

Tender Specification. Production Line for the automated manufacture of medical 3 ply face masks

Date: 11/06/2020



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1. INVITATION TO TENDER

The Contracting Authority for the purpose of this Invitation to Tender is Carbon8 Limited. Their address is 23 Springhouse Lane, Ebchester, Consett, Co Durham, DH8 0QF

2. BACKGROUND

The business has a requirement to manufacture face masks for its customers for medical use.

The purpose of this tender is to purchase An automated machine which can produce a surgical 3 to 4 layer face mask consisting of non-woven and meltblown material with nylon earloops and wire nose clip.

3. SPECIFICATION OF REQUIREMENTS

3.1 Services/Work/Equipment to be provided:

Carbon8 Limited is looking to purchase a Production Line for the automated manufacture of medical 3 ply face masks

Fully Automated disposable outer ear loop flat mask making machine composed of a mask body machine and 2 ear band welding machines and a conveyor to sort the product into 50 piece stacks.

Device Description

1. The external earloop mask making machine should produce disposable flat masks. The mask produced by the machine can be used as a surgical mask.
2. Ordinary medical masks: mainly composed of three layers of non-woven fabrics. The inner layer is a normal non-woven fabric; the outer layer is a non-woven fabric with a waterproof treatment, which is mainly used to isolate the liquid sprayed by the patient. The middle filter layer is polypropylene meltblown non-woven fabric treated with electret. After final production, they are sterilized and analyzed with ethylene oxide, packaged and shipped away.

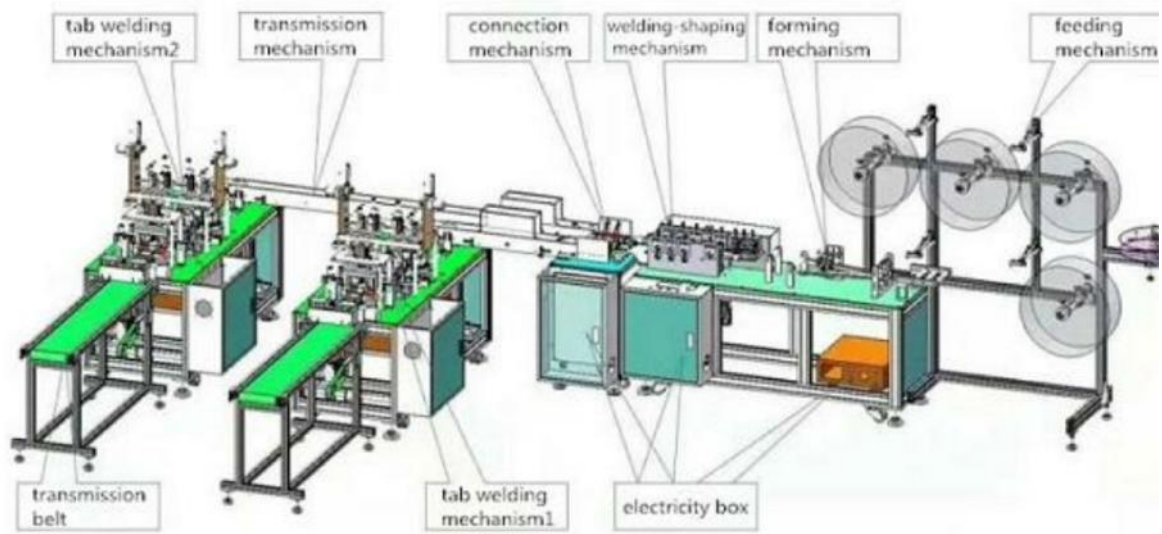
Technical Parameter Requirements

1. The machine's connection should have 1-2 machines.
Size Example: 6500 (L) × 3500 (W) × 1950 (H) mm. Voltage: 240VAC ± 5% 50HZ Rated power: ≤10KW (including welding machine)
Weight: 2000kg
2. Output: 100-120 per minute.
3. High stability, low failure rate.
4. PLC programming control, servo drive, high degree of automation.

5. Photoelectric (optical fibre) detection of raw materials to avoid errors and reduce waste. Work Process This machine should be fully automatic the main process:

1. Includes automatic delivery of raw materials.
2. Automatic conveying.
- 3 Automatic Stacking.

An example of similar production line is as follows.



3.2 Timescales

Tender placed on website – 11/06/2020
Tender deadline – noon 29/06/2020
Review bids – 29/06/2020
Appoint preferred supplier/Place order – 30/06/2020
Equipment Delivered 30/07/2020
Installation Complete – 03/08/2020

4. PROJECT TEAM

John Murphy
Tel: 07976 953041.
Email: john@carbon8ltd.com

5. QUALITY ASSURANCE

Carbon8 Limited would like to invite tenders from companies, which have knowledge and experience of supply and installation of Fully Automated Mask making machine production line.

6. TENDER SUBMISSIONS

Tenders will be evaluated against the award criteria as set out within Section 7 and tenderers should also demonstrate within their tender proposal the following assurance that they have:-

- Capability to meet the contract requirements;
- Quality and experience of the individual(s) delivering the contract; including evidence of a proven track record;
- Value for money and added value

7. AWARD CRITERIA

The contract will be awarded to the most economically advantageous tender evaluated against the following criteria.

Criteria	Weighting %
Timescale and delivery	20
Quality of product	40
Pricing of the tender	20
Product production capability >100 pieces per minute	20

8. QUERIES

To ensure a fair and transparent tender process no approach of any kind in connection with this tender should be made to any other person within, or associated with Carbon8 Limited Failure to comply may result in disqualification from the process.

9. TENDER RETURN

John Murphy
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Submissions can also be made by email to: john@carbon8ltd.com

Closing date for all tenders is noon on 29/06/2020

This project is supported by the European Regional Development Fund as part of the European Structural and Investment Funds Growth Programme 2014-2020.