



Micro Systems Technologies
engineering for life

Semiconductor Technology

- ASIC design & test
- Foundry management
- Packaging & test

Semiconductor Technology

One of MST's core competencies lies in the development of implantable medical devices including electronic module design, IC design and test as well as semiconductor packaging.

Micro Systems Engineering, Inc, an MST company located in Lake Oswego, USA, offers services in the development of active implants, including ASIC development and test, as well as foundry management.

Micro Systems Engineering GmbH, an MST company located in Berg, Germany has solid and proven expertise in applying all major semiconductor packaging technologies.

ASIC DESIGN

- Ultra low power
- High voltage
- Mixed signal
- Digital / Memory / RF
- Sensors

ASIC TEST & RELIABILITY

- Automatic wafer probe with temperature testing
- AOI on wafer
- Memory, digital and mixed mode test
- BGA, CSP and bare wafer test and handling
- Failure analysis
- Medical grade reliability assurance
- ASIC yield management

FOUNDRY MANAGEMENT

- Various strategic partners
- Proven advanced foundry technologies
- Rapid development process
- Complete turn key service

SEMICONDUCTOR PACKAGING

MATERIALS

- LTCC
- Al₂O₃
- PCB

I/O-CONFIGURATIONS

- Ball Grid Array
- Land Grid Array
- Castellated
- SIL / DIL
- QFP

HOUSING

- Non-hermetic (plastic/metal cover organic coating)
- Hermetic (soldering)

QUALITY

The quality system of the MST group derives from the stringent requirements of life sustaining implants and assures 100% traceability of processes and materials.

MICRO SYSTEMS TECHNOLOGIES

Micro Systems Technologies Group (MST) comprises five technology companies providing innovative products and services for medical devices, especially implants, and other high-reliability/high-performance industries. The offering includes HDI/microvia PCBs, ceramic substrates, electronic module design and manufacturing, batteries and hermetic feedthroughs for medical implants, as well as catheter technology.

The MST Companies:

DYCONEX AG
LITRONIK Batterietechnologie GmbH
Micro Systems Engineering GmbH
Micro Systems Engineering, Inc.
VascoMed GmbH



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