B Product categories COMPAMED 2027

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1 Manufacturing, Lifecycle & Obsolescence Management

1.1 CDMO (Contract Development and Manufacturing Organization)
1.1.1 General Product Development, Development & Design Transfer
1.1.2 Prototyping
1.1.3 Components (MedTech, Manufacturing, etc.)
1.1.4 MedTech (Class I–III)
1.1.5 Software as a Medical Device (SaMD)
1.1.6 In Vitro Diagnostics (IVD)
1.1.7 Drug-Device- & Combination Products
1.1.8 Other Biotechnologies

1.2 Manufacturing Types
1.2.1 Pre-Serial Manufacturing
1.2.2 Serial & Mass Production, Variant Production
1.2.3 Additive Manufacturing
1.2.3.1 Additively Manufactured Components
1.2.3.2 Rapid Prototyping
1.2.3.3 Series-Ready Additive Components
1.2.4 Cleanroom Manufacturing
1.2.5 Finished Device Manufacturing
1.2.6 White-Label & Private-Label Manufacturing
1.2.7 Nanomanufacturing

1.3 Manufacturing Technologies & Automation
1.3.1 Injection Molding Machines
1.3.2 Extrusion Systems
1.3.3 Assembly & Testing Systems
1.3.4 Robotics & Collaborative Robotics
1.3.5 Vision & Inspection Systems
1.3.6 Cleanroom Technology
1.3.7 Sterilization Services and Packaging
1.3.7.1 Ethylene Oxide (EtO) Sterilization
1.3.7.2 Gamma Sterilization
1.3.7.3 Steam Sterilization
1.3.7.4 Packaging Systems
1.3.7.5 Packaging Materials
1.3.7.6 Packaging Technologies
1.3.7.7 Packaging Machinery
1.3.8 Electronics Manufacturing Services (EMS)
1.3.8.1 Assemblies
1.3.8.2 Devices

1.4 Supply Chain Management
1.4.1 Manufacturing Resilience
1.4.2 Supply Chains, Dual Sourcing & Nearshoring
1.4.3 Supplier Management

2 Components, Modules & Systems

2.1 Electronics, Electrical Engineering & Sensor Technology
2.1.1 Development-Oriented
2.1.1.1 Electronics & Sensor Design
2.1.1.2 Electronics & Sensor Development
2.1.1.3 Electronics & Sensor Manufacturing
2.1.1.4 Electronics & Sensor Assembly
2.1.1.5 Electronics & Sensor Testing
2.1.1.6 Electronics & Sensor Calibration
2.1.2 Component-Oriented: Electronics
2.1.2.1 Custom Electronic Components
2.1.2.2 Cables & Cable Harness Assembly
2.1.2.3 Printed Circuit Boards (PCBs) & Integrated Circuits
2.1.2.4 Analog Electronics
2.1.2.5 Digital Electronics
2.1.2.6 High-Frequency Technology (RF, Shielding)
2.1.2.7 Microelectronics & Nanoelectronics
2.1.2.8 Full-Service Electronics
2.1.2.9 Power Supply, Energy Storage & Power Distribution (incl. UPS)
2.1.2.10 Embedded Systems
2.1.2.11 Laboratory Electronics
2.1.3 Component-Oriented: Sensor Technology
2.1.3.1 Biosensors
2.1.3.2 Pressure, Flow, Temperature, Motion, Position, Particle & Gas Sensors (Manufacturing & Monitoring)
2.1.3.3 Image Sensors
2.1.3.4 Optical Sensors
2.1.3.5 Quantum Sensing
2.1.3.6 Computer Vision
2.1.3.7 Laboratory Sensors

2.2 Mechanics & Mechatronics
2.2.1 Precision Metal Parts
2.2.2 Plastic Components
2.2.3 Tools & Molds
2.2.4 Micromechanics & Microsystems Engineering
2.2.5 Nanomechanics
2.2.6 Optomechanics
2.2.7 Adaptronics
2.2.8 Electromechanics
2.2.9 Precision Engineering
2.2.10 Control Engineering
2.2.11 Biomechatronics

2.3 Tubing Systems, Catheters & Wire Technology
2.3.1 Catheter Systems
2.3.2 Guidewires
2.3.3 Single-Use Fluid Paths

2.4 Microfluidics
2.4.1 Digital (Droplet-Based) Microfluidics
2.4.2 Microfluidic Channels & Chambers
2.4.3 X-on-a-Chip
2.4.4 MEMS / MOEMS

