



**Circle Gear &  
Machine Company, Inc.**

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## Custom Internal Gears

(click on thumbnail to enlarge)



Custom Internal Gears

**Circle Gear & Machine Co.'s** full line of gear manufacturing services includes internal gears, in addition to our selection of conventional, external gears. Internal gears, with teeth located on the inside as opposed to the outside of the gear, are used in all industries, from military/government to electronics and chemical applications. We also serve customers in the medical, automotive, biotechnology, and packaging industries. Our internal gears can be produced in diameters up to 42", with a maximum diametrical pitch of 2.5, and a maximum module of 10.

As with our conventional external gears, shaft options include flat or hex shafts, and we use gear cutting methods from broaching to hobbing, depending on design choices and end-user requirements. We can also heat treat internal gears via carburizing, flame induction, or nitriding.

**RFQ / RFI**

## Custom Internal Gears Capabilities

Diameter	Max 42 Inch	
Diametrical Pitch	Min	Max 2.5 DP
Module	10	
General Capabilities	As Needed Contract Just-In-Time	Production Small Parts
Primary Capabilities	Die Forming Finishing	Heat Treating Machining
Materials	Acetal/Delrin Alloy Steel Aluminum Brass Bronze Carbon Steel Ductile Iron	Gray Cast Iron Nylon Plastic Phenolic Polycarbonate Polyester Stainless Steel
Industry Focus	Automotive Biotechnology Chemical Construction Electrical Electronics Food Processing HVAC Heating, Ventilation, and Air Conditioning	Medical Mining Nuclear Oil, Gas, Petroleum Optical Packaging Pharmaceutical Plumbing Pneumatics Pulp & Paper

	Machinery Marine	Pumps Semiconductor
Shaft Feature	Flat Hex	
Gear Cutting Method	Broaching Flame Cutting E.D.M.	Milling Shaping
Gear Forming Method	Centrifugal Casting Die Casting Forging Sand Casting	
Heat Treatment Methods	Carburizing Flame	Induction Nitriding
Production Volume	Specialty Production Shop Prototype Low Volume Small Run	High Volume Large Run Long Run Large Scale Production Volume Run

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