Nordson MEDICAL

Nitinol Versatile Braiding

Technical Comparison Chart

Capabilities	Versatile Braiding	Laser-Cut Nitinol	Standard Braiding
Multiple performances along the device	Yes	Partial	No
Resistance to fatigue	Yes	Partial	Yes
Deployment force	Yes	Partial	No
Controlled elongation	Yes	Partial	No
Crimped to expanded rate	Up to x30	Up to x10	Up to x30
Diameter compliance range (% of the specified size)	60%-100%	80%-100%	60%-100%
Smooth edges	Yes	No	Yes
Coatable	Yes	Yes	Partial
Corrosion resistance	Yes	Partial	Yes
Maintain alignment in long components 25cm - 50cm (10” - 20”) length	Yes	Partial	Partial
Number of required heat treatments	1-2	1-5	1-5
Density transition along the axis	<0.5mm	<0.5mm	20mm - 100mm
Closed atraumatic ends	Yes	Yes	Partial
Integrated radiopaque nitinol	Yes	No	Yes

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Nordson MEDICAL's Technical Capabilities

Features / Property	Description
Production Scale	Prototypes to high-volume manufacturing
Automation	Fully automated, versatile braider technology
Wire Count	3 - 72 wires (covers standard and advanced braiding)
Wire Diameter Range	0.038mm - 0.5mm (0.0016" - 0.02")
Wire Shapes	Round, flat, rectangular, pie, cable
Special Wires	Radiopaque nitinol, DFT, pre-coated wires
Wire Combinations	Any combination within a single braid
Braid Diameter (OD)	1.0mm - 25mm (0.04" - 1")
Braid Length	2.5mm - 500mm (0.1" - 20")
Closed-End Configurations	Integrated loops or ring features supported
Expansion Rate	Up to x30 (enables minimal delivery system size)
Deployment Forces	Controlled for precise and safe deployment
Elongation	Controlled for predictable performance
Coatability	Compatible with various coatings
Heat Treatment	Uniform, single treatment for superior material control
Fatigue Resistance	High (increases device durability and longevity)
Edge Quality	Smooth edges (low risk of sharp edges, liner peeling, tissue damage)
Design-to-Performance	Controlled braid performance for application-specific requirements
Secondary Processes	Laser welding, Electropolishing, Passivation