MEDICAL CONTRACT MANUFACTURING

Clean Room Injection Molding, Assembly & Injection Tool Shop
<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 3</td>
<td>VEM group introduction</td>
</tr>
<tr>
<td>4</td>
<td>ISO Certificates</td>
</tr>
<tr>
<td>5 - 7</td>
<td>Engineering &amp; Prototyping</td>
</tr>
<tr>
<td>8 - 11</td>
<td>Mold manufacturing</td>
</tr>
<tr>
<td>12</td>
<td>Injection Molding</td>
</tr>
<tr>
<td>13 - 16</td>
<td>Clean room &amp; Assembly</td>
</tr>
<tr>
<td>17</td>
<td>PCBA Services</td>
</tr>
<tr>
<td>18 - 19</td>
<td>Process validation and control</td>
</tr>
<tr>
<td>20</td>
<td>Logistics support</td>
</tr>
<tr>
<td>21</td>
<td>Customers</td>
</tr>
<tr>
<td>22</td>
<td>Product examples</td>
</tr>
</tbody>
</table>
Global presence in 5 countries and 3 continents

Strong customer base in Medical Industries

Trusted partner in the journey from conceptualizing product, mold making and injection molding to assembly
20+ Years of experience

Team of highly experienced Managers and Experts in the field

Manufactured over 8000 molds

High tech tool shops

Contract tool-shops for warranty and modifications
1998
Start
Company registered in Hong-Kong as VEM – Virtual Electronics Manufacturing Ltd

2003
VEM China
Set up 100% owned factory in Shenzhen, China, 5000sqm

2008
VEM Thailand
Set up 100% owned factory in Rayong, Thailand, 3000sqm

2008

2008

2008

2019
VEM Europe
Set up 100% owned factory in Plovdiv, Bulgaria, 2000sqm

2019

2019

2019

2020

2020

2020

2022
VEM Thailand
Added another 5000sqm factory in Rayong, Thailand.

2022

2022

2022

VEM Mexico
Set up 100% owned factory in Queretaro, Mexico, 2 facilities with total of 3000sqm
Certificate of Registration


This is to certify that:
VEM (THAILAND) CO., LTD
427 Prat. 2 Nongpipoom,
Praekspeang,
Bangkapi
Bangkok
2140
Thailand

Holds Certificate Number: MD 603191
and operates a Quality Management System which complies with the requirements of ISO 13485:2016 & EN ISO 13485:2016 for the following scope:

The manufacture of plastic injection parts and assemblies for medical ventilator systems.

Gary G Black
Senior Vice President - Medical Devices

Original Registration Date: 2019-01-08
Latest Revision Date: 2022-12-08
Effective Date: 2022-01-08
Expiry Date: 2025-01-08

Page: 1 of 1

...making excellence a habit.

CERTIFICATES

ISO 13485

ISO 7 / Class 10,000

ISO 8 / Class 100,000
• Help sourcing ROHS/ REACH/ USP class VI compliant materials
• Biocompatibility and Cytotoxicity testing certificate of raw materials is ensured wherever required
• FMEA and FDM to identify and eliminate potential problems in manufacturing
• Support 3D printed prototypes
Validate the product and manufacturing capabilities
Quick and efficient prototyping technologies:

• Soft steel prototype molds
• Aluminum prototype molds
• 3D printed prototypes (Steel and Plastic)
Printing plastic prototypes for validation & functional testing.

- PLA
- ABS
- PETG
- Nylon
- TPU and TPE
Expertise in:

2K Molds, Multi cavity molds, High precision molds
Mold Maintenance:
Internal maintenance & modification capabilities
3D Steel Printing

- Mold steel inserts
- Optimized conformal cooling channels
- Significant reduction in production cycle time
In house toolmaking facilities in China/India/Bulgaria

China: https://youtu.be/57rX3deD1AQ
India: https://youtu.be/cHnLGGuvFls
Bulgaria: https://youtu.be/LnDZgdxzbo-A
30+ Injection molding machines
Machine range 5 TON to 850 TON
Fully equipped with desiccant dryers, HR controllers, MTC, Bimetallic barrel
Clean Room ISO 7 Molding
Clean Room ISO 8 Molding
Clean Room ISO 7 & 8 Assembly
Assembly Example
Ventilator Connector

Injection Molding
↓
Over Molding
↓
Assembly
↓
Testing
↓
Final Packaging
We provide PCBA related services:

- PCBA production
- Box built products, manual assembly
- ICT/FCT testing and IC programming
- Tester building and maintenance
Process qualification as per medical standards

- Installation Qualification
- Operation Qualification – using DOE
- Performance Qualification
Fully equipped measurement laboratory
SPC online wherever needed
Inspections 24 hours
We ship all over the world
INCOE Terms as required by customers