



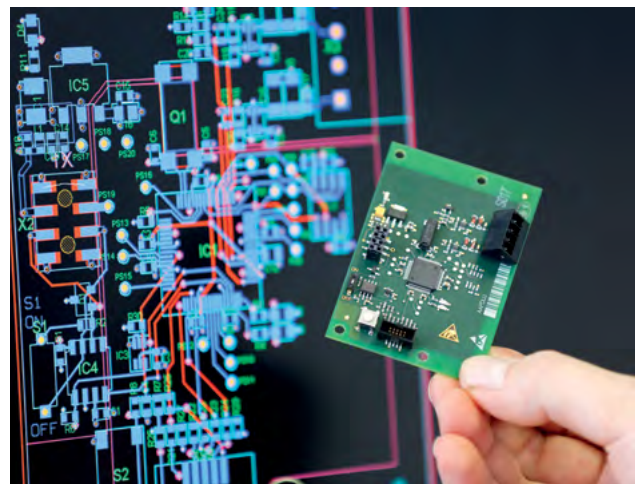
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## Bronschhofen, Switzerland

Engineering- and production site for electronic manufacturing services

The Cicor location in Bronschhofen (Swisstronics Contract Manufacturing AG) offers complete outsourcing solutions for the development and production of electronic assemblies as well as complete devices and systems. Cicor develops and produces small and medium sized series of electronic assemblies and systems using state-of-the-art equipment at its Bronschhofen site.

The location has extensive expertise in medical technology. In the newly created, protected assembly area of ISO class 8, medical devices with increased demands on the assembly environment are manufactured. The EMS site in Bronschhofen has a diverse customer portfolio from the medical, industrial, consumer, defence and transport markets.





## Competencies and services

### Engineering

- HW-/SW development
- PCB design
- Mechanics
- Project management
- Product safety
  - IEC 60601 and IEC 61010

### SMT production

- Fully automatic in-line printer incl. solder paste inspection
- Print image size min. 70×60 mm, max. 600×450 mm
- Finepitch assembly up to 0.3 mm pitch (in serial production)
- µBGA up to 0.35 mm pitch
- Chip from 01005 (0.4×0.2 mm)
- Flexprint assembly
- THR component assembly (Through-hole-reflow-technology)
- 10 SMD assembly machines
- 4 nitrogen full convection reflow systems (SMT)
- Individual soldering profile
- Max. reflow soldering width reflow soldering width of 460 mm

### THT production

- Automatic cutting, bending, crimping
- Manual assembly stations
- Wave soldering
  - 1 nitrogen wave soldering system
  - Max. size from 440×390 mm
  - Different, subsequent soldering programs controlled via barcode
- Selective wave soldering
  - 1 dual port selective soldering system
  - PCB sizes from min. 95×95 mm and max. 400×500 mm
  - Seamless process monitoring

### Rework

- SMD- and BGA rework stations
- Depaneling

### Test

- Development of product-specific test concepts
- In-circuit, flying probe and functional test
- Frame scan and boundary scan implementation
- Development and set up of product-specific test systems
- High-voltage, run-in and burn-in tests, temperature cabinet

### Optical inspection

- Inline-AOI-systems
- Initial sample testing with EFA inspection system
- X-ray

### Coating/potting

- Inline spray coating
- Serial potting with PU, silicone
- UV adhesive bonding
- Hotmelt potting

### Box building and system assembly

- Product-specific assembly workplace
- Functional testing
- Configurations management
- Clean room assembly

### Traceability

- Individual assembly barcode (laser/label)
- On board and production order level
  - Component batches
  - Work and test procedures
  - Test results and verifications

## Markets



Industrial



Medical



Aerospace and defence



Watches and consumer



Automotive and transport



Communication

## Certifications

- ISO 9001 Quality
- ISO 13485 Medical
- ISO 14001 Environment
- ISO 15378 Primary packaging materials for medicinal products
- IPC A-610D class II und III
- IPC 7711/21
- UL-registered
- FDA registered 21CFR820
- MFi (Made for iPhone/iPod/iPad)



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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 2100 employees at ten production sites, Cicor offers highly complex printed circuit boards, printed electronics, hybrid circuits and substrates 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