

MASTER PRO - 2/3/4PLY/N95 FACE MASK MACHINES



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Face Mask Project

The demand for N-95 masks has increased rapidly, with the sudden outbreak of global pandemic COVID-19 across the globe. With the rapid surge in the patient pool around the world, due to infectious disease such as COVID-19, is boosting the growth of the market. Increasing demand for N95 masks across the world due to shortage of masks, further fueling the growth of the market. In addition to this, with the outbreak of the Corona Virus, the demand is up to 100 times higher than regular demand in the world. In the countries like India there is an ample need of such product both at the Healthcare units as well as other Industrial units and organization to provide protection from the air transmitted nano-particles.

3PLY/Surgical Face Masks:

The masks are made with non-woven fabric, which has better bacteria filtration and air permeability while remaining less slippery than woven cloth. The material most commonly used to make them is polypropylene, either 20 or 25 grams per square meter (gsm) in density.

Masks can also be made of polystyrene, polycarbonate, polyethylene, or polyester.

N-95/KN95 Face Masks:

The respirators and surgical masks (face masks) are examples of personal protective equipment that are used to protect the wearer from airborne particles and from liquid contaminating the face.

The N95 masks are specially designed to filter out at least 95% particles from breathing in including dust and molds. A medical N-95 respirator consists of multiple layers of non-woven fabric, often made from polypropylene. The two outward protective layers of fabric, covering the inside and outside of the mask are created using spun bonding. Between the spun bond layers there's a pre-filtration layer, which can be as dense as 250 g/m², and the filtration layer. The pre-filtration layer is usually a needled nonwoven fabric material.

The last layer is a high efficiency melt-blown elected (or polarized) non-woven material, which determines the filtration efficiency.

This project profile has been prepared to promote and encourage the existing as well as budding entrepreneurs to setup a manufacturing facility to produce N-95/KN95 Mask and cater to the demand of 3PLY/N95/KN95 masks keeping in view the emerged growing need during the present pandemic days because of COVID-19. It also aims at to create the job for the migrant Laborer's returned to village in addition to create the scope of training and new line of entrepreneurship.

MASTER PRO - 3PLY

This equipment is mainly composed of plane mask punching machine and plane ear-band welding machine, which is mainly used for the manufacture of disposable masks.

Semi-automatic production, easy operation, low error rate, easy for manual maintenance, ear strap welding machine can be added later according to production needs.



SPECIFICATIONS

Production Rate (3PLY)	65-67 Mask/Min
Mask Dimension	12.7x7.5cm-17.5x9.5cm
Mask Type	2PLY / 3PLY/ 4PLY Surgical Face Mask
Power	3 HP 220V/50Hz 3.5kw
Dimension Of Machine in mm	L:2895.6; W:914.4; H:1584.96
Weight Of Overall Machine	390KG
Certificate	CE
Control Mode	Frequency Conversion Control
Required Material	Spunbond - Polypropylene Non-Woven Fabric



ACCESSORY

Additional equipment to operate this machinery. High quality and super dynamic performance. Provided as complementary support for new start-ups. Applicable for only with 'Order Contract'
*T.C apply

AIR COMPRESSOR

Voltage and Frequency	120-220V 50 60HZ
Dimension in mm	L: 1420 W: 520 H: 970
Weight	70KG
Drive Mode	Silent Oil-Free Compressor

Ultrasonic Earloop Welding Machine - 3 Set

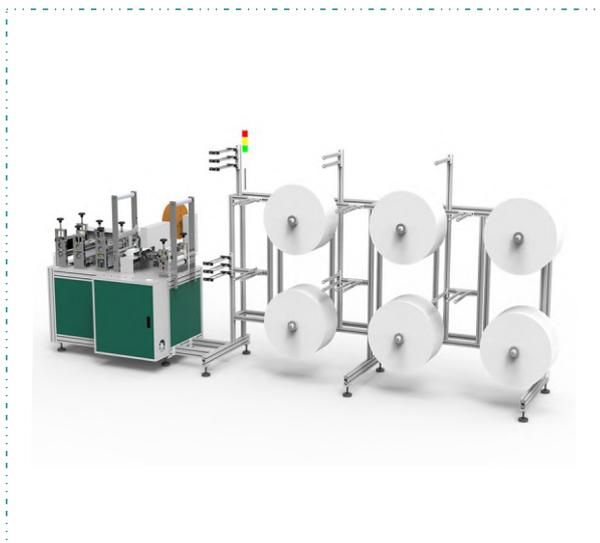
Capacity	15 pcs/min
Dimension in mm	L: 914.4 W: 609.6 H: 1066.8
Weight	50KG
Control Mode	Foot Peddle
Voltage and Frequency	120-220V 50 60HZ



MASTER PRO - N95 | KN95

N95 mask machine is a machine used for the production of N95/KN95 masks. It uses ultrasonic technology to bond 3 to 5 layers of PP nonwoven fabric, activated carbon and filter materials.

Semi-automatic production, easy operation, low error rate, easy for manual maintenance, ear strap welding machine can be added later according to production needs.



