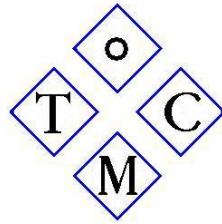
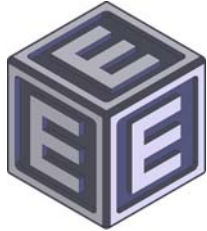




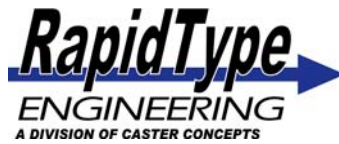
Fabricating Concepts, LLC
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 800.800.0036 (fax)



The Machine Center
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 517.629.2411 (voice)
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Rapid Type Engineering
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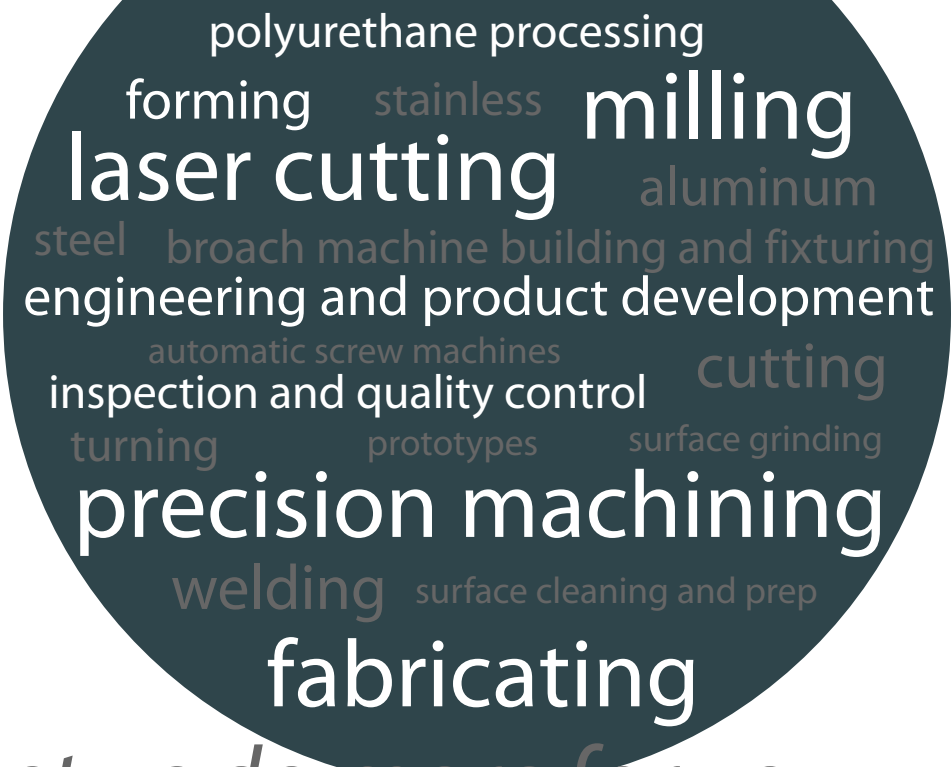


Reaction Industries, LLC
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CASTER CONCEPTS

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Let us do more for you...

The Machine Center, Triple E, LLC, Fabricating Concepts LLC, and Reaction Industries, LLC are four value-added manufacturers held under the parent company of Caster Concepts, Inc. The four locations have the combined manufacturing capabilities (details inside) of businesses much larger while not losing sight of customer needs. Backed by the engineering staff of Rapid Type Engineering, we have the combined ability to tackle your projects.

- Highly complicated prototypes
- Reverse engineered products
- Low production runs
- Large volume multi-operational projects
- Machine building
- Design, build and test projects

Consider this family of businesses supported by Caster Concepts, Inc. when you have outsourcing opportunities. All companies are certified by ISO 9001-2000 standards and are capable of meeting your needs - on time - on demand - on budget. Let us go beyond standard for you.

ON TIME - ON DEMAND - ON BUDGET

**Call a member of
 our sales team today!**

517.629.8838

Look at what we can do for you - ON TIME, ON DEMAND, ON BUDGET.

