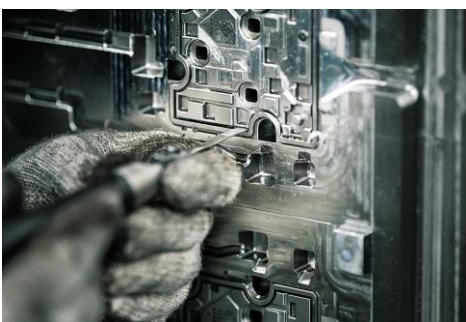




## Beyonics Changshu Campus, China

Beyonics Changshu in Jiangsu Province China specializes in precision engineered components, aluminium die casting, tool design and fabrication and plastic injection molding, and electronics solutions. It is located in Changshu New & Hi-tech Industrial Development Zone, Changshu is the center of the Yangtze River Delta, close to Shanghai.

As a strategic and integrated manufacturer, focusing on customers in the Automotive, Healthcare and Technology industries. Beyonics Changshu delivers a variety of precision units, customized interconnect solutions, and electronics assembly services to Tier 1 automotive parts manufacturers around the world.



## Manufacturing Capabilities & Services

### Tool Design & Fabrication

- High pressure AL. die-casting & plastic injection tool design & manufacture
- MAGMA moldflow simulation/ UG Solutions/ SolidWorks/ AutoCAD
- Mold-Flow analysis with design optimization for injection molding
- Casting thickness wall at 0.5mm (0.020"), tolerance +/- 0.125mm (0.005")
- Machining tolerance +/- 0.01mm (0.0004"), hole Dia. tolerance +/- 0.005mm (0.0002")
- EDM Machines
- CNC Machines, CNC Wire Cut
- Auto CAD Workstation

### Aluminum Die Casting

- Centralized smelting furnaces with (Capacity: Approx. 3 Ton/Hour)
- Die casting machines (125 to 850 tons)
- Automated 6-axis robotic deburring process
- Precision CNC machining
- Ultrasonic aqueous cleaning lines

### Plastics Injection Molding

- Plastics injection machines (30 to 1,600 tons)
- Over-mold/Insert molding (vertical and horizontal)
- Single & Multi cavity hot runner molding

### Printed Circuit Board Assembly (PCBA)

- SMT high speed lines- capable of 0201, 01005 BGA, CSP, LGA & Micro BGA
- COB complete process (chip mounting, wire bonding, baking process)
- Products configured for ROHS without cleaning process
- Cleanroom environment (10K)
- Selective automated soldering
- Conformal coating
- Solder paste inspection
- X-Ray inspection
- ICT & functional test
- 2D AOI inspection

### Product Build

- Box build assembly line
- Ultrasonic welding
- Manual assembly
- Traceability system
- Cosmetic & labelling CCD inspection
- Laser etching
- Silk screen printing

### Lab

- X-ray CT scan (GE Phoenix V)
- Cleanliness Test- LPC (liquid particle counter)
- Leica filtration equipment (50u~200u)
- FT-IR (Fourier transform infra-Red)
- ROHS Tester – SEA 1000A
- Water drop contact angle optical meter

## Manufacturing Capabilities & Services

### Engineering Services

- Early design improvements and reviews for sustainable manufacturing
- Full DFM (Design for Manufacturability) review support and VAVE (Value Analysis/Value Engineering)

### Testing and Inspection

- CMM machines (Brown & Sharpe, Mitutoyo, and Hexagon)
- Air leak testing (air pressure and helium gas type)
- Spectrometer
- Visual CCD Inspection
- Melt flow index meter
- OGP smart scope
- Surface roughness tester
- Moisture analyzer
- Bonding test & Pull test

## Industries



Automotive



Technology



Healthcare & Medical



Communication

## Certifications

- ISO 9001 : 2015
- ISO 13485 : 2016
- ISO 14001 : 2015
- IATF 16949 : 2016
- ISO45001:2018
- Compliance to VDA6.3 Requirement

## Beyonics Changshu Campus

18 Yinhuan Road, Changshu New & Hi-tech Industrial Development Zone of Jiangsu, Changshu, Jiangshu 215500, China  
Tel. +86 512-5235-1155

Beyonics is headquartered in Singapore and provides Advanced Precision Engineering and Manufacturing Solutions for the Healthcare, Automotive and Technology sectors. Our in-house capabilities, ranging from engineering and design (material & process), tooling, automation, complex and precision components manufacturing (plastics & metals), to end product assembly, enable Beyonics to provide a full suite of services to meet customers' high value and complex manufacturing needs with extensive automation and zero defect test solutions.

