



**Design.**

**Fabrication.**

**Inventory  
Management.**

*The  
Single  
Source  
for  
Plastic  
and  
Metal  
Fabrication.*

# Dielectric Corporation

*One-Stop Shopping for the World of Plastics Technology*

*Dielectric Corporation has spent nearly 40 years as a fabricator of engineered plastic parts and services. We have built a solid reputation for quality, value-added products and superior service. In any industry, a solid reputation doesn't happen by accident. You have to earn it.*

**In any industry, a solid reputation doesn't happen by accident. You have to earn it.**

**How did we earn it?** We listen. We listen to the needs of customers and provide the parts and turnkey solutions needed to simplify manufacturing processes.

**Customers demanded more service.**

We responded by creating custom machining and shipping programs, continually fine-tuning them to make our service the best in the business.

**Customers needed to decrease their vendor base.**

We developed relationships with raw material suppliers, extended our in-house capabilities and created an engineering design function. Dielectric can act as a single-source supplier of fabricated plastic parts from concept through delivery.

**We listen for new, emerging technologies.**

We incorporate the world's best into our products and services. We know that the best way to support our customers is to continue to research and develop better ways of fabricating their plastic and non-ferrous metal parts.

**We never take manufacturing needs for granted.**

By incorporating the best materials, equipment and processes, our goal is providing customers with the best manufacturing solutions.

After all, we want you to be a customer for life.



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# Single-Source, Global Plastic Fabricating Solutions

Dielectric Corporation has been a part of the plastics fabricating industry for a long time... nearly 40 years. We understand all aspects of the industry, we believe in it and we're proud to be part of it.

What sets us apart from the competition is expertise and flexibility in all aspects of fabrication. From specification of raw materials to machining to stocking programs, Dielectric Corporation is a global production partner for runs of 1 piece or 1 million pieces.

- **Relationships and experience** with material sources enables us to specify and provide raw materials at substantial savings.
- **In-house engineers** act as a customer design staff, or as an addition to the design staff.
- **Three facilities with complete machining and assembly capabilities** offer extended capacities with localized support.
- **Strict adherence to quality standards** ensures that all production runs are to specification.
- **Customized production/stocking/shipping programs** take internal costs out of manufacturing budgets.

**Our wealth of knowledge in providing the right materials is unequalled in this industry.**



## One Word. Plastics.

Dielectric Corporation has been specifying and purchasing raw materials for as long as we've been in business. Our wealth of knowledge in providing the right materials is unequalled in this industry. We buy direct from the manufacturing resource, acting as a distributor for some products. Our materials expertise is applied early in the design stage to optimize quality, minimize cost and eliminate production problems before they arise.



- **Vast experience** with both conventional and exotic materials.
- **Special expertise** in the purchase and/or creation of custom materials that meet special needs.
- **Membership in professional industry organizations** ensures on-going education in new plastic material and metal technologies.
- **Leader in the industry** as a distributor and fabricator of materials made for thermo-insulation molds.

# Bend it. Shape it. Any Way you Want it.

At Dielectric, we use a combination of the right machine, the right craftsman and the right materials at all three of our manufacturing facilities. Our approach ensures delivery of the right part at the right time.

## Custom Fabrication

- CNC machining with custom tooling
- Multi-axis capabilities
- AutoCAD® and SURFCAM® programming
- Capabilities up to 63" x 118" (1600 mm x 3000 mm)

## CNC Machining

- State-of-the-art equipment with rapid toolchanging and pallet changers
- Custom machining from tube, rod, sheet and film
- 4-axis turntable capabilities

## CNC Lathe and Turning

- CNC lathe capability up to 14" (350 mm) outside diameter and 4" (100 mm) bore
- Manual lathe capability from up to 36" (900 mm)
- Bar feeders increase maximum machine efficiency

## CNC Fabrication of Thermosets

- Machining and assembly of electrical insulation materials
- Secondary operations and special finishes
- Global distributor of Glasstherm®
- Thermoset materials include: Phenolics, Vulcanized Fiber, Glass Polyester, Glass Laminates, and Custom Industrial Laminates
- Epoxy (FR4), Melamine, NEMA-grade materials

## Custom Packaging and Assembly

- Guaranteed satisfaction of all customer requirements for assembly and packaging
- Solvent-bonded and mechanical assemblies
- Kitting of all varieties
- Multiple assembly capabilities

