

What item Kaihua could supply:

1. Protective mask
2. KN 95 protective mask
3. KN95 Medical mask (CE, FDA)
4. Medical mask (Non-surgical)
5. Medical surgical mask
6. Medical suit
7. Full automatic N95 mask machine



## Disposable Non-woven Protective Mask

- Three Layers of Protection
- Bacterial Filtration
- Comfortable and Skin-friendly





## Product Parameters

### [Product Name]

Disposable mask (for civil use)

### [Range of Application]

The product is intended to be used for medical institution and home care

### [Construction]

Non-woven fabric type: The non-woven fabric and the filter fabric are made by folding, hot pressing, cutting and spot welding with the elastic belt, including the ear type and the strap type.

### [Packaging]

Close packaged by wrapping paper and plastic carton

## Three Layers of Protection

### Polypropylene spunbond non-woven fabric

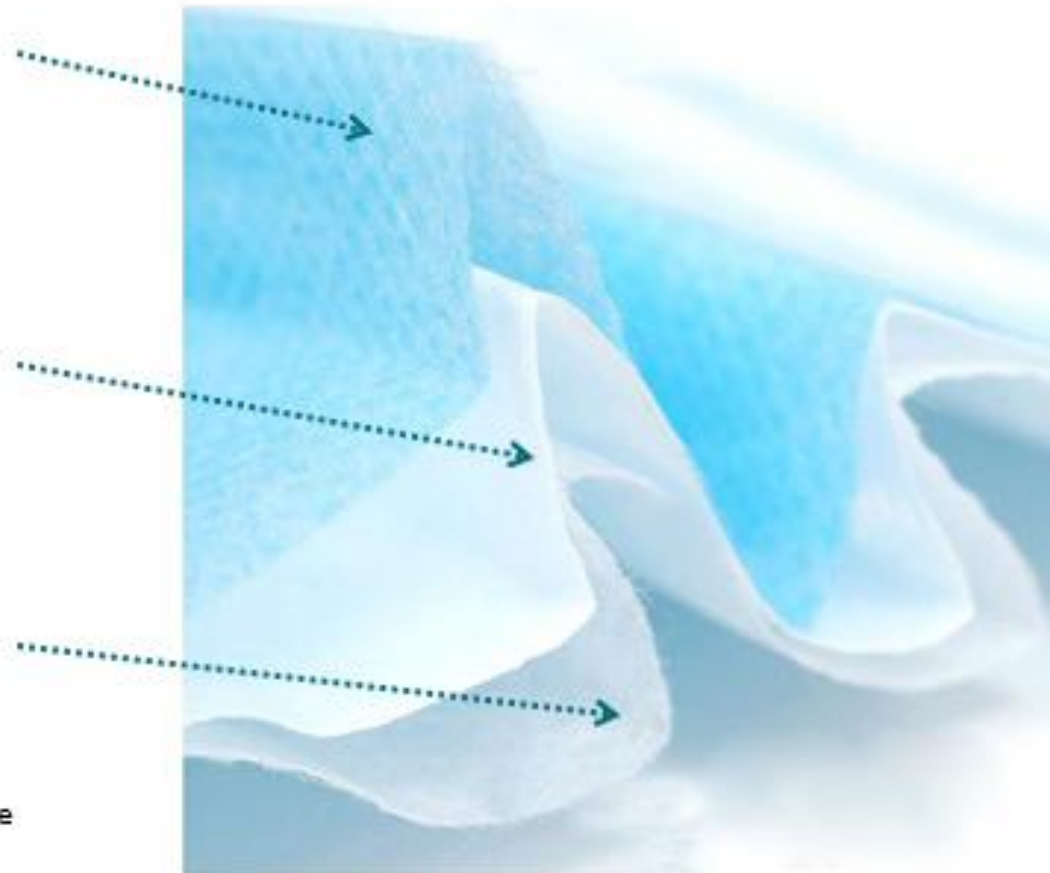
Effectively block visible objects such as droplets

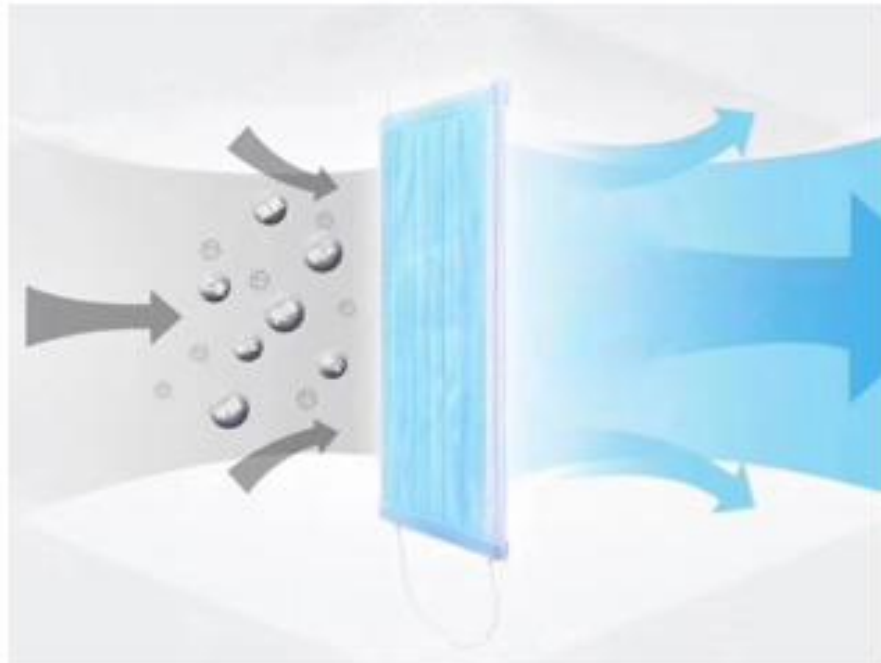
### Melt blown fabric

Filtration of non oily particles in the air

### Polypropylene spunbond non-woven fabric

Absorb the hot gas exhaled from the body, keep the skin dry and comfortable





## Layers of protection

Three layers folding design, filtering fine particles, skin friendly non-woven material, synthetic memory nose clip, comfortable elastic ear band

Decompose, neutralize, adsorb, clean air

The folding three-layer structure is adopted to filter the dust in the air and provide three-dimensional breathing space.

