Product introduction

- All automatic production of N95 folding mask can be realized in this production line. The equipment is mainly composed of loading station of roll material, feeding station of bridge reinforcement, feeding station of earband and welding station, folding molding station of mask, cutting station of finished product, etc.
- This equipment can be used in the production of four layers of the outer ear with unsealed foldable masks,the dimension of adult mask: 15.7cm x 10.8cm;



the production line is easy to use, stable and reliable, versatile, good compatibility, high strength, high cost performance, etc. the mask produced has the characteristics of comfortable wearing, no pressure, good filtering effect, high face fit, and can be applied to medical, electronic, mining, construction, catering and other industries.

Related information of foldable mask

the outlook of the foldable mask



normally size of fabric raw material of 3 layers/4layers :

No.	ltem	Color	Weight (g / m²)	Width(mm)	Length	External diameter	Inner diameter	Remarks
1	non-woven fabrics (top layer)	White	60	≤280	about2200 m/roll	600mm	3 inches	
2	fliter pulp (middle layer)	White	70	≤280	about1500 m/roll	600mm	3 inches	for civil 20g for medical 25g-30g
3	non=woven fabrics (bottom layer)	White	50	≤280	about2200 m/roll	600mm	3 inches	length :175mm
4	nasal pads	White	NA	≤280				
5	nasal bridge	White	NA	≤10		350mm	3 inches	cut-off length 8cm
6	ear band		NA		1600m			cut-off length of each side:150mm so two sides:150mmx2

Equipment Layout Plan





overall layout dimension L、W、H 9000*2080*2000mm



air tube)

Equipment Process Flow



Advantages Description

- Based on the communication of EtherCAT bus, the whole line system adopts the way of separate equipment level control and summarized to the central system. At the same time, each level control system is equipped with standard Ethernet interface for monitoring system.
- Adopt servo motor drive, high precision, this product is serialized, modular design, standard with rich function of Ethernet bus interface between the earth to improve the efficiency of equipment integration application, to achieve high speed and high precision flow of the line products.
- The product is made of all aluminum alloy frame, the appearance is exquisite, the manual operation area is strictly separated from the equipment movement area, and the personnel safety is guaranteed;
- All regions are equipped with photoelectric detection to avoid mistakes, reduce waste and increase the qualified rate of products;
- > All parts are made of pulley and fixed foot, easy and fast to move, strong fixation, and unshakable;
- \succ 7×24 hours uninterrupted operation, reduced workshop staffing;
- the only manual feeding and material collection is needed, and the intermediate process is automatic, the production efficiency is improved



Parameters

Model No.	870U-20002				
external dimension(mm)	L、W、H 9000*2080*2000mm				
total weight	1800kg				
dimension of produced masks	15.7cm x 10.8cm (adult)				
compressed air	0.6~0.8 Mpa				
voltage:	50Hz AC380V				
power:	18KW				
production efficiency:	≥50pcs/min				
outputs:	≥95%				
operating environment requirements	temperature: 10~35; humidity:35~65%: HR Non-flammable corrosive gas dust free (cleanliness not less than 100000)				
ultrasonic:	15KHz, 2.6Kw, one for outline welding; 20KHz, 1.4Kw, two for ear band welding; 15KHz, 2.6Kw, one for folding welding;				
weld strength	the length of nasal line is no less than 8cm, the break strength of each connection of mask and ear band is no less than 10N				
main brand used:	ESTUN、Omron、WILLAS、MiSUMi、yhda、hiwiin,etc.				
Loading pallets:	6 pieces (or 4) -cloth bolts of 600mm diameters Or 4 pieces of meterial of 1000mm diameters。you can choose 4 or 6 pieces of pallets				

FAQs&Answer

Q:What's the dimension of the product?

A:see in the Equipment Layout Plan

> Q:How many it needs to operate a set of N95 equipment?

A:two,one for feeding raw material and the other for collecting finished products

- > Q:Do I need to disinfect the equipment?and how to do it?
- A:the equipment is mainly used to processing mask,please guarantee the machine is clean,no need for extra disinfecting
- > Do I need some tool to do product test?and What needs to be tested?
- A:yes we need some tool to do test,such as Caliper or ruler (measuring mask size), tension gauge (measuring welding strength of ear wire)
- Q: what materials it needs to produce medical masks?can you help us with the suppliers?

A:I am afraid not temporary

- Q:Can it use to produce medical mask?
- A:the machines to produce common mask and medical mask are the same,the differences lies one the process/raw material/certification

FAQs & Answer

- Q:Can it use to produce Class 100 dust mask?
- A:the machine to produce class 100 dust mask is the same,the only differences are the location of the manufacturer/technology/raw material/certification
- Q:How long it takes to dubugging the production line?
- A:when the production line debugging completed, it needs 2 or 3 days to install, and it can start working(producing) within 7-10 days
- Q:How long it takes to change the material of the 4 layers?
- A:it is quite soon, it take 10-20 minutes/one
- Q:when debugging,dose it need debugging material,if needed,what's the shortest length(or number of bolts) of each equipment?
- > A:yes it needs,the debugging material should be whole bolts or 300kg
- Can you assist in providing a product related technology management system or production assurance system to help us get through quickly??

A:temporary not