About Us

Mathias Synergy Solutions (MSS) is a full life-cycle partner supporting the medical device industry from concept through to commercialisation. We connect innovative technologies, trusted partners, and engineering expertise to help our customers bring high-quality products to market efficiently.

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OUR WEBSITE
WWW.MSS-GLOBAL.COM

MSS
INNOVATE • ELEVATE • THRIVE

CEO Bryan Mathias

Our approach is built around three key stages:

Innovate – Supporting early-stage development and R&D
Elevate – Enhancing processes, materials, and manufacturing capabilities
Thrive – Scaling production and ensuring long-term success

We work closely with a global network of partners to deliver tailored solutions across design, development, manufacturing, and inspection.

www.mss-global.com

We are proud to be your full-life cycle partner - supporting innovation from early R&D through scalable manufacturing solutions

Innovate Elevate Thrive

Principles & Values

Integrity – We build trust through transparency and reliability
Collaboration – Strong partnerships drive better outcomes
Innovation – We continuously seek smarter, more efficient solutions
Quality Focus – We align with the highest medical device standards
Customer-Centric Approach – Every solution is tailored to your needs

Overview of Products & Services

MSS provides a comprehensive portfolio of products and services across the full product lifecycle:

- Research & Development Support
- Materials & Process Selection
- Extrusion & Catheter Technologies
- Automation & Manufacturing Equipment
- Inspection & Quality Control Systems
- Contract Manufacturing & Assembly
- Process Optimisation & Consultancy

Each solution is supported by our trusted partners and tailored to your specific application.

Our Partners & Solutions

Each of our partners brings specialist expertise to support your project at every stage.

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PROTOMED
WE DELIVER

PROTOMED CONTRACT R&D EXCELLENCE

Protomed specialises in the design and development of minimally invasive medical devices, supporting companies from early concept through to validated design.

KEY OFFERINGS:

- Concept development and feasibility studies
- Catheter and delivery system design
- Implantable device development (vascular & cardiac)
- Design for manufacturability (DFM)
- Risk management aligned with ISO 14971
- Design verification & validation support

VALUE TO YOU:

Accelerate development timelines while reducing technical and regulatory risk.

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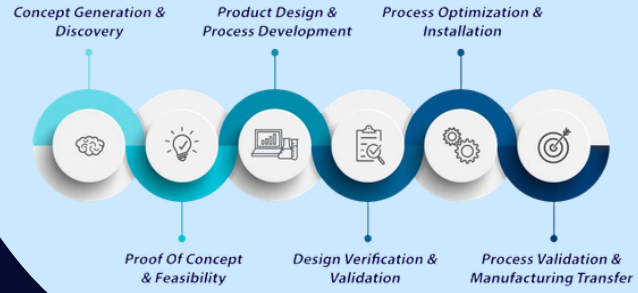
ProPlate®
Engineered Metal Coating Solutions



PROPLATE ADVANCED SURFACE TECHNOLOGIES

Proplate delivers innovative metallisation and coating technologies for medical components.

KEY OFFERINGS:

- Metal deposition on polymers (Meta-Poly®)
- Selective metallisation for complex geometries
- Conductive coatings
- Radiopaque marker integration (e.g. Vizi-Band®)
- Marker Bands
- Functional and decorative finishes

VALUE TO YOU:

Enable new device functionality without compromising flexibility or design integrity.

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PilotLine

PILOTLINE ACCESSIBLE INNOVATION EQUIPMENT

PilotLine provides advanced yet accessible equipment tailored for R&D, prototyping, and small-scale production.

KEY OFFERINGS:

- Coil winding systems (including Angle Pilot technology)
- Coating machines (CE-marked systems)
- Reflow Machines
- Equipment for catheter and tubing development
- Scalable systems for transition to production

VALUE TO YOU:

Reduce development cycles with flexible, cost-effective equipment.

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BayCath Medical

BAYCATH MEDICAL CONTRACT MANUFACTURING OF CATHETERS

BayCath Medical is dedicated to delivering high-quality, reliable, and innovative solutions to the medical device industry.

KEY OFFERINGS:

- BayCath Medical partners with catheter-based medical device companies to provide fast-paced, iterative development.
- R&D device prototypes are quickly iterated alongside our customers to find the best solutions together.