## Three Layers of Protection

### Fit Face

Synthetic memory nose clip is adjustable, flexible, flexible, and easy to fit the face.

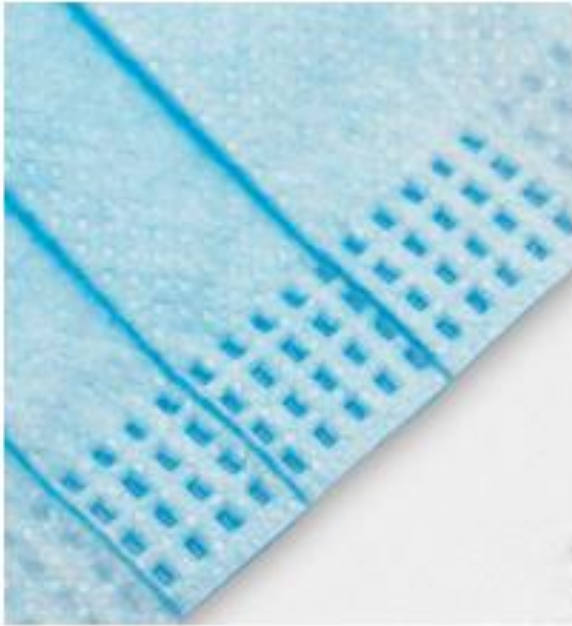


### Melt blown fabric

filtering fine particles, skin friendly non-woven material,



## Three Layers of Protection



### Ultrasonic spot welding

Strong enough to pull many times

### Thickened ear tape

Buhler's ears are comfortable to wear



## N95 Protctive Mask



### Professional antivirus

Your health respiratory specialist



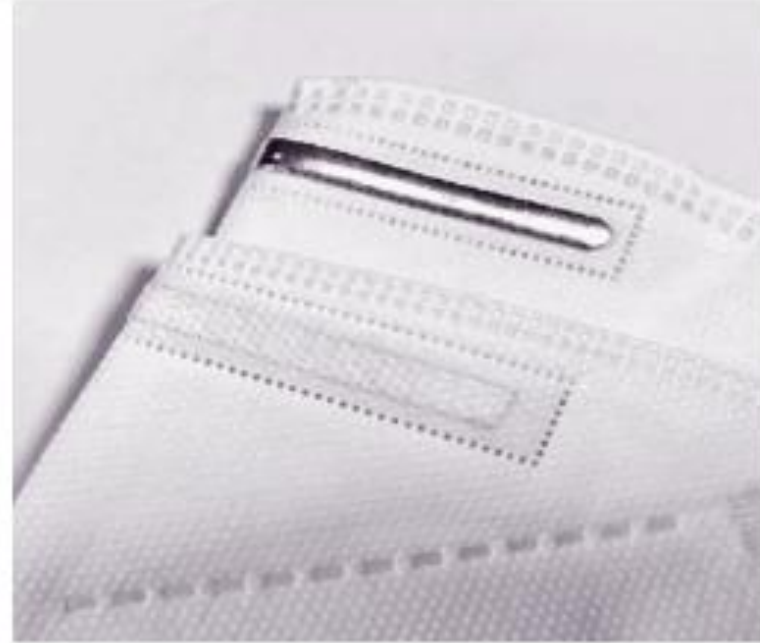


## N95 Protective Mask



### Inteanal sponge strip

Relieve the pressure of nose, and the bridge of nose is less pressed when wearing



### Easy extension nose bridge

Reduce fogging of goggles

## N95 Protective Mask

### Adjustable elastic ear Lanyard

Flat drawstring to protect ears. If it is worn too big, tie drawstring



## Application scenario



### Hazy Weather

Put it on to filter the dirty air when you go out



### In a crowded place

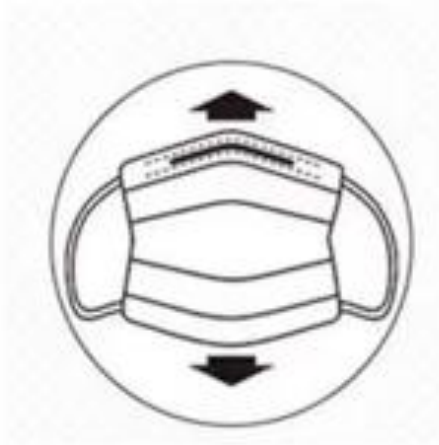
Put on the mask and enjoy a safe and reassuring communication.



### For family members

Caring for the health of family members and elders.

