

FITZ-THORS MECHANICAL

Fitz-Thors Mechanical, Inc. provides design, development, and consulting services to various industries. The company's primary focus is in developing custom mechanical equipment and systems. With design offices in Vance, Alabama, Fitz-Thors Mechanical can offer comprehensive services to develop your mechanical solutions from design to delivery.



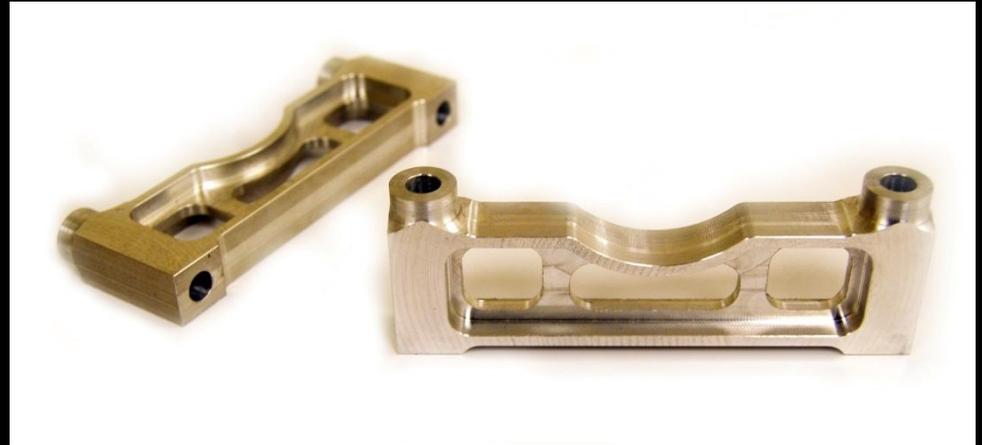
FTM Services Include:

- Advanced mechanical modeling, simulation, and analysis with SolidWorks 3D CAD design software
- Full Service Machining and Fabrication Capabilities
- Production Machining
- Prototype Development
- Process Automation and Control Systems
- Turn-Key Solutions
- Custom Material Handling Equipment
- Test/Assembly Fixtures
- Equipment Installation and Maintenance

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Specialized Machining

Fitz-Thors Mechanical has in-house high speed CNC machining capabilities. Our machines use *Renishaw* wireless probing to perform part and tool offsets, in addition to part inspection and tool wear detection, to ensure the highest possible quality and repeatability of machined parts. Fitz-Thors has experience in machining various materials and can handle quantities large or small.



Break Caliper Mounts for Citation Engineering



Aluminum sprocket with engraved logo



Delrin and Acetal Parts for Non-abrasive applications

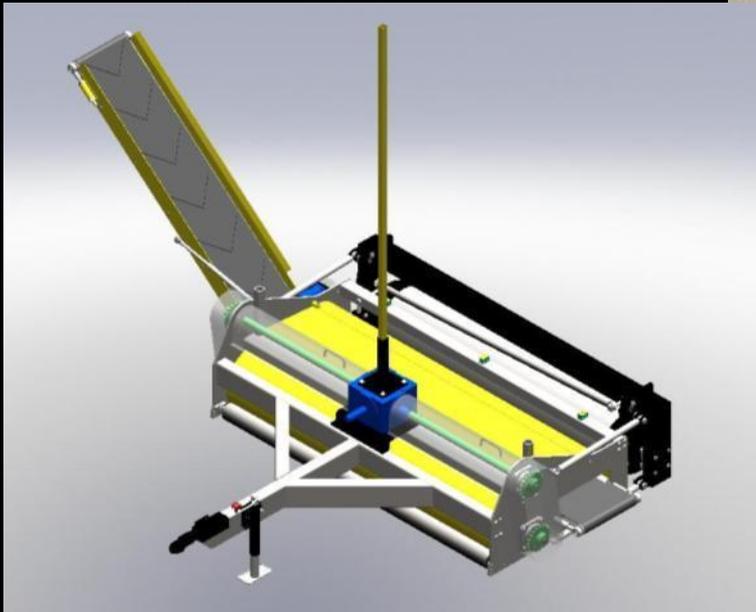


MIL Spec bronze casting machined for US Military

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Product/Prototype Development

Fitz-Thors Mechanical worked with *G2Turf Tools* to develop a specialized cutting head and safety features for their *TurfPlaner*, a new line of equipment for surface reconditioning and maintenance of high-end sports fields and golf courses.



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Custom Material Handling Equipment

Fitz-Thors Mechanical often works with customers to improve components that are considered weak links in existing systems.

Fitz-Thors performs design optimization using Finite Element Analysis in SolidWorks to maximize equipment strength for given packaging constraints. This ensures our fabricated equipment can handle customers demands and reduce maintenance requirements.



Fitz-Thors Mechanical designed and fabricated equipment used in automation system to load wheel assemblies into distribution trucks for Mercedes-Benz. The customer's previous equipment could not withstand the heavy cyclic loading and had become a continual maintenance issue.

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Electro-Mechanical Design



Original push/pull material handling cart.

Approx. weight full loaded 3,000lbs.

Requested design to address ergonomic issues with team members having to manually move carts.

FTM Base Cart

24V DC power base cart, with retractable drive wheel.

Programmable parameters include accel, decel, and breaking.

Self-locates rack for ease of loading and unloading of racks.



FTM Base Cart with Modified Rack

Maintains original cart footprint.

Capable of being coupled to other carts (by use of tow bar and hitch) and pulled by tuggers.

On board charging with standard extension chord and wall outlet.

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Custom Test Fixtures

Fitz-Thors Mechanical designed & fabricated electrical test equipment for Johnson Outdoor's *Humminbird* division to eliminate component damage and increase overall product throughput.



The showcased fixture eliminated several tedious manual tasks by combining locating, probing and adjustment into one convenient place and test device.

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Data Collection and Sensor Equipment

Designed and developed product to actively test and record proper operation on critical sensors that monitor vehicle tire pressure for newly assembled wheels and tires.



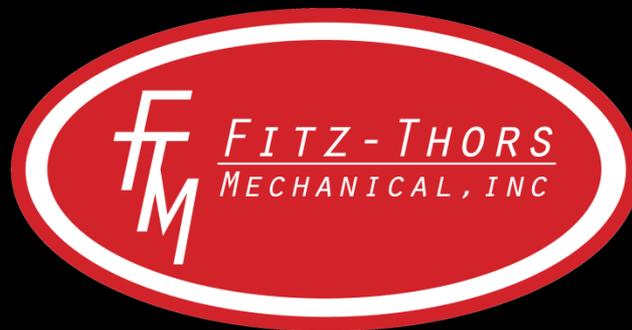
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Facilities

Fitz-Thors Mechanical is located in the Brose Industrial park, less than one mile from the Mercedes-Benz manufacturing facility, in Vance, AL.

Our facilities complement efforts in design, fabrication, and testing by combining all services under one roof which includes a 2,000 ft² machine shop & 30,000 ft² of open warehouse space that can accommodate any size project.





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