VALUE TO YOU:

Benefit from manufacturing expertise, commitment to quality, and tailored solutions to support your product development needs.

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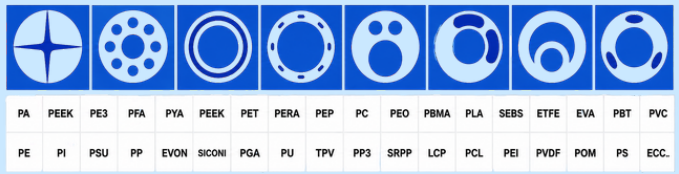

GIMAC ADVANCED EXTRUSION TECHNOLOGIES

Gimac is a leader in extrusion technology, specialising in high-performance tubing for medical applications.

KEY OFFERINGS:

- Micro-extrusion systems
- Multi-layer and multi-lumen extrusion
- Dynamic extrusion (variable durometer tubing)
- Process development and optimisation
- Digital traceability solutions (I-Loom)

VALUE TO YOU:

Achieve highly customised tubing solutions with consistent quality and performance.

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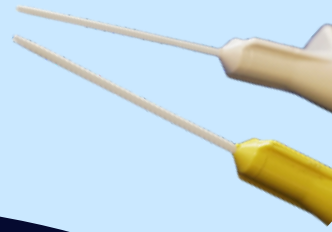
ONEX RF

ACHIEVE PROCESS EXCELLENCE



ONEX RF CATHETER TIP-FORMING & SPECIALISTS

ONEX RF delivers specialized systems, including a catheter flaring system, servo catheter tipper, and bonding solutions, all built to meet the precision and speed your applications demand.

KEY OFFERINGS:

- RF Tipping system in 2-3 weeks, Full turnkey tipping system ready to form customer catheters in 5-6 weeks
- Bonding and forming of thermoplastic components
- Die design and fabrication in 3-4 weeks
- Custom tooling for specialised applications

VALUE TO YOU:

Improve product quality and consistency in critical bonding processes.

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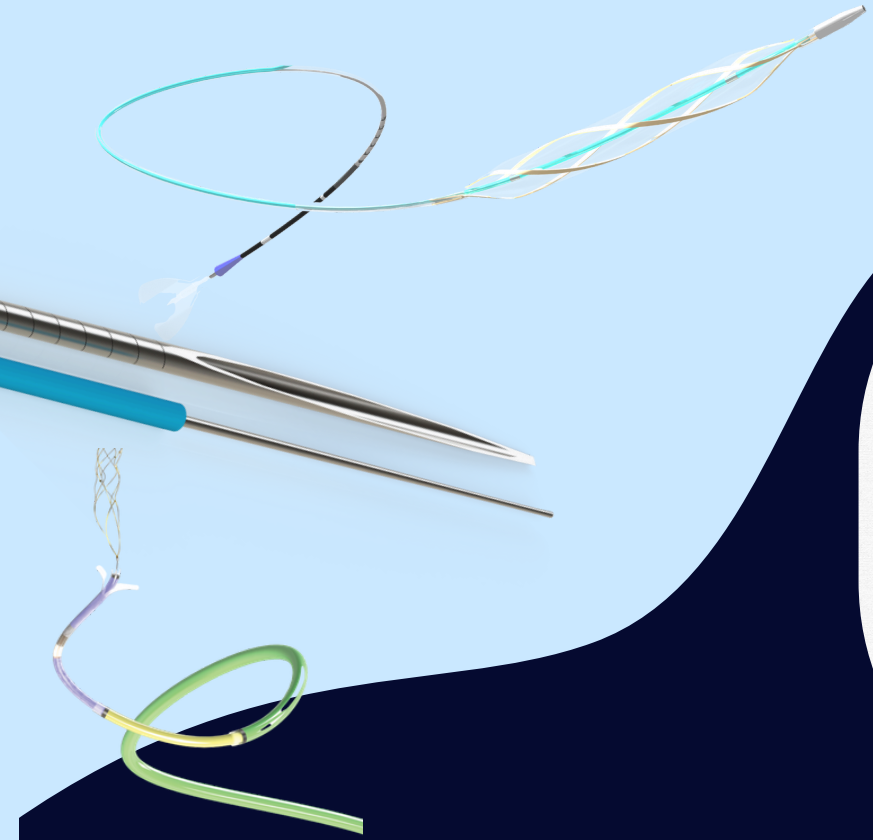
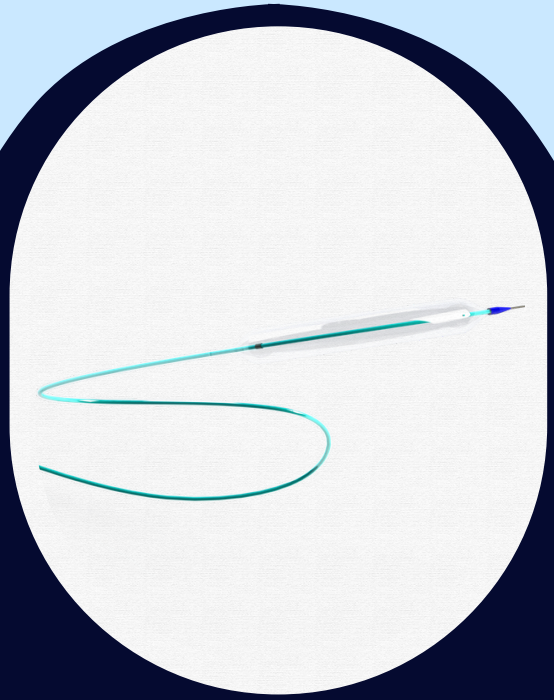
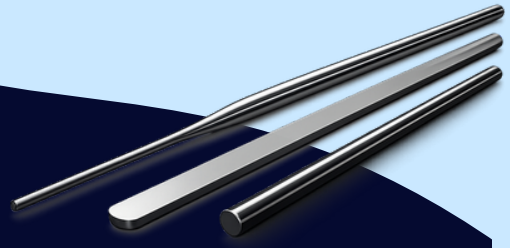