## How to wear a mask correctly



Take out the mask and distinguish the inside and outside, fit the mask to the face, and pull the lower end to the chin;



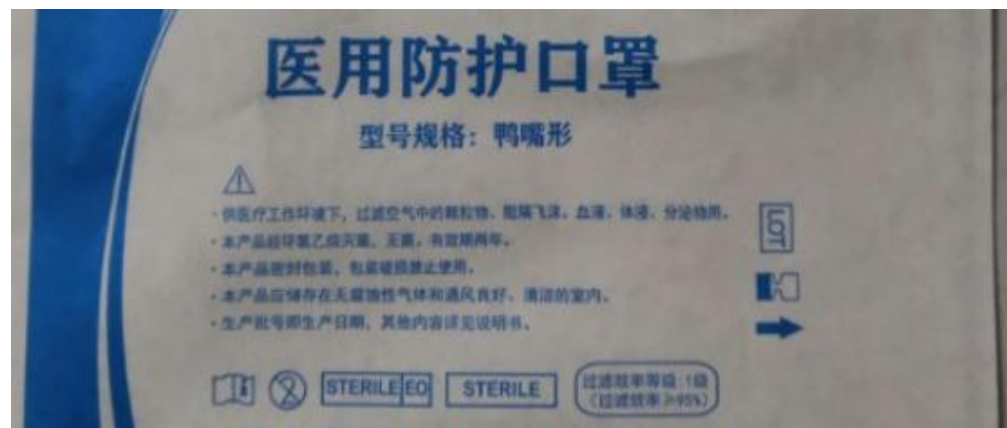
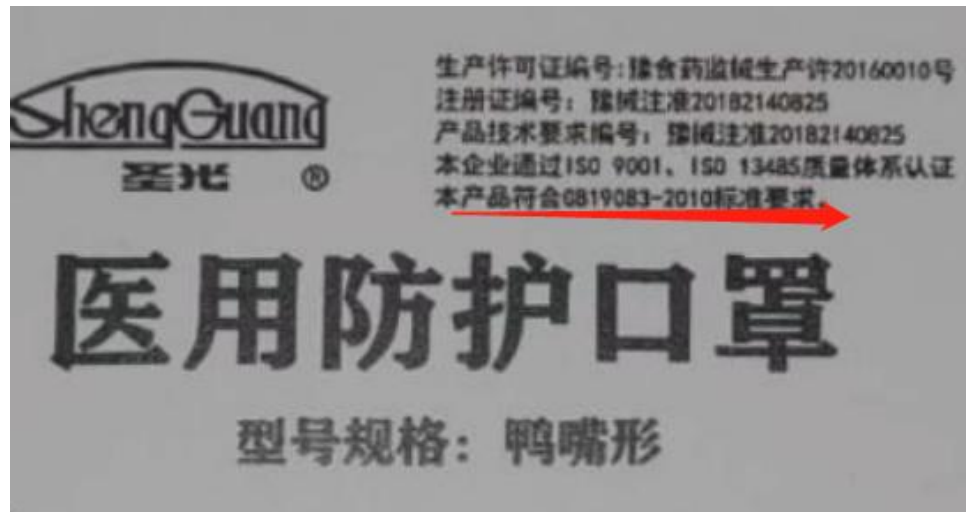
Fit the upper end of the mask on the nose, and cover the middle part of the mask on the nose and mouth;



Then hang the ear strap on the ear and adjust the pull rope to a comfortable state.

# KN95 Medical mask

210,000 pc / 1\*20FT  
CE Certificate



KN95 Medical mask

FDA Certificate

 **Product Display**



**N95 respirator**



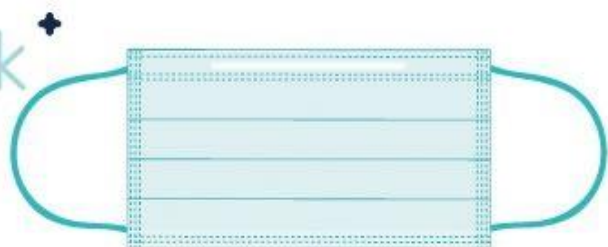
A064

# Disposable Medical Mask

一次性使用

## 医用口罩 (非外科用)

耳挂式平面形



二类医疗器械



### 产品说明书

【产品名称】一次性使用医用口罩 (非外科用)

【生产许可证编号】鲁食药监械生产许20120047号

【注册人/生产企业名称】青岛海诺生物工程技术有限公司

【生产地址】青岛市莱西市莱山镇工业园海诺新工业园区1号

【售后服务地址】青岛海诺生物工程技术有限公司

【规格型号】非无菌 耳挂式平面形 17.5cm×9.5cm

【医疗器械注册证号/产品技术要求编号】鲁械注准20162640494

【注册人住所】青岛市莱西市莱山镇工业园

【联系方式】

电话:0532-86463333/86464444 传真:0532-86460000

【产品结构组成】由口罩体、鼻夹和口罩带组成。口罩体有三层结构分为:内、外层为聚丙烯 (PP) 无纺布,中间层为聚丙烯 (PP) 熔喷布。鼻夹为聚乙烯 (PE) 包裹铝线丝。口罩带为弹性或非弹性材料,弹性材料为氨纶;非弹性材料为聚丙烯 (PP) 无纺布。

【产品特征】外观平整无褶皱,形状完好,表面不带有破损、污渍;口罩佩戴好后,应能罩住佩戴者的鼻、口至下巴;口罩上应配有鼻夹,鼻夹由可塑性材料制成,鼻夹的长度不小于9.0cm,口罩带应佩戴方便,每根口罩带与口罩体连接点处的断裂力应不小于10N,口罩的细缝过滤效率应不小于95%,口罩两侧面进行气体交换的压力差 $\Delta p$ 应不大于49pa。产品若无菌,环氧乙烷残留量应不超过10 $\mu$ g/g。产品若为非无菌,微生物限度应符合技术要求。

