Beyonics
Precision. Driven.



Beyonics Headquarters, Singapore

Beyonics is headquartered in Singapore and provides Advanced Precision Engineering and Manufacturing Solutions for the MedTech, Mobility, and SmartTech sectors, with vertically integrated capabilities in tool design & fabrication, plastic injection molding, product assembly, and associated value-adding services. Our customers rely on Beyonics to provide comprehensive solutions for mission-critical, zero-defect products and applications.





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Manufacturing Capabilities & Services

Tool Design & Fabrication

- Fully integrated 3D software for: Siemens NX, Autodesk Moldflow, Solid Works – 2020, Magma
- High cavitation molds up to 64 cavities
- Molds with complex multiple axial movement (5 Axis)
- Vertical injection molding
- Hot molds for high-performance engineering plastics
- Sequential molding
- Optimized cooling design with conformal cooling
- Insert molding / Over molding
- Unscrew molds
- Aluminum die casting tools

Plastics Injection Molding

- Machine range from 15 tons to 550 tons
- 2K molding/Over-mold/Insert molding (vertical and horizontal)
- Automated insert molded assembly by using scara robot/ 6 axis robot
- Plastic machining
- Fully automated assembly process which include pick and place, glue dispensing, vision inspection, tray loading & unloading
- 100% automated vision inspection

Clean Room Molding

- Class 8, 100K cleanroom molding & assembly
- Machine range from 50 tons to 550 tons
- FDA certified manufacturing site
- Fast cycle injection molding upto 6 sec/cycle
- High-speed automated medical assembly with integrated vision inspection and functional testing. Designed output of 120 units per minute.

2K Molding - Advanced Dual-Material Capabilities (500-Ton)

- Rotary Table Configuration: Features a moving platen with a rotary table and a V-shaped dual barrel
- Transfer Mold Configuration: Utilizes a fixed platen with a transfer mold and a parallel dual barrel
- Conformal cooling for reduced cycle times
- Combines two materials or colors—soft and hard plastics—with high precision and a strong bond to enhance product functionality and durability

Controlled Environment Molding

- Machine range from 15 tons to 450 tons
- Machine type range from fully electric, hybrid & hydraulic machine.
- Fully automated molding & inspection process
- High speed injection up to 500mm/s
- Thin wall molding up to 0.2mm

Clean Room Facilities

- Manufacture Class 3 medical devices
- Bioburden control environment
- Capability of reagent filling
- Medical parts assembly

Box Build Assembly

- Vertical integrated solution for customer, from mold making, molding upto box build level

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Manufacturing Capabilities & Services

Micro Molding

- Design, fabrication, and molding of extremely small, intricate components
- Capable of handling part weights in the milligram range while maintaining micro-level tolerances
- Micro two-component (2K) molding in a single cycle
- Ideally suited for prototypes, sample parts, and small-batch production

Design & Engineering Services

- Early design review for sustainable manufacturing
- Real-time, collaborative CAD-based design improvement
- Comprehensive DFM (Design for Manufacturability) and VAVE (Value Analysis/Value Engineering) support
- Prototyping, testing, and validation to optimize for molding and assembly
- Full product validation before mass production

R&D Lab

- Stratasys Objek 30 Prime 3D Printer
- Roland MDX 540 Precision Desktop CNC
- Working tool box

Inspection

- 5 Axis CMM
- Spectrometer
- Roughness surface test - surface 1500DX
- Melt flow index machine
- Impact tester
- Smartscope

Industries


Healthcare & MedTech


Smart Technology


Industrial Automation

Certifications

- ISO 9001: 2015
- ISO 13485: 2016
- ISO 14001: 2015
- ISO/IEC 27001: 2022
- FDA Certified Reg No: 3003080184

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