## Special Product Fabrication

- Thermo-forming and heat bending
- Cold forming up to 96" (2438 mm)
- Flame polishing, buffing and sandblasting
- Silk screening
- Secondary operations including installing inserts and special finishes

## Punched Parts with In-House Tool & Die Capabilities

- Presses ranging from 2-ton to 100-ton
- Computerized storage system for tooling
- Steel rule die capability
- Hard tooling dies

## Distribution and Fabrication of Thermoplastics

We fabricate all made Thermoplastics materials such as:

- ABS
- Acetal
- Acrylic
- Polycarbonate
- PVC
- Polyethylene
- Styrene and any other Thermoplastic materials available in sheet, rod or tube
- UHMW
- Teflon®
- Ultem
- PBT
- Nylon
- Noryl

## Fabrication of Non-Ferrous Metals

- Full range of machining operations
- Secondary operations
- Plating and anodizing
- Assembly

### The Machine's the Thing.

We maintain a large assortment of CNC machines to provide unmatched shop floor capabilities for any kind of machined part. All operations are performed in-house by skilled craftspeople, resulting in parts that are right the first time, every time.

#### Our list of production capabilities includes:

- Machining
- Routing
- Drilling/Tapping
- Milling
- Stamping
- Turning
- Bending, including Cold Forming and Heat Bending
- Sawing, Shearing and Sanding
- Deburring

### Single Source Means Single Source.

Today's competitive manufacturing environment demands that fewer vendors be in the supply chain. Dielectric Corporation answers that requirement by offering additional, value-added services to our customers.

- Assembly
- Kitting
- Silk Screening and Painting
- Prototyping
- Special Finishes
- Mechanical and Design Engineering Services with AutoCAD®
- Custom Packaging

**Expertise in machining and production** allows us to offer services outside of normal plastics fabrication.

- Fabrication and Machining of Non-Ferrous Metals
- Fabrication and Machining of Wood Products
- Slitting and Sheeting

### Partners in Production.

Every manufactured part is unique and some advanced part programs require extended services. Dielectric Corporation has resourced the best providers of these services and can offer them as a part of our single-source solutions. Our long-term, professional relationships ensure that customers enjoy quality services with a seamless delivery.

- Rapid Prototyping
- Injection Molded Products
- Rotational Molded Products
- Custom Extrusions

### You Want it When?

Let's face it. We all live and die by the production forecast set up by management. Dielectric can help meet schedules by creating customized manufacturing and shipping programs, specifically designed to customer requirements. We're proud to say there are virtually no limitations to the programs we can create.

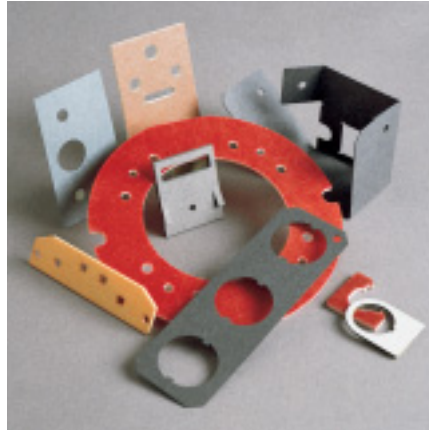
- Stocking programs to fit forecast
- JIT delivery programs
- KANBAN manufacturing/delivery programs
- Safety Stock Programs

