

# **Elizabeth Carbide Components**

**Custom Manufactured  
Tooling, Wear Parts  
and Specialty Components**

THE *Elizabeth* COMPANIES  
Elizabeth Carbide Components



# Quality in every Part - Guaranteed

**Elizabeth Carbide Components** is committed to providing the highest-quality products and services through our advanced inspection equipment and our documented Quality Assurance Program

## Quality Assurance Program:

- Material Traceability
- Material Certifications
- Heat Treat Certifications
- Process Certifications
- Equipment Calibration - Traceable to N.I.S.T.
- Incoming Material Inspection
- In Process Inspection
- Final Inspection
- Documentation
- Education
- Corrective Action

## Quality Assurance Benefits:

- ISO-9000 Compatible
- Reduces or Eliminates Incoming Inspection
- Complete Traceability of all Materials and Processes

## Quality Assurance Features:

- SPC Reports
- Final Inspection Reports





# Elizabeth Carbide Components

## Dependable Tooling, Wear Parts and Specialty Components

Elizabeth Carbide Components provides the highest-quality tungsten carbide, tool steels, ceramic wear parts, specialty components and other specialized parts to many industries throughout the world. We have built a strong reputation by working closely with our customers and providing quality products and services with on-time delivery since 1972.



Our people are experts in their field with a commitment to ongoing company-sponsored training. Highly skilled toolmakers are accustomed to holding tolerances of +/- .0001 and finishes up to 2 micro inches. Our prompt quotations, competitive pricing and dependable delivery are more reasons why Elizabeth Carbide Components are chosen by more companies every year.



ALL THREAD CUTTING EDGES MUST BE SHARP.

# Manufactured to Customer Drawing Specifications

**Elizabeth Carbide Components** meets your specifications with dedicated and experienced sales engineers, the finest grade materials, highly trained machinists, and the most modern precision equipment available today. All manufacturing is done per customer drawing specifications. Our experienced engineers can assist you with your design and material selection ensuring the best wear for your particular need.



## OIL & GAS FIELD WEAR PARTS AND SPECIALTY COMPONENTS:

### M.W.D. COMPONENTS:

- Mud Deflectors
- Valve Seats and Stems
- Rotors and Stators
- Erosion Sleeves
- Flow Restrictor Bearings
- Main Pulsar Components
- Solid Carbide Threaded Nozzles
- Ceramic Bore Sleeves, Orifices
- Poppet, Seat and Valve Components
- Seal Rings
- Ported Flow Cages