【适用范围】供临床各类人员在非无菌创操作过程中佩带,覆盖住使用者的口、鼻及下巴,为防止病原体微生物、颗粒物等的直接通过提供一定的物理屏障。

【使用环境】适用于各医疗卫生单位及家庭。

【使用方式】1.将口罩置于脸的下半部,使其罩于向外。 2.按压鼻夹使其完全贴合,将口罩下缘向下拉至覆盖下巴,将耳绳挂于耳背,鼻后缘口罩已完全覆盖脸的下半部并得到最大面积的防护效果。

【保质期、注意事项、警示以及提示的内容】本产品属于一次性使用产品,在打开包装后应尽快使用;“产品使用后请按医疗垃圾处理方法妥善处置;”请勿使用包装已破损和已失效的产品。

【贮存条件、方法】应贮存于干燥、通风、无腐蚀性气体的环境中,远离热源及易燃物。

【运输条件、方法】采用押运或厢式货车运输。

【生产日期/生产批号、失效日期】见封口

【有效期】三年 (注:有效期由加速老化试验获得)

【医疗器械检验所用图形、符号、缩写的解释】

非无菌型产品



一次性使用

【说明书的修订日期】2020年01月30日

10只装

检验合格 HAINUO

非无菌

图片与实物或有区别,请以实物为准



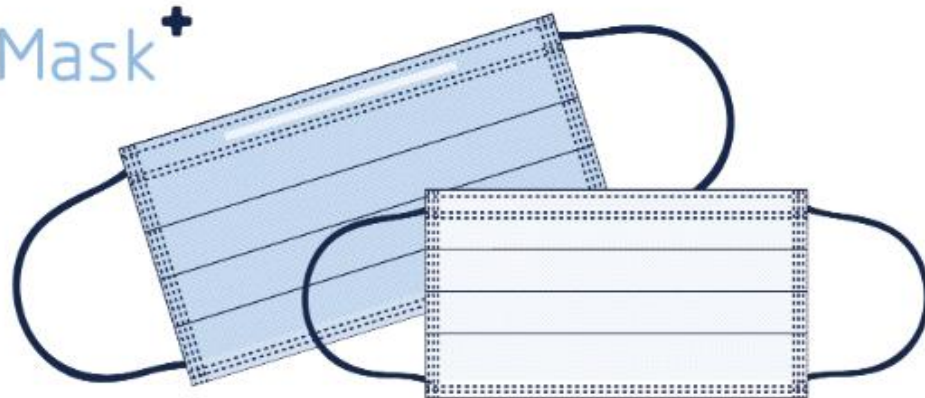
A061

## Disposable Medical Mask<sup>+</sup>

一次性使用

# 医用外科口罩

非无菌 耳挂式平面形



### 说明书

【产品名称】一次性使用医用外科口罩 【型号】非无菌 耳挂式平面形 【规格】17.5cm×9.5cm  
 【产品结构组成】产品由口罩体、鼻夹及口罩带组成。口罩体有三面结构分为：内、外面为聚丙烯(PP)无纺布，中间层为聚丙烯(PP)熔喷布。鼻夹为聚乙烯(PE)包裹部独立。口罩带为弹性或非弹性材料，弹性材料为氨纶；非弹性材料为聚丙烯(PP)无纺布。  
 【产品性能】外观应平整平整、形状完好，表面不得有破损、污迹；口罩佩戴好后，应能罩住佩戴者的鼻、口至下颌；口罩上应配有鼻夹，鼻夹由可塑性材料制成，鼻夹的长度不小于6.0cm，口罩带应佩戴方便，每根口罩带与口罩体连接点处的断裂强度应不小于10N，口罩的垂直面过滤效率应不小于95%，对非油性颗粒过滤效率应不小于30%，口罩两侧面进行气体交换的压力差 $\Delta p$ 应不大于49pa，口罩材料经明火灼烧后继续燃烧时间不超过5s，无菌型产品应无菌，环氧乙烷残留量应不超过10 $\mu$ g/g，非无菌型产品符合技术要求中的微生物指标。  
 【适用范围】供临床医务人员在有创操作过程中佩戴，覆盖住使用者的口、鼻及下部，为防止病原体随生物、体液、颗粒物等的直接透过提供物理屏障。  
 【使用环境】非无菌型只适用于普通环境中的一次性卫生护理。  
 【使用方法】打开包装，取出口罩，带鼻夹处为上方，折平方向为口罩里层，口罩外层褶皱向下，戴上口罩，轻捏鼻夹，使口罩紧贴面部，覆盖住使用者的口、鼻及下部。  
 【禁忌症】无  
 【注意事项、警示以及提示的内容】\*本产品属于一次性使用无菌/非无菌产品，在打开包装后应尽快使用；\*产品使用后请按医疗垃圾处理方法妥善处置；\*请勿使用包装已破损和已失效的产品。

【贮存条件、方法】应贮存于干燥、通风、无腐蚀性气体的环境中，远离火源及易燃物。  
 【运输条件、方法】采用密封或厢式货车运输。  
 【生产许可证编号】鲁食药监械生产许20120047号  
 【医疗器械注册证编号/产品技术要求编号】鲁械注准20162640493  
 【注册人/生产企业名称】青岛海诺生物工程有限公司  
 【注册人/生产企业住所】青岛市莱西市姜山镇工业园  
 【生产企业的生产地址】青岛市莱西市姜山镇工业园海诺生物医药新区1号  
 【售后服务单位】青岛海诺生物工程有限公司  
 【联系方式】电话：0532-86463333/86464444 传真：0532-86460000  
 【说明书的修订日期】2020年01月 30日

【有效期】三年(注：有效期由注册老先生试验获得)  
 【生产日期/生产批号/失效日期】见包装

⊗ 图片与实物或有区别，请以实物为准

非无菌型产品

10只装

检验合格 HAINUO







## Disposable Protective Suit for Medical Use

Weihai Dishang Medical Technology Co., Ltd.