2.5 Semiconductors

2.6 Superconductors

2.7 Magnetics

2.8 Valves & Actuators

2.9 Connectors
2.9.1 Metal
2.9.2 Plastics
2.9.3 Electronics
2.9.4 Other

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2.10	Optics & Photonics
2.10.1	Lenses & Optical Components
2.10.2	Light Sources
2.10.3	MOEMS
2.10.4	Laser Components
2.10.5	Imaging Modules
2.10.6	Laser Processing
2.10.7	Surface Treatment
2.10.8	End-of-Line Test Systems
2.10.9	Measurement, Testing & Calibration Technology
2.11	Coatings
2.11.1	Metal Coatings
2.11.2	Alloys
2.11.3	Plastics
2.11.4	Biological & Biocompatible Coatings
2.11.5	Functional Coatings (e.g. Antimicrobial)
2.11.6	Other Organic Coatings
2.12	Calibration & Metrology Services

3 Materials, Chemicals & Surface Technologies

3.1	Medical-Grade Plastics
3.2	Glass & Bioglass
3.3	Elastomers & Silicones
3.4	Metals & Alloys
3.5	Ceramics & Composite Materials
3.6	Adhesives & Joining Technologies
3.7	Films & Foils
3.8	Bio-Based & Sustainable Materials
3.9	Recycling & Circular Materials
3.10	Materials for Energy- & Resource-Efficient Manufacturing

4 Compliance, Quality, Regulation & Market Access

4.1	Quality Management
4.1.1	Quality Assurance
4.1.2	Quality Management Systems & Electronic QMS
4.2	Risk Management
4.3	Consulting
4.3.1	Regulatory Consulting
4.3.2	Legal Consulting
4.3.3	Other Consulting
4.4	Regulatory Affairs
4.5	Audit Management
4.5.1	Audits
4.5.2	Supplier Qualification
4.6	Notified Bodies
4.7	Authorized Representative (EU)
4.8	Regulatory Intelligence
4.8.1	MDR / IVDR / FDA Consulting
4.8.2	KIVO
4.8.3	Quantum Act
4.9	Segmentation by Regulatory Stage
4.9.1	Concept Development & Patent Strategy
4.9.2	Medical Device Classification
4.9.3	Product Development (Consulting & Regulatory Consulting)
4.9.4	Preclinical Development & Studies
4.9.5	Clinical Development, Studies, Clinical Evaluation & Clinical Affairs
4.9.6	Conformity Assessment & Certification
4.9.7	Post-Market Surveillance (EU Market)
4.9.8	International & Global Regulatory Strategy
4.10	Testing
4.10.1	Biocompatibility Testing
4.10.2	Material & Mechanical Testing
4.10.3	Electrical Safety Testing
4.10.4	Software Validation
4.11	Usability Engineering (IEC 62366)
4.12	Labeling (UDI) & IFU
4.13	Product Transportation

5 Software, Digitalization, Cybersecurity & Future Technologies

5.1	System Integration & Interoperability
5.1.1	Software Development Kits (SDK)
5.1.2	Interfaces
5.1.3	Middleware
5.2	MES & MOM Systems
5.3	Internet of Things (IoT)
5.4	ERP Systems (MedTech Manufacturing)
5.5	Traceability & UDI Software
5.6	Analytics & Artificial Intelligence in Manufacturing
5.6.1	Computer Vision
5.6.2	Automation
5.6.3	Digital Twins
5.6.4	Predictive Maintenance
5.6.5	Data Stream Analytics & Sensor Analytics

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5.7	**Cybersecurity**
5.7.1	for Medical Devices
5.7.2	for Manufacturing Equipment
5.7.3	for Electronic Systems
5.7.4	for Quantum Systems
5.7.5	Enabled by Quantum Technologies
5.8	**Supply Chain Optimization & Production Control**
5.8.1	Transparency & Risk Management of Global Supply Chains
5.8.2	IPC Standards
5.8.3	Agile & Flexible Supply Chains
5.9	**Communication Modules (e.g. Bluetooth, WLAN, 5G)**
5.10	**Quantum Technology**
5.11	**Robotics**
5.12	**Agile Manufacturing**
5.13	**3D Printers**