Full automatic machine for face mask production

Estun Automation
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Automatic Surgical mask making machine:

1. **Introduction:**
   This mask making machine can realize automation control, which includes automatic nonwoven fabrics unreeling, automatic pleating, slicing, earloop welding and product-sending out processes.
   The finished products are comfortable to wear, perfectly attach onto face without any oppression feeling, suited for medical industry, electronics industry, mining industry, construction industry and catering industry.

2. **Specification:**
   - Net Weight: \( \leq \) 5000KG;
   - Input: AC220V, 50Hz;
   - Power: \( \leq \) 6kw;
   - Air pressure & consumption: 0.5-0.6Mpa, 0.03m³/min;
   - Dimension: L4600mm*W4500mm*H1800mm;
   - Machine capacity: 80-120pcs/min
   - Ear loop welding capacity: 40-60pcs/min

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Automatic Surgical mask making machine:

- Nonwoven Fabrics Unreeling
- Folding/Pleating
- slicing
- Feeding to welding station
- Earloop welding
- Finished product

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Automatic Surgical mask making machine:
Automatic Surgical mask making machine :

3、Advantage :

• This machine implemented by using EtherCAT fieldbus, can realize the high-precision positioning, comparing to conventional PLC products, new Trio solution optimizes the CAM curve, make it easier to use and more efficient in an existing process.

• The solution takes new generation Summa series servo drives, combined with EM3A high responsive servo motor, satisfy high-end requirements.

• Full automatic control, one person can be on duty more than one machine, production efficiency is high.

• Maintenance free，we can provide 7*24 online technical support.
Automatic Surgical mask making machine :

4. Back-end packing process:
   • We can offer packing total solution, to automate the production process with more automation and effectiveness.
   • Six axis mini robot or SCARA robot as option
   • Surgical mask packing unit:
     Pillow packing machine
     Independent package
     Bulk packing
Automatic Folded mask making machine :

1、Introduction:
This mask making machine can realize automation control, which includes automatic nonwoven fabrics unreeling, automatic loading nose clip, elastic (flying shear), earloop welding, fold forming, sealing (flying shear) and printing processes.
The finished products are comfortable to wear, perfectly attach onto face without any oppression feeling, suited for medical industry, electronics industry, mining industry, construction industry and catering industry.

2、Specification:
Electrical Design: TRIO controller + ESTUN servo
Input: AC220V, 50Hz;
Power: ≤ 6kw;
Air pressure & consumption: 0.5-0.6Mpa, 0.03m³/min;
Dimension: L9000mm*W1500mm*H2100mm;
Machine capacity: 65pcs/min
Edge banding accuracy: ±0.5mm
Ear loop welding accuracy: ±1mm
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Automatic Folded mask making machine:

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Automatic Folded mask making machine:

- Non-woven Fabrics
- Nose wiring inserting
- Left ear loop unreeling
- Welding
- Right ear loop unreeling
- Drawing Roller
- Edge Sealing
- Slicing

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Automatic Folded mask making machine:

3. Advantage:
   • This machine implemented by using EtherCAT fieldbus, can realize the high-precision positioning, comparing to conventional PLC products, new Trio solution optimizes the CAM curve, make it easier to use and more efficient in an existing process.
   • The solution takes new generation Summa series servo drives, combined with EM3A high responsive servo motor, satisfy high-end requirements.
   • Standardizing HMI, motion monitoring, flexible for different type of mask production, easy to change any of the relevant configuration parameters.
   • It can provide professional ECUULID vision inspect system, in order to achieve the nose wiring detection, length inspection, welding position inspection and elastic tightness inspection.
   • Full automatic control, one person can be on duty more than one machine, production efficiency is high.
   • Maintenance free, we can provide 7*24 online technical support.

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