**The largest key protective suit supplier of  
Shandong province for central authorities  
and the military . 🏆**



## 4 core advantages

One of 5 enterprises in China that has capability of adopting ethylene oxide (Different from radiation sterilization, sterilized articles won't be corroded and can be wrapped and completely packaged to keep sterile).

Largest capacity as the key protective suit supplier of Shandong province for central authorities and the military .



Chinese standard: GB19082-2009  
European standard: EN14126- Level 4  
(With standard of EN14126 , liquid barrier performance level II or above ,meanwhile getting European CE certification, which enables to be used as medical protective suite in case of emergencies)

100,000-Level Purification Workshop

 **Product display**



**Two-piece Hooded Design**

With two-piece hooded three-dimensional cut and elastic band around the face opening, the hood can better fit the shape of face and enhance the protection effect.



**Seam sealed tape workmanship**

Each seam is sealed with tape, and the waist is applied with an internal elastic band, which better enhance the seam protection and the fitness of the suit.



**Elastic cuff**

The cuff uses an internal elastic band to further enhance tightness and protection.



 **Product display**



**Closed Placket Design**

Center front zipper application allows easy put-on and take-off, while the zipper placket design brings better protection



**Elastic bottom hem closure**

Internal elastic band is applied to the bottom hem, with added shoe cover, which enhances fitness and protection

## Technological details

(1) Needle stitching, bonding, and heat-sealing processes are applied to the connection part of the protective suit. The holes of the stitches are sealed. The stitch pitch should be 8 to 14 stitches per 3cm. The stitches are aligned and properly spaced. There shouldn't be skipped stitch. Bonded or hot-sealed parts shall be flat and sealed without air bubbles.



(2) The zipper of the protective clothing should not be exposed, and the zipper puller should be self-locking.

(3) The structure of protective suit should be in conformity, easy to put on and take off, and the joints must be tight.

(4) Elastic cuffs and ankles, and elastic hood and waist openings.

(5) The protective suit is in overall structure, which consists of a hooded top and pants.

### SPECIFICATIONS

UNIT: CM

SIZE	HEIGHT	BUST	SLEEVE LENGTH	CUFF	HEM
160	165	120	84	18	24
165	169	125	86	18	24
170	173	130	90	18	24
175	178	135	93	18	24
180	181	140	96	18	24
185	188	145	99	18	24
200	200			18	24
DEVIATION	±2	±2	±2	±2	±2

## Fabric Description



**Materials:** Polypropylene spunbonded PE film coated nonwovens

**Content:** 100% polyester



Antibacterial



Anti-static



Soft



Waterproof



Breathable

As a national key responsive supply entity, Dishang's procurement of fabric and trims is in accordance with national standards.

The entire process and raw materials are up to the highest standards.

The fabrics, seal tapes and zippers are in accordance with national standards. As a national key responsive supply entity, Dishang Group assists the government in developing various new protective suits.

The protective suit is made of PP spunbond non-woven fabric laminated with PE film. The raw material is high in strength, soft in touch, skin-friendly, comfortable to wear, and strong in antistatic performance.

It has good anti-infiltration performance, high filtering efficiency, surface moisture resistance, strength and air permeability, which allows it to effectively prevent dust and water.

 **100,000-Level Purification Workshop**



**Workshop  
production site**

**+ 100,000-Level Purification Workshop**



**Specialized Production Equipment**



**Strict Process Requirements**



 **100,000-Level Purification Workshop**



**Specialized Production  
Equipment**

**Strict Process  
Requirements**

**+ Strict production hygiene control**



**1. Take off shoes and enter the dressing area**



**2. Primary dressing**



**3. Wear hair cap**



**4. Secondary dressing (wear protective suit)**



**5. Secondary hand washing and disinfection**



**6. Enters the air shower room**

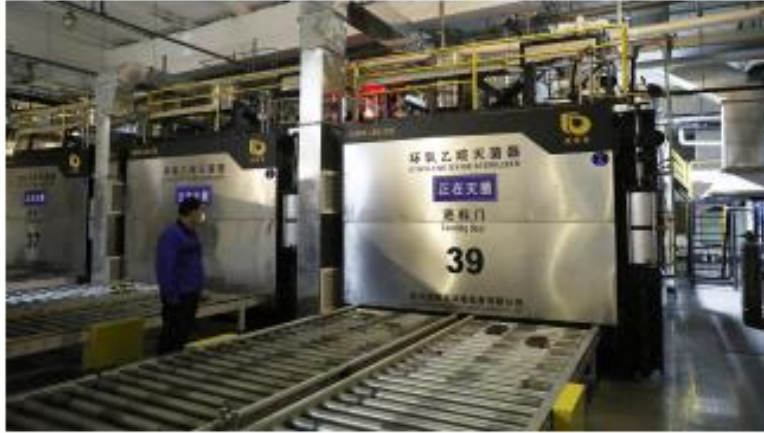


**7. Go through the air shower room**



**8. Leave the air shower room and enter the production area**

**+ Best disinfection technology: 10 hours sterilization with ethylene oxide**



**We use ethylene oxide for 10-hour sterilization of the protective clothing. At present, ethylene oxide is widely used in sterilizing medical devices.**

1 Ethylene oxide can kill all microorganisms, including spores, bacteria, viruses, etc.

2 The sterilized articles can be wrapped and packaged as a whole to keep them sterile before use.

3 Ethylene oxide does not corrode plastics, metals or rubber, and does not cause items to turn yellow and brittle.

4 Ethylene oxide can sterilize items with irregular shapes and complex structures.

## Prime Minister's Visit



Premier Li Keqiang visited Dishang Group on April 20 and spoke highly of Dishang Group as a model for the transformation and upgrading of traditional industries. He praised Dishang for "digging up gold mines in traditional industries" and "growing new branches from old trees".

