



The leading European testing laboratory for cardiovascular medical devices

From Standard to Individual

Tailoring the best testing for your application!
We cover almost all cardiovascular devices where fluid interaction is vital:

Heart Valve Testing:

- All 4 Valve Positions
- Accelerated Wear Testing
- Complete Hydrodynamic Testing
- In-vitro and Numerical Flow Field Analysis
- Calcification Testing

Oxygenator Testing:

- Oxygen Transfer Rates
- Carbon Dioxide Transfer Rates
- Blood Cell Damage
- Heat Exchanger Performance

Blood Pump Testing:

- Blood Cell Damage
- Thrombogenic Potential
- Performance Characterization

Stent Testing:

- Radial Resistive Force Testing
- Chronic Outward Force Testing

Cannula Testing:

- Blood Cell Damage
- Recirculation

Individual Testing:

- New Methods
- New Devices
- New Mock Loops

The Tests

Heart Valve Testing according to ISO 5840

- Hydrodynamics and Reliability
- Accelerated Wear
- Pulsatile Flow
- Steady Flow
- PIV
- High Speed Video
- Calcification
- ISO & FDA

Oxygenator Testing according to ISO 7199 and FDA guidance

- Blood Cell Damage
- Gas Exchange Performance
- Pressure Drop
- Tubing Tests
- Operational Qualification

Blood Pump Testing according to ASTM F 1841, ISO 18242, ISO 14708-5

- Blood Cell Damage
- Gas Exchange Performance
- Pressure Drop
- Tubing Tests
- Operational Qualification

Testing for life!



Individual Testing Applications

- Individual Test Setups
- New Mock-Loops
- National Standards
- Validation of Computational Simulations ASME V&V 40
- ISO Certified

Projects

- Feasibility Studies for R&D Projects
- Complete Approval Studies for Submission to Regulatory Agencies, e.g. FDA
- Qualification and Verification of different Models and Geometries
- Individual Tests according to Customer Requests
- Comparative Benchmark Tests

Evaluation & Documentation

- Standard Protocol and Report ready for Regulatory Approval Submission
- Complete Documentation corresponding to Regulatory Requirements
- Protocol according to Customer Specifications
- Documentation including High Speed Video if needed
- Scientific Assessment of Results

Learn more about our network:

Scan the QR code to discover our services



Stent Testing according to

ASTM F 3067, ISO 25539

- Chronic Outward Force
- Radial Resistive Load

Cannula Testing according to ISO 18193

- Integrity
- Connectors
- Kink Resistance
- Pull Strength
- Pressure Drop
- Collapse Resistance
- Recirculation
- Blood Cell Damage

Your journey with us!



Testing Services

Biocompatibility & Toxicology • Cleaning & Reprocessing Validations
Chemical & Physical Analysis • Distribution & Package Integrity
Performance Testing • Human Factors & Usability • Microbiology &
Sterility Mechanical & Functionality • Viral Safety

Flexible Services Models

Fee For Service (FFS)
Full-Time-Equivalent (FTE)
PSS Insourcing Solutions®

Contact Us

North America: Medical-Device@MDS.EurofinsUS.com
Europe: Medical-Device@MDS.EurofinsEU.com
APAC: Medical-Device-Asia@EurofinsAsia.com
www.Eurofins.com/Medical-Device