**Expertise in machining and production allows us to offer services outside of normal plastics fabrication.**

CNC  
Machining



Punched Parts  
with In-House  
Tool & Die  
Capabilities



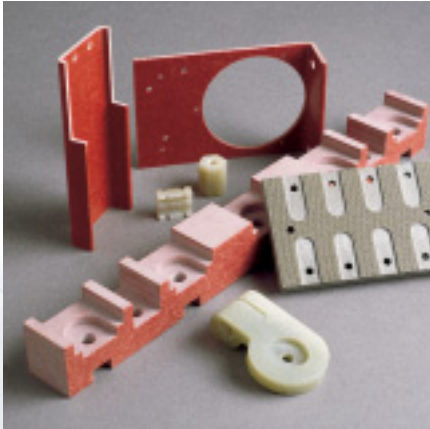
Custom  
Packaging  
and Assembly



CNC  
Lathe and  
Turning



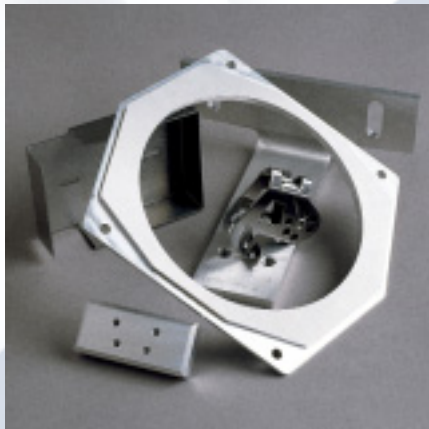
CNC  
Fabrication  
of Thermosets



Special  
Product  
Fabrication



Aluminum  
Parts



Formed  
Parts



# It's a Small World after all.

To meet the demand of domestic and global customers, Dielectric Corporation has established three separate production facilities. Where a product is produced is dependent upon customer location and the expertise within a specific facility.

- **Menomonee Falls, Wisconsin**  
Corporate headquarters. Complete design, assembly, machining and stocking capabilities.
- **Lake Mills, Iowa**  
Complete machining, assembly and stocking capabilities.
- **Monterrey, Mexico**  
Complete machining, assembly and stocking capabilities.

The square footage of a production facility is of no use without a customer benefit. At Dielectric, our customer-focused manufacturing is devoted to quality production at each location. Our facilities are either ISO certified or working toward that designation.



## Nobody does it Better.

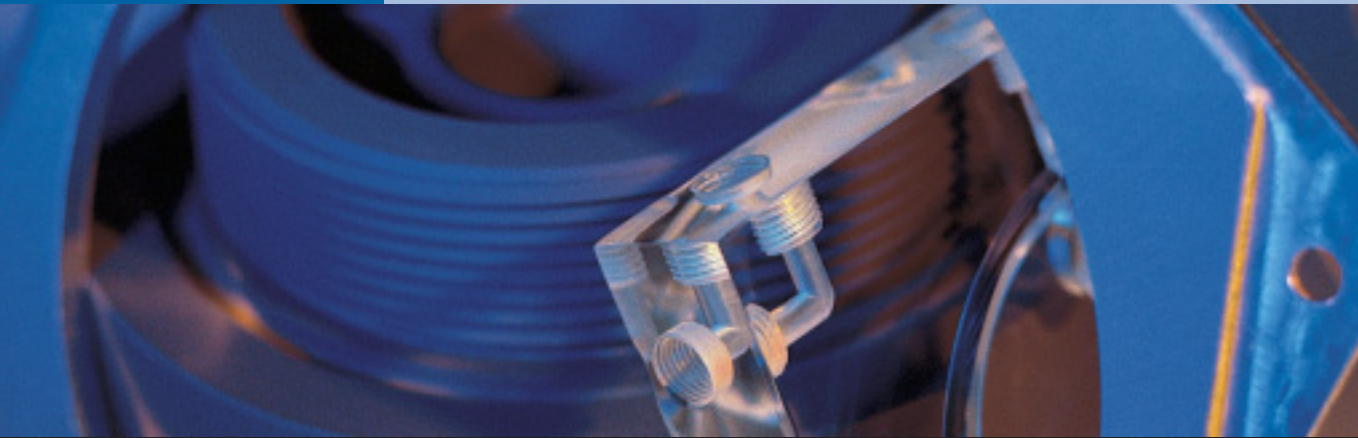
Dielectric Corporation is your single source, global solution for all plastic fabrication operations. Our customer-focused service allows us to provide help before, during and after the production run. Our experience enables us to develop solutions for manufacturers across all industries.

Dielectric believes that continuous improvement initiatives add value to all customer products and services. Our technical expertise drives us to seek ways to continually reduce the cost of engineered parts.

Take advantage of our capabilities and experience. Join the list of Dielectric Corporation customers who have been able to improve their products, productivity and bottom-line performance.

Call us today for a detailed quotation on your next project!

**Dielectric Corporation** has enjoyed continuous growth through **Customer-Focused Values** and a **Commitment to Excellence.**



#### **Dielectric Corporation's Promise of Excellence**

For nearly four decades, Dielectric Corporation remains committed to values that foster success for customers and employees. Quality, service, integrity, honesty and sound business practices are the cornerstones of our operation.

We are dedicated to delivering products and services of the highest value to customers, providing employees with opportunities for growth and enrichment and taking the necessary steps to maintain fiscal responsibility while proactively pursuing growth.

Through continuous improvement, staff commitment and adherence to global ISO quality guidelines,



Dielectric keeps its promise of excellence.



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