## National Platform



- National Industrial Design Center
- National Demonstration Base for Innovation and Entrepreneurship
- E-commerce Demonstration Enterprise Selected by the Ministry of Commerce
- China Apparel Digital Design R&D Center
- Technology-Advanced Service Enterprise
- Manufacturing Industry Innovation and Entrepreneurship Platform Pilot Demonstration Project
- National Intelligent Manufacturing Pilot Demonstration Project
- National Textile and Apparel Creative Design Pilot Platform
- China Dishang Fabric Center of National Textile Fabric Museum
- China Fashion Design Innovation Center



## ■ Wearing protective suit

1. Disinfect your hands before wearing.
2. Select the appropriate size.
3. Wear pants first and then the top , put on safety shoes or shoe covers, put on the hood and zip up, velcro up center front placket and put on protective gloves.

## ■ Removing protective suit

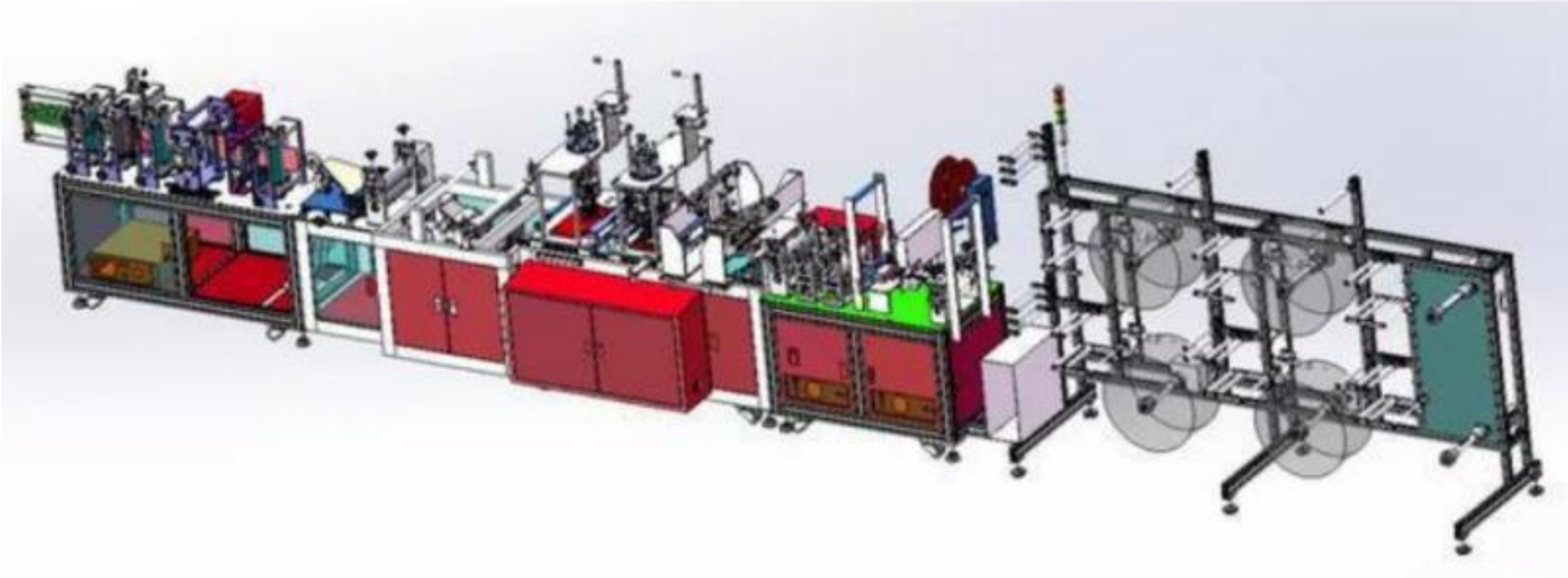
1. Please remove it in the safe zone. First remove protective gloves, disinfect hands, and then wear gloves.
2. Remove other protective articles, unzip the zipper, lift the hat upward to separate the hat from the head, take off sleeves, jackets, lower clothes and protective shoes, take off the edges and roll them from top to bottom, take off pollutants directly toward the inside, and put them into the designated container together with shoe covers or safety shoes after taking off.

