

After nearly twenty years performing composites research, Mentis Sciences, Inc. is applying its expertise to innovation in the Prosthetics and Orthotics industry.

Employing the same textile braiding techniques it uses to fabricate hypersonic missile components, Mentis has developed an automated Integrated Manufacturing Cell that braids fibers directly onto a positive plaster or foam mold.

As noted by the Service Member's Civil Relief Act (SCRA) in 2014: "The braider is capable of achieving fiber densities that are unobtainable using traditional fabrication methods and materials, producing substantially lighter sockets. The sockets produced with this technology are up to 50 percent lighter, cost 40 percent less to manufacture, are produced quicker, and have longer lifecycles than traditional fabricated sockets."

Mentis has also developed a digital alignment jig to increase throughput and avoid costly mistakes caused by misalignments.

Shaping Leading Edge Solutions to Improve Your Quality of Life

Engineered



Innovative



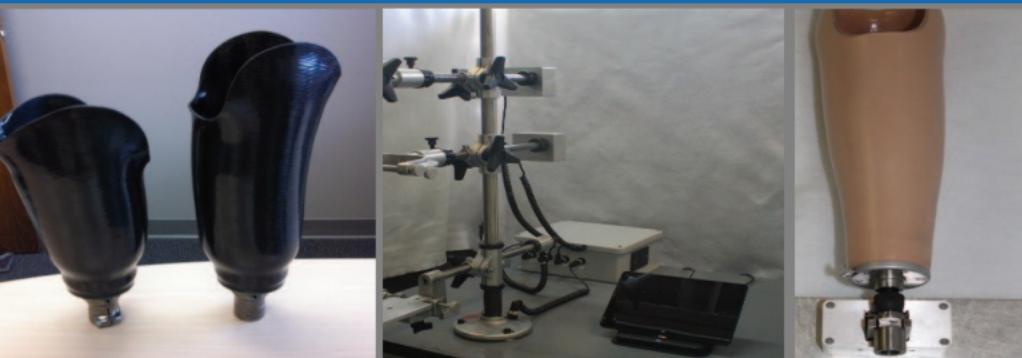
Customized

Solutions

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Prosthetics/Orthotics

- Mentis Sciences ensures consistency and repeatability in our products with rapid production capabilities.
- Digital jig displays accurate alignment positions, and can save and recall patient measurements at any time.
- Braided prosthetics are lower cost, lighter weight, higher strength and more consistent.
- Engineered Orthotics optimize performance using laminates.



Integrated Manufacturing Cell

- Repeatable Automated Process
- Customized Fiber Placement
- Customized Levels of Strength
- Meets ISO Standards

Digital Alignment Jig

- Multiple sockets—no need to use a jig exclusively until completion
- Rapid Turnaround
- Digital Adjustments of Patient Measurements
- Digital Alignment can be saved and recalled

Prosthetics/Orthotics

- Patient Oriented Database
- Duplication of Products
- Strength and Performance
- Customization
- Lower Cost
- Light Weight
- Improved Production Rates

Tool Changer

- Provides a means for self-sufficiency to dual transradial amputees
- Connects to multiple tools customized to patients needs / requirements
- All changes can be performed by amputee without assistance

Contact Us: (603) 624-9197
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