Patients with neurovascular disorders, including brain aneurysms and carotid artery disease, are benefitting from advancements in microsurgical devices and treatments. These minimally invasive treatment options include microcatheters for angioplasty and stenting, embolization, and thrombectomy devices.

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These devices have specific requirements to accommodate torturous anatomy. Nordson MEDICAL is uniquely positioned to develop these life-saving advancements, with expertise developing thin-wall, high performance micro-catheters that optimize for specifications including pushability, flexibility, and mobilization resistance. We have perfected the process for producing polyimide shafts with very thin walls to achieve extreme flexibility with high column strength. Our secondary processes include enhanced tipping capabilities, lamination of multiple materials to blend continuously and minimize failure of butt joints or air entrapment, and radiopaque marker bands to assist with visualization during catheter placement.

Get a quick-turn prototype balloon catheter delivered in as little as 2 weeks with balloons from 2 mm in diameter. The ModCath™ tool helps you make design iterations faster, speeding initial evaluation of prototypes for proof of concept. There’s no need to invest in custom balloons and extrusions in the early stages of your project, and you can order as few as 3 catheters per design.

If your project needs further customization, leveraging components from your ModCath™ tool design can minimize costs and give you a head start on production.