## Industrial Applications

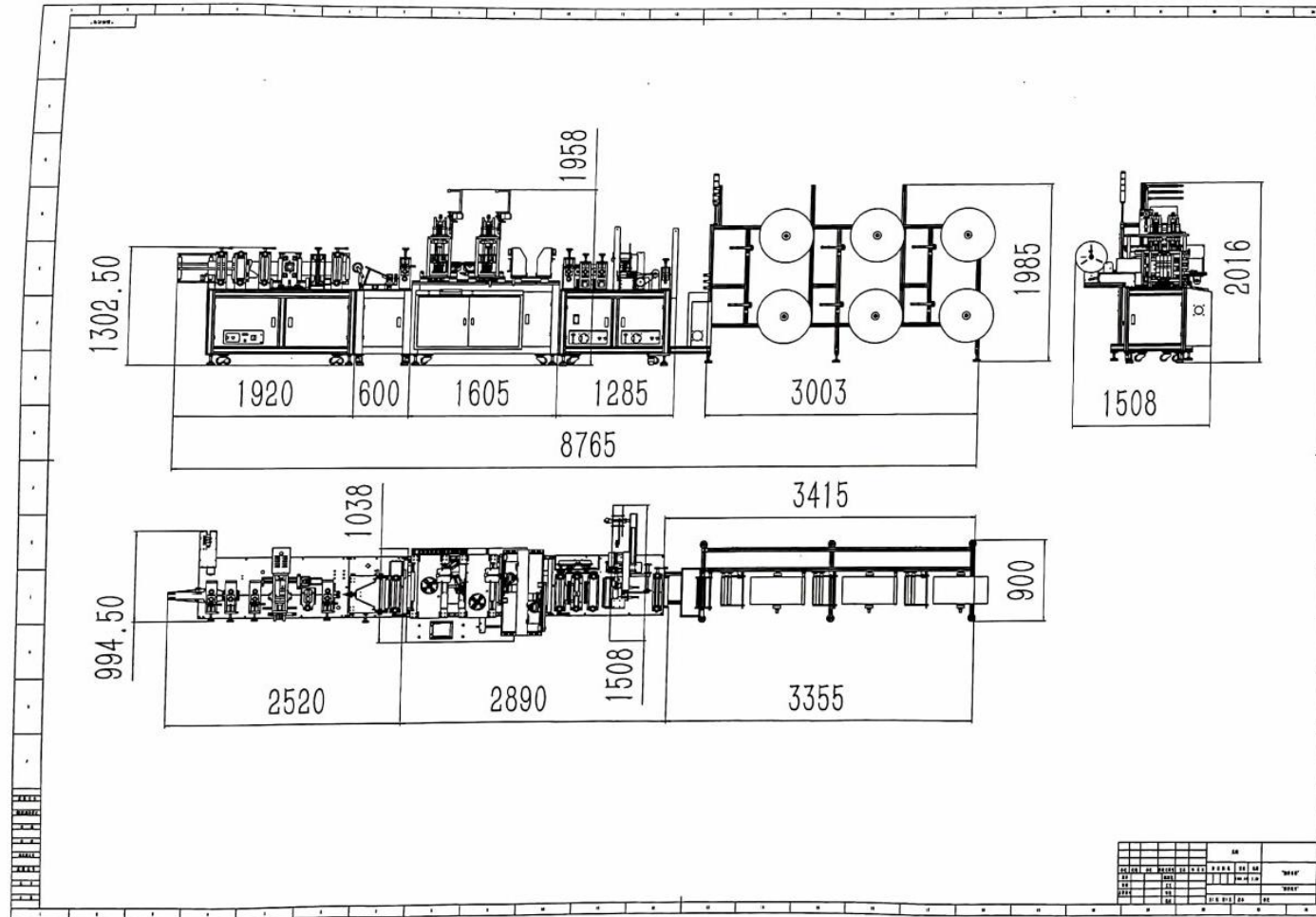


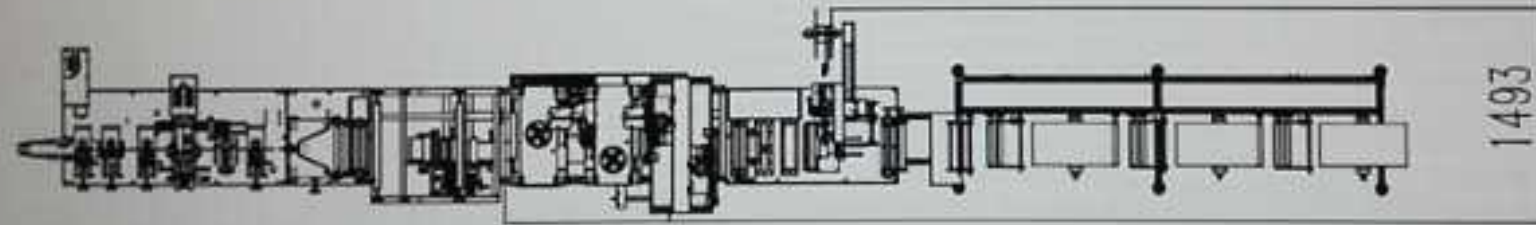
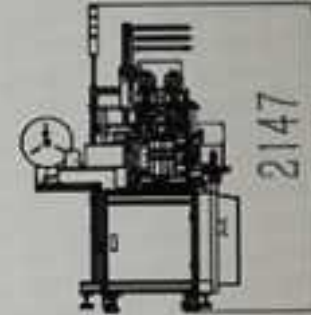
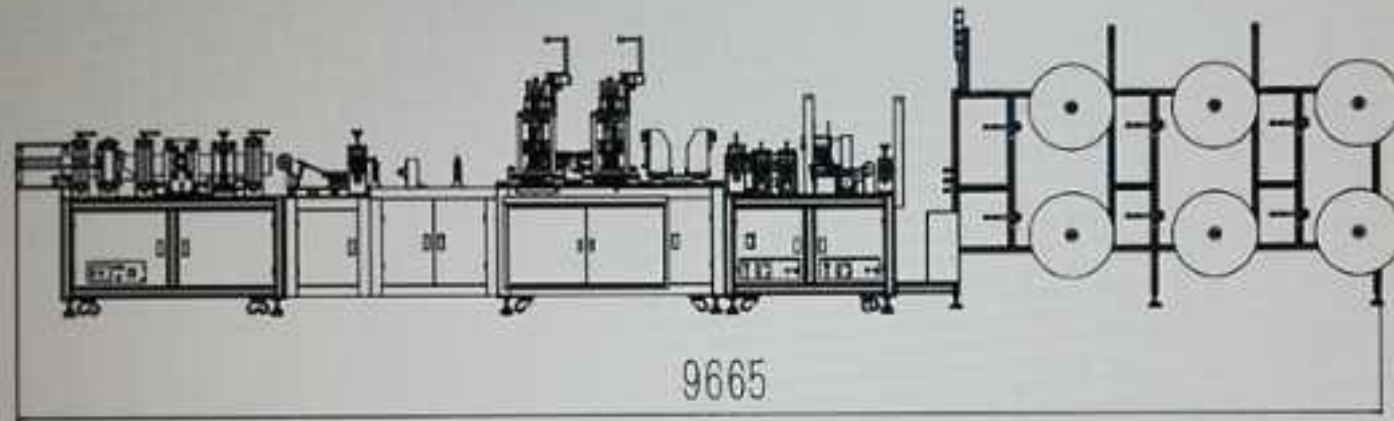
It can be applied in industries such as electronics, electrical appliances, food, cosmetics, packaging, automotive coating, biotechnology, experimental labs etc.