S3V VASCULAR TECHNOLOGIES



S3V VASCULAR TECHNOLOGIES SCALABLE MANUFACTURING

S3V offers comprehensive manufacturing services for catheter-based devices in ISO-certified environments.

KEY OFFERINGS:

- Catheter assembly and sub-assembly
- Cleanroom manufacturing (ISO standards)
- Balloon catheter production
- Process validation and documentation
- Scalable production capabilities

VALUE TO YOU:

Seamlessly transition from prototype to high-volume manufacturing.

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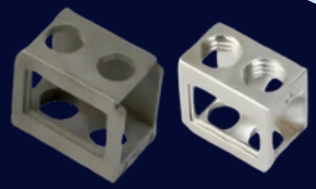
SIGMA Technologies



SIX SIGMA PRECISION MANUFACTURING PARTNER

Six Sigma provides high-precision manufacturing services tailored to the medical device industry.

KEY OFFERINGS:

- CNC machining of complex components
- Tight tolerance manufacturing
- Quality systems aligned with ISO 13485
- Prototype to production support

VALUE TO YOU:

Ensure component quality and consistency at every stage of production.

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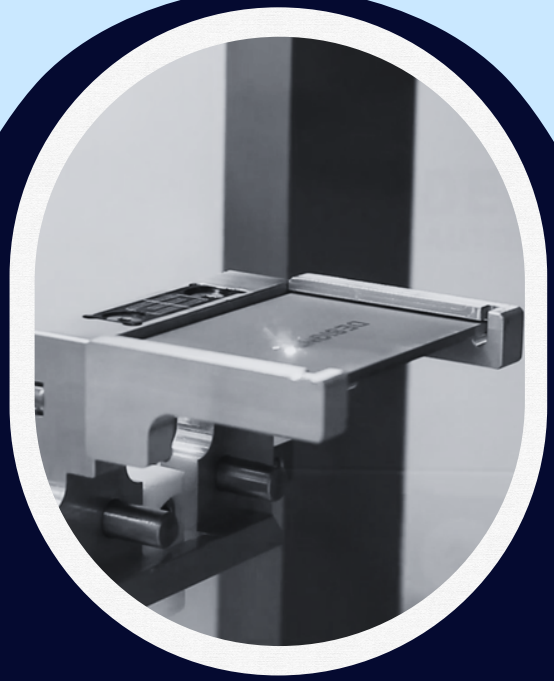

DESIGNPRO
AUTOMATION

DESIGN PRO AUTOMATION SMART MANUFACTURING SOLUTIONS

Design Pro Automation specialises in automation and robotics to optimise production processes.

KEY OFFERINGS:

- Custom automation systems
- Robotic integration
- Laser marking solutions (compact benchtop systems)
- Process efficiency optimisation
- Turnkey automation solutions

VALUE TO YOU:

Increase efficiency, reduce manual error, and scale production reliably.

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FCS
FAHY
CONSULTANCY
SERVICES

FCS (FAHY CONSULTANCY SERVICES) MANUFACTURING EXPERTISE

FCS provides expert consultancy focused on improving manufacturing performance and scalability.

KEY OFFERINGS:

- Process optimisation
- Manufacturing strategy development
- Lean implementation
- Equipment selection guidance
- Operational efficiency improvements

VALUE TO YOU:

Enhance productivity and prepare your operations for growth.

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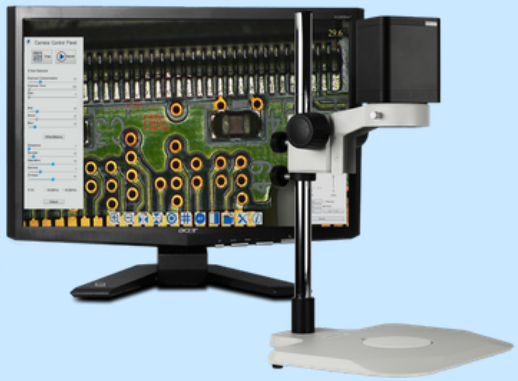
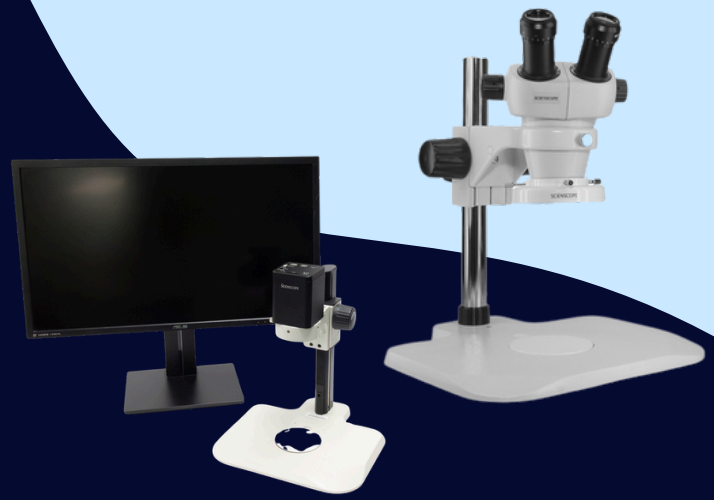


SCIENSCOPE
We Sell Solutions



INSPECTION EQUIPMENT ADVANCED QUALITY CONTROL

MSS offers a range of high-performance inspection and vision systems to ensure product quality.

KEY OFFERINGS:

- Digital and analogue inspection systems (including 4K vision)
- Measurement and metrology tools
- Real-time quality control solutions
- Image capture and analysis systems

VALUE TO YOU:

Maintain the highest quality standards with accurate, reliable inspection

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Online Shop

Explore our online shop to discover a curated range of equipment and solutions available for direct purchase. From R&D tools to production-ready systems, our shop provides easy access to trusted technologies.

Visit: https://mss-global.com/shop

Consultancy Services

Our consultancy services are designed to support your business at every stage:

- Process development and optimisation
- Material selection guidance
- Equipment selection and integration
- Manufacturing strategy
- Scaling from prototype to production

We combine technical expertise with industry insight to deliver practical, results-driven solutions.

At MSS, we are more than a supplier - we are your strategic partner.

By integrating innovative technologies with deep industry knowledge, we help you move faster, reduce risk, and achieve better outcomes.

Let’s build the future of medical devices together.

Contact us to learn more.

Website: www.mss-global.com
Email: sales@mss-global.com