PRECISION MACHINING

- * Turning
 - * Eight CNC lathes with ability to turn up to 22"
 - * Daewoo 12 L-B
 - * Daewoo 250
 - * Daewoo 250 MS (live tooling and bar feeding)
 - * Daewoo 8S
 - * Daewoo 200C
 - * Haas SL 20 (bar feeding)
 - * Haas SL20 (30hp and 5000 rpm's)
 - * Murata MR 12
 - * Two CNC twin spindle machines for high production machining
 - * Daewoo 200 2SP
 - * Daewoo 250 2SP
 - * Three engine lathes for short run prototype, shafts up to 100"
 - * Off-line programming with Gibbs Cam software
- * Eight Acme automatic screw machines capable of 9/16" to 2 5/8"
- * Milling
 - * Four CNC mills for short run or production milling
 - * Daewoo Mynx 500
 - * Haas VF-5 (4th axis)
 - * Haas VF-2 (4th axis)
 - * Haas VF-1 (4th axis)
 - * Haas TM-1 (4th axis)
 - * One Daewoo DMV 400 turn table mill for high production milling/drilling



- * Six knee mills for tool room work - including Prototrack
- * Off-line programming with Gibbs Cam software
- * Six broaches (24", 48", 72")
- * Drilling
 - * Solberga 3 HP power feed heavy duty drill press
- * Boring Mill-Devileg
- * Surface Grinding
 - * Chevalier 6X18 table
 - * Splitback 6X18 table
 - * ID grinding up to 8"
 - * OD grinding up to 10"
 - * Rotary grinding
 - * Centerless grinding
 - * Surface grinding 18X72"

SURFACE CLEANING AND PREPARATION

- * Bronco 6.5 cu ft blaster
- * Bronco 3.5 cu ft blaster
- * Hot parts washing

POLYURETHANE PREPARATION

- * Meter mixing capabilities for MDI and TDI material
- * Standard durometer of 70A/85A/95A/70D
- * Ability to pour varying durometers to meet specifications
- * Bonding expertise of poly to metal
- * Batch capabilities for a variety of materials and for research and development

- * Special and custom mold design
- * Durometer testing

FABRICATING

- * Laser Cutting
 - * Two Amada FO3015NT lasers with 5X10' shuttle table, continuous 4000 watt cutting, Metamation software driven
 - * Steel to 1.125"
 - * Aluminum to 0.375"
 - * Stainless to 0.5"
 - * Call for other cutting capabilities
- * Forming
 - * Amada 240 ton brake press
 - * 8 axis back gauging
 - * 14' bed
 - * Short or long production run capabilities
 - * Amada 8025 NT
 - * 80 ton
 - * 8 axis back gauging
 - * 8' bed
- * Welding
 - * Four Lincoln PowerWave Pulse welders (Mig)
 - * One Lincoln Precision Tig 375
 - * One multiple cell Fanuc 100i Robot powered by a Lincoln PowerWave welder
- * Cutting
 - * Amada 350W automatic band saw

TOOL ROOM CAPABILITIES

- * Broach machine building
 - * Broach fixturing
 - * Automation Integration
- * Broach cutter development and manufacture
- * Prototype development and build
- * Haas TR2 programmable lathe

ENGINEERING AND PRODUCT DEVELOPMENT

- * Four degreed Mechanical Engineers
- * One degreed Polymer Materials Engineer
- * Full time SolidWorks/CAD technician
- * SolidWorks platform
- * AutoCAD capabilities
- * Gauging and fixturing capabilities from design to development

INSPECTION AND QUALITY CONTROL

- * All facilities are ISO 9001-2000 certified
- * CMM-Sheffield RS50 Cordax DDC with Open DIIMS software
- * Comparator
- * Profilometer
- * Rockwell hardness testing
- * Full SPC documentation on production runs

TESTING

- * Wheel endurance and fatigue analysis on drum testing machine with 24/7 monitoring using multiple sensor feedbacks
- * Bond and peel testing and qualification using custom designed, 20,000 lb max pull testing machine
- * Dynamic and static performance evaluation of shock absorption wheel products



The Machine Center - Reaction Industries - Fabricating Concepts - Triple E

Call today for a quote or for further information!