



## Specialty Needles

### Tegra specialty needles get the point. No compromises.

When you're in the market for a specialty needle manufacturer, you can't accept any compromises. Not in experience, not in time-to-market, and especially not in quality.

Tegra Medical offers the experienced staff, top-of-the-line needle manufacturing equipment, automated assembly stations and a competitive price that keeps our needle customers coming back year after year.

#### EXPERIENCE AND DEPENDABILITY

Tegra Medical's decades of experience in manufacturing specialty needles began with two of our founding firms: American Medical Instruments and New England Precision Grinding. These trusted companies had a long, proud history of manufacturing high quality needles – a process that continues at Tegra's Dartmouth, Massachusetts facility.

Our experience means that you can depend on Tegra to deliver the exact specialty needles you need when you need them.

#### NEEDLE POINTING

Tegra offers a vast range of needle pointing capabilities, but what really matters is that we offer what you need so you can keep your own customers happy.

The points we offer include:

- Single facet
- Conical point
- Arrowhead point
- Franseen point
- Quincke point
- Trocar point
- Truncated cone point
- Whitacre point
- Tuohy point
- Regular medical point
- Cone trocar point
- Tapered point
- Backside point

#### CUSTOM NEEDLES

Got a special request? Most of our customers do. Whatever your product requirements, chances are that Tegra already has experience manufacturing it. We can manufacture virtually any custom needle geometry. We offer design for manufacturability and assembly to ensure that these custom products will meet all functional requirements and be cost-effective.

Available services include:

- Specialty coatings for dielectric properties and lubricity.
- Finishing services for echogenicity, polishing, laser marking, laser etching, and grit blasting.
- Hermetic sealing of hypodermic tubing.



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## PROCEDURE NEEDLES

Tegra Medical offers a wide variety of procedure needles for all markets. Examples of such needles include but are not limited to:

- Biopsy
- Bone marrow
- Spinal
- Aspiration
- Vertebroplasty
- Guidewire introducer
- Drug delivery
- Epidural
- Huber

## EXPERTISE

You can let Tegra handle your complete needle manufacturing process from start to finish. We've got it covered – from our dedicated prototyping operations to needle pointing to insert molding and final assembly and finishing operations, including sterile packaging. Some of our capabilities that are especially geared to manufacturing specialty needles include:

- Precision Grinding
- Clean Room Assembly
- Insert Molding
- Electropolishing
- Automated Assembly
- Sterile Packaging

## QUALITY

The quality of Tegra's specialty needles is known in the medical industry. We've implemented robust quality procedures and cGMP practices to satisfy all quality requirements and customer specifications. To ensure the highest levels of quality for your needles, we:

- Examine first pass yields.
- Use real-time statistical process control.
- Deploy lean manufacturing/Six Sigma tools to eliminate waste and remove variation from our manufacturing processes.
- Employ Black Belt-certified engineers to drive our quality and continuous improvement focus throughout the organization.
- Validate special processes to optimize repeatability, minimize inspection time and reduce cost.
- Certify to ISO 13485:2003 and 9001:2008 standards and comply with FDA's Quality System Regulations.
- Train our employees so that we continuously improve critical skill sets and integrate a quality discipline into everything we do.

Tegra Medical offers an array of prototyping and manufacturing services with 200,000 sq. ft. of manufacturing in four locations. We use the latest in process controls to give you peace of mind and the highest quality product. Call us to find out how we can help you be more successful.

BOSTON      MEMPHIS      COSTA RICA

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