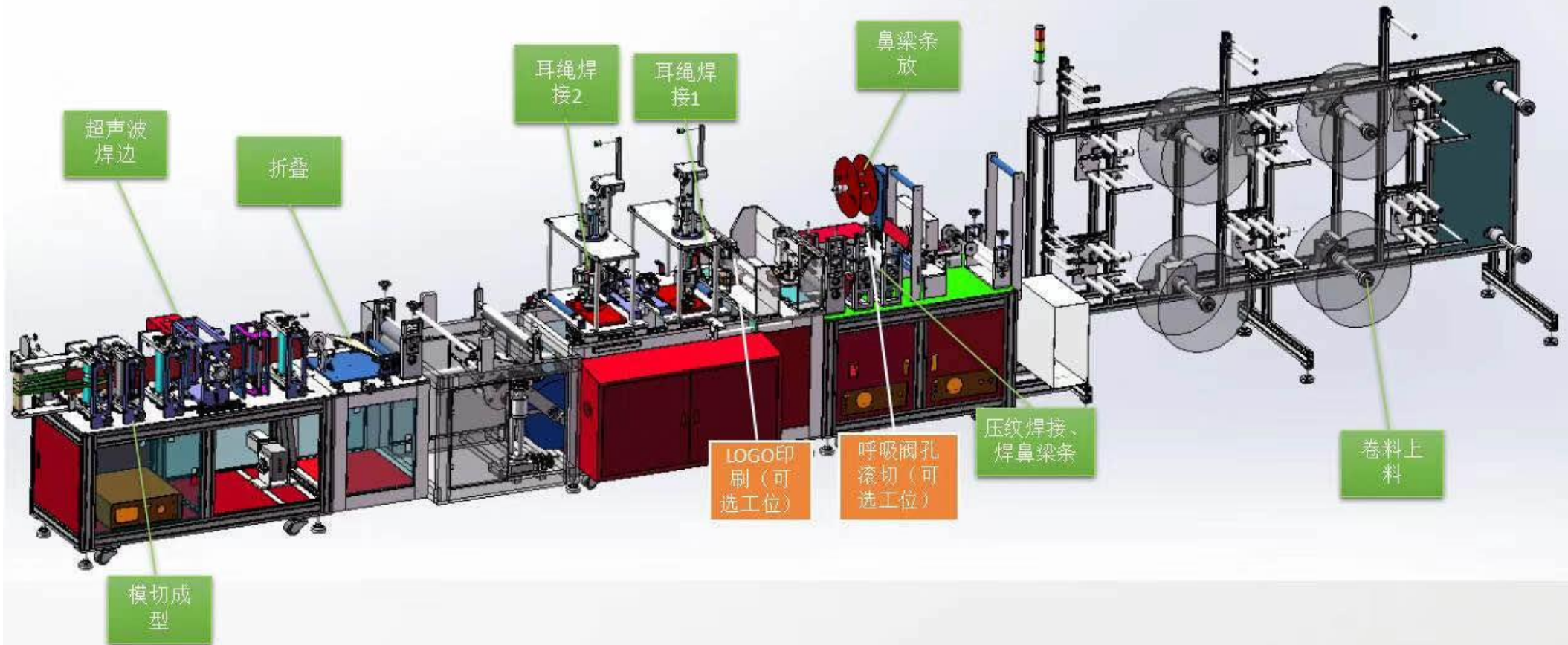
Full automatic N95 mask machine











# 耳带式N95口罩 自动生产线



## 设备参数

设备尺寸	14500mm(L)x900mm(W)x2200mm(H)
外观颜色	国际标准暖灰1C (标准色) , 无特殊说明时按照此标准
设备重量	≤5000kg, 地面承重≤500KG/m <sup>2</sup>
工作电源	设备380V, 50HZ, 额定功率约15KW
压缩空气	0.5~0.7 M Pa, 使用流量约300L/Min
使用环境	温度10~35℃、湿度5-35%HR, 无可燃性、腐蚀性气体、无粉尘(洁净度不低于10万级)
生产效率	20ppm (每分钟效率)
对折对称度	+/-2mm
设备故障率	2% (指设备自身所产生的故障)

Thanks a lot for your time.

ZHEJIANG KAIHUA MOULDS CO.,LTD.

E-mail: [gina.bao@china-kaihua.com](mailto:gina.bao@china-kaihua.com)

Contact: Ms.Gina Bao

Mobile No.: +86 1351 686 5280