



# Why Choose TESTEX?



**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.

There are more than 100 models of testing equipment developed and manufactured by TESTEX, covering the testing of the performance of various types of textiles and their properties, as well as testing equipment for epidemic prevention materials such as masks and protective clothing.

TESTEX has rich experience in R&D, manufacturing, sales, after-sales training of equipment, and always takes the core value of “We endeavor to achieve our customers’ success, then achieve our staffs’ value, thus achieve our shareholders’ goals.”

## Mask Making Machine, Developed, Tested, Used by Ourselves

Quality and Service are the bottom line of us, quality concerns has helped us to win our reputation in the textile testing instrument market since our foundation (2010).

When the epidemic is over, we may not continue to produce the mask making machine again, all customers who have chosen to buy mask machines from us, had experience to know TESTEX's high demand for product quality, and our striving for quality has never changed.