SPECIFICATIONS

Production Rate (N95)	37-39 Mask/Min
Mask Dimension	150mm x 100mm; max. 6-layer
Mask Type	FFP3 / FFP2 / N95 / KN95 Face Mask
Power	5 HP 220V/50Hz 5kw
Dimension Of Machine in mm	L:3810; W:1219.2; H:1676.4
Weight Of Overall Machine	500KG
Certificate	CE
Control Mode	Frequency Conversion Control
Required Material	Spunbond - Polypropylene Non-Woven Fabric



ACCESSORY

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AIR COMPRESSOR

Voltage and Frequency	120-220V 50 60HZ
Dimension in mm	L: 1420 W: 520 H: 970
Weight	70KG
Drive Mode	Silent Oil-Free Compressor

Ultrasonic Earloop Welding Machine - 4 Set

Capacity	15 pcs/min
Dimension in mm	L: 1100.4 W: 609.6 H: 1066.8
Weight	50KG
Control Mode	Foot Peddle
Voltage and Frequency	120-220V 50 60HZ

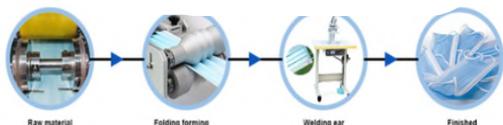
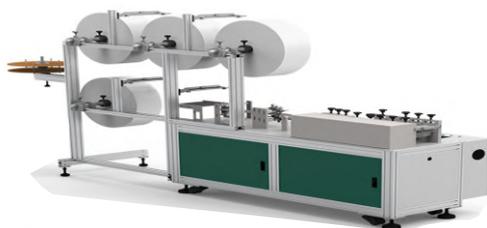
Ultrasonic Mask Edge Welding Machine - 4 Set

Capacity	30 pcs/min
Dimension in mm	L: 1100.4 W: 609.6 H: 1066.8
Weight	70KG
Control Mode	Foot Peddle
Voltage and Frequency	120-220V 50 60HZ



Master Pro 3PLY

SEMI-AUTOMATIC MASK MAKING MACHINE



The mask body machine: Feeder, Rack (Working table and mask rack), Edge sealing, Plaiting, Cutting and Finishing products, Power transmission system, Ultrasonic generator, Ultrasonic transducer, Electrical control.

Connection machine: Mounting plate, Transmission system.

Ear-loop welding machine: Rack(Working table), Power transmission system,

Transmission system, Conveyor belt, Ear-loop welding, Ultrasonic generator, Ultrasonic transducer.

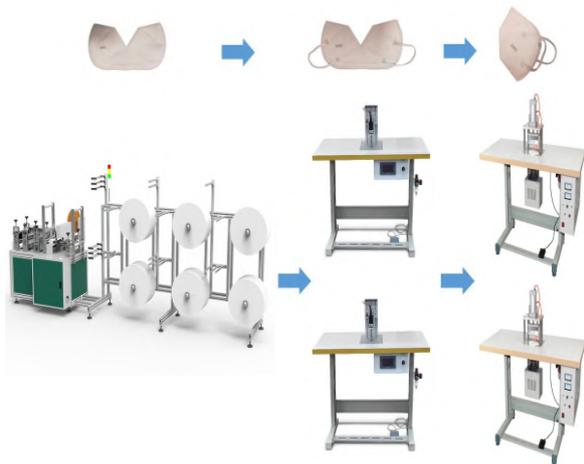
It has a complete set of production capacity of all kinds of precision machinery parts ensure the accuracy and consistency of production machinery parts so as to ensure the stability of the equipment

- Simple structure in linear type ,easy in installation and maintain.
- Adopting advanced world famous brand components in parts, electric parts and operation parts.
- High pressure double crank to control the die opening and closing.

- Automatic calculation can effectively control production efficiency and production progress.
- Frequency conversion control can adjust the operation speed of the equipment according to the actual needs.

- The equipment has a high degree of automation and low requirements for operators.
- Modular and humanized design, convenient maintenance.

Master Pro N95



The new Master Pro N95 semi-automatic machine, from raw material feeding to the completion of the finished product are all one-line automated operation; the maximum production capacity is 39 pieces per minute; the cutter wheel and welding wheel can be easily replaced to produce three-dimensional masks of different sizes and models.

The mask ear straps produced are elastic and non-woven, which makes the wearer's ears comfortable and pressure-free. The filter cloth layer of the mask has a good filtering effect and can be applied to highly polluting industries. Using an electromagnetic stepless speed control system, the production speed can be adjusted arbitrarily, and the mechanical operation is stable and flexible.

N95 semi-automatic mask machine composition introduction

The whole line includes a semi-automatic body machine, four ultrasonic earloop welding machines, and four ultrasonic mask edge welding machines.

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- Adopting advanced world famous brand components in parts, electric parts and operation parts.
- High pressure double crank to control the die opening and closing.

- Automatic calculation can effectively control production efficiency and production progress.
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