



CNC Machined Components

- Prototype services to palletized CNC machines for high volume machining
- CAD/CAM software for design assistance and accurate, timely quotations
- Horizontal and Vertical machining centers ensure versatility
- Casting machining experience
- Materials include aluminium, carbon and stainless steel, Kovar, Titanium and plastics
- CNC Milling table travel from 11" to 60", spindle speeds to 15,000 RPM

Investment Castings

- Over 150 Ferrous and non-Ferrous alloys poured
- Prototyping Services Available
- Near net shape, ZERO DRAFT technology
- 125 RMS or better surface finish
- Design services available to aid product improvement/value analysis projects
- Secondary machining operations available upon request
- ISO 9001:2008, AS9100C, NADCAP Certifications

Screw Machining
CNC Milling/Turning
Zinc Die Castings
Aluminium Die Castings
Investment Castings
Stampings
Injection Molding
Powdered Metals

Gerry Pesce

gerry@advancesourcing.com
office 860.496.0180
cell 860.480.1662
fax 860.201.1011
PO Box 331
Torrington, CT 06790

www.advancesourcing.com

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your source for custom engineered components





Die Cast Components

Zinc Die Castings

- Zinc Die Cast components from one gram to 5 lbs
- Hot chamber Zinc Alloys #2, #3, #5, #7 and ZA-8
- Precision zinc die cast components cast on conventional and multislide die casting machines
- Finished die castings including machining, plating and powder coating
- Off shore tooling options for lower up-front tooling costs
- Prototype services available

Aluminium Die Castings

- In house die design and manufacture
- Most aluminium die casting alloys, including ZA alloys
- Fully automated die casting machines for high volume programs
- Manual machines for low volume projects
- Castings from 1 ounce to 18 lbs
- Full secondary and finishing operations available



Custom Screw Machine Components

Brown & Sharpe

Bar Capacity: from .125" 0 to 2.375" 0
 Typical Tolerances: +/- 0.001" on O.D. and I.D. and +/- 0.003" on the length
 Materials: all metals and most plastics
 Run Size: 500 pieces to 20,000

CNC Swiss Screw Machine

Bar Capacity: from .093" 0 to 1.25" 0
 Typical Tolerances*: +/- 0.0005" on O.D. and I.D. and on overall length +/- 0.003"
 Materials: all metals and most plastics
 Run Size: 500 pieces and up

Davenport Multi-Spindle Screw Machine

Bar Capacity: from .0935" 0 to .875" 0
 Typical Tolerances: .0003" on O.D., .001" for length
 Materials: aluminium, brass, copper, steels, plastic
 Run Size: from 5,000 to millions

Acme Gridley Multi-Spindle Screw Machine

Bar Capacity: from .0625" to 2.625"
 Typical Tolerances: +/- .0001" on O.D. and I.D. and +/- 0.003" on the length
 Materials: brass, copper alloy, steel, alloy steel, stainless steel, and aluminium
 Run Size: from 10,000 to millions



Custom Molded Components

Powdered Metal Components

- Custom, precision, ferrous powdered metal parts to 500 grams
- Secondary coining and sizing operations enhance structure and tolerance
- Oil impregnation for lubricity makes ideal bearing components and bushings
- Ferrous impregnation improves powdered metal part density to 7.4 g/cc
- Powdered metal parts feature complex external and internal shapes
- Flexibility in shape makes near net-shape sintered metal parts
- Minimal material waste ensures competitive pricing

Plastic Injection Molding

- Rapid prototyping, single cavity soft tooling, Short run capability
- Complete in house toolmaking and low cost offshore tool options available
- Transfer mold specialists
- Precision, close tolerance molding
- Clean room environment
- Insert molding, Two shot molding, Over molding, Multi-Material Molding
- ISO: 9001:2008, compliance with 21 CFR 820 for Good Manufacturing Practices
- Pad printing, painting, ultrasonic welding, EMI/RFI shielding services