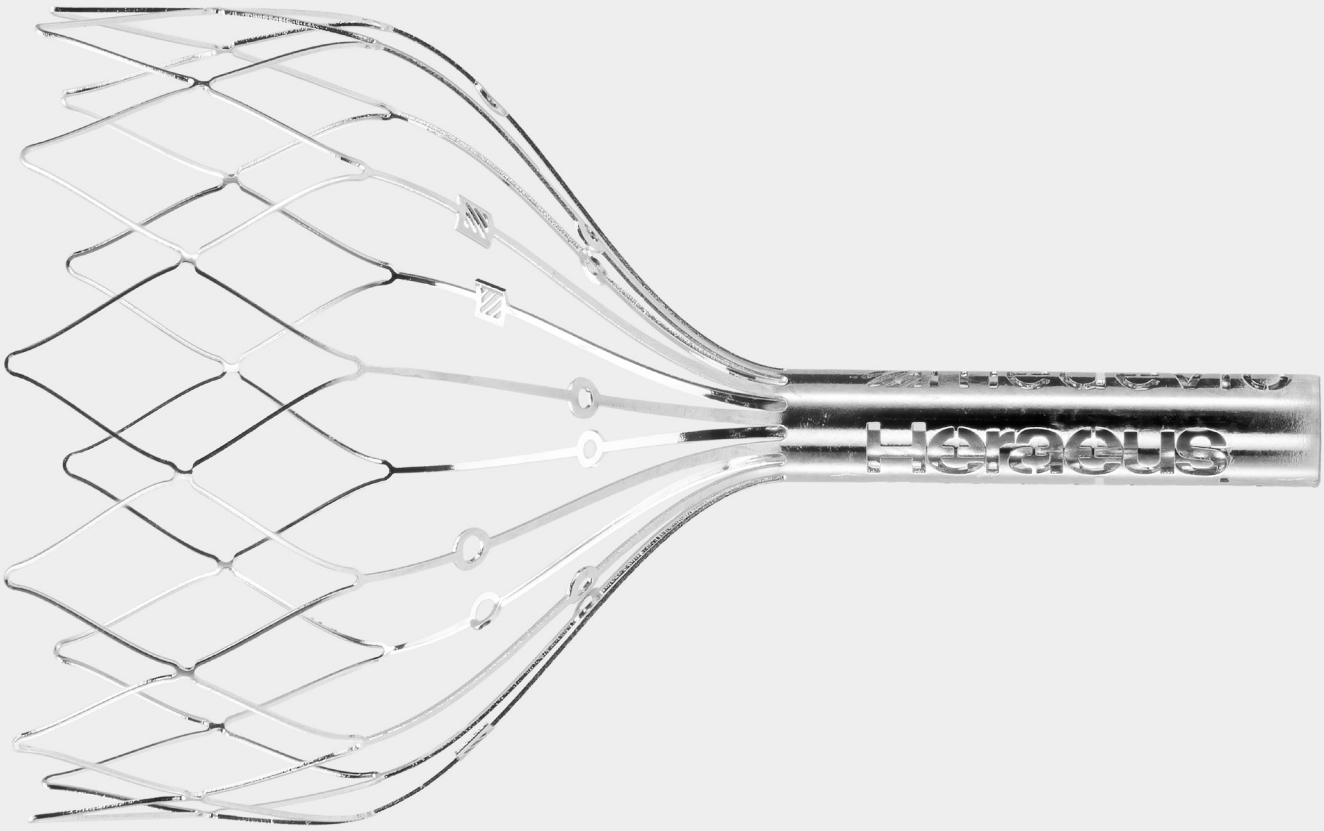
Heraeus

medevio



NITINOL PRODUCTS

CAPABILITES AND TECHNOLOGIES TO KEEP YOU MOVING AHEAD

Partner with our engineers as an extension of your R&D team on the design and processing of nitinol for complex interventional device solutions. Take advantage of our robust experience with tailored designs, as well as custom and plug-and-play laser processing, shape setting, and electropolishing methods to ensure your application-specific requirements are met.

One partner, one process: in-house tube manufacturing and final product development. This end-to-end capability enables customized geometric, thermal, and mechanical properties precisely aligned with medical application requirements.

YOUR PARTNER IN BRINGING BETTER MEDICAL DEVICES TO MARKET.

Heraeus Medevio acts as a flexible, tailored, end-to-end extension of your engineering and product development teams. With expertise from materials, development, and pilot production to high volume manufacturing including unmatched clinical and technical expertise, Heraeus device experts will also help you efficiently manage global regulatory and submission requirements.

PRODUCT DESIGN & DEVELOPMENT

Global collaboration hubs committed to design and development with dedicated pilot production lines that can be mirrored in production

MANUFACTURING EXPERTISE

Proven manufacturing technology excellence and superior engineering know-how to solve complex challenges

COMMITTED TO QUALITY

170-year history in materials science and trusted quality

SUPPLY CHAIN OPTIMIZATION

Vertically integrated from concept to completion to simplify your supply chain

Internally produced tubes to guarantee short delivery times and reproducible quality

With a tailored approach and capabilities from development to manufacturing ramp-up, work with Heraeusto simplify your supply chain, reduce risk and speed your time to market.

NAVIGATION	DELIVERY DEVICES	IMPLANTABLE SOLUTIONS

MATERIAL PROCESSING

- Grinding
- Laser processing
- Cobot assisted shape setting
- Electropolishing
- Automated microblasting
- Tube drawing
- Deep hole drilling / gun drilling
- SE-annealing of tube
- Centerless grinding

SHAPE-SETTING / HEAT TREATING

- Large expansion ratios are possible
- Shapes can range from simple radial expansion to complex geometries
- In-house fixture design and fabrication
- Active AF testing: bend and free recovery

COATINGS

- Hydrophilic
- PTFE

METALLOGRAPHIC INVESTIGATION

- Microsection
- SEM/EDX
- XRD
- FIB
- DSC/BFR
- Tensile test

LASER CUTTING

MATERIAL (WALL) THICKNESS	.002" - .050"
TUBING DIAMETER	.008" - .700" O.D.
TUBING LENGTH	We can accommodate most tubing lengths from 1" to 10'
FLAT CUTTING	Small parts only, up to roughly 1" max dimension

CUT WIDTH (LASER KERF WIDTH)

THIN WALL MATERIALS	(.002" - .050") Kerf = .0005"-.001"
REGULAR WALL	(.006" - .009") Kerf = .001"-.002"
THIN WALL	(.010" & larger) Kerf = .0015"-.004"

CALCULATING PART YIELD FROM RAW MATERIAL

PART YIELD PER TUBE LENGTH	(Supplied Tubing Length - 6") / (Part Length + .015") (for tubes longer than 6")
SMALL TUBES	Tubes smaller than 6" would be manually loaded on a fixture

TUBE SIZES

OUTER DIAMETER	Approx. 1,0 to 8,0 mm / 0.04 to 0.3 in
WALL THICKNESS	Up to 0,5 mm / 0.02 in

CONTACT US TO LEARN HOW WE CAN PUT OUR FULLY INTEGRATED, GLOBAL FOOTPRINT TO WORK FOR YOU.

heraeusmedevio.com | contact us https://bit.ly/heraeuscontactus