

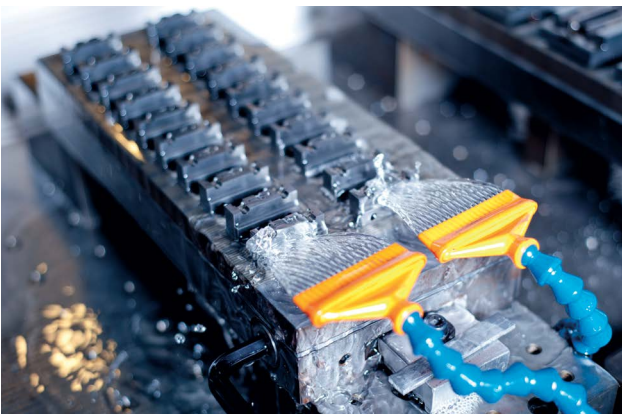
## Plastic services

Tool design and fabrication, plastic injection molding, box building and system assembly

The Cicor Group designs and manufactures high-quality, precision plastic injection molding and offers plastic injection molding with vertically integrated secondary processes and assembly services. Cicor offers services ranging from the idea to tool design and fabrication to serial production. The engineers work hand in hand with the production department. Through this cooperation there is an intensive exchange of know-how and technology.

Cicor provides its customers fast, efficient and cost-effective solutions in the areas of tool design and fabrication as well as plastic injection molding.

The Cicor Group has ISO class 7 clean rooms for injection molding, assembly and packaging. The clean rooms are validated for RTU (ready-to-use) medical applications.





## Portfolio

### Tool design and fabrication

- Fully integrated 3D software for mold design, CNC programming to steel cutting
- Advanced CAD/CAM software: Unigraphics and Pro-E, AutoCAD
- Quick electrode software
- Moldflow Adviser software to optimize part and mold design
- High-quality brand machines
- CNC EDM (Electric discharge machine), CNC high speed milling, wire-cut and grinding
- High-precision mold with cold, semi hot and fully hot runner system
- Multi-cavitation design and tooling up to 64 cavities
- Precision gears and unscrew mold
- Critical steel dimension control at 0.005 mm
- Tool life warranties (fully harden) up to 1'000'000 shot cycles

### Plastic injection molding

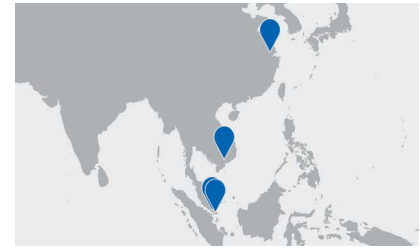
- Horizontal molding machines from 20 tons to 468 tons
- High-precision micro molding of 2 mm diameter with microstructure
- Thin-wall molding up to 0.4 mm thickness
- 2K injection molding
- Vertical insert molding
- Material feeding system with dehumidifier dryer
- Servo robot arm with visual camera system
- Automated part placement onto tray system
- Prototype, engineering sample to mass production
- Clean room molding (ISO class 7)

### Box building and system assembly

- Control room and clean room assembly (ISO class 7)
- Precision and miniature assembly
- Assembly
- Vibration welding
- Ultrasonic welding
- Seal packaging
- Spot welding
- Coil winding
- Pad/tampon print (normal and rotary)
- Silkscreen printing
- Fully automated spray paint line
- Product reliability test (humidity/temperature/packaging and salt spray test)

## Markets

-  Industrial
-  Medical
-  Watches and consumer
-  Automotive and transport
-  Communication



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The Cicor Group is a globally active development and manufacturing partner with innovative technology solutions for the electronics industry. With about 2000 employees at ten production sites, Cicor offers highly complex printed circuit boards and hybrid circuits as well as comprehensive electronic manufacturing services (EMS) including microelectronic assembly and plastic injection molding.

Cicor supplies customized products and services from design to the finished product from one source.



**cicor.com**