Nitinol is a metal alloy of nickel and titanium that exhibits both shape-memory effect and superelasticity. It is ductile, strong, and biocompatible. Biomedical applications utilizing nitinol include stents, implants, snares, and filters. Nitinol components are used in minimally invasive devices for markets including urology, neurology, vascular, gastrointestinal, and structural heart.

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Manual forming allows for a more customized product, with a wider range of sizes, shapes, and densities than machine or laser cutting and forming, including:

- Complex geometric mesh structures
- Complex geometric shape structures
- Multilateral closed ends
- Density variations within one product
- Attachment options such as spiral, wavy, or straight tips
- Symmetric and asymmetric structures

Nordson MEDICAL can shape your nitinol ideas into reality. Whether you’re looking for a handful of prototype devices or a partner that can scale to production volumes, we can handle your nitinol component needs. We are experts in complex manual nitinol wire braiding and forming with over 1 million nitinol components deployed into the field today.

Our highly skilled R&D team uses proprietary CAD modeling tools and an in-house workshop to provide you with true rapid prototyping services. When you’re ready to scale, our production facilities have more than 80 manual assembly stations with highly experienced manufacturing team members to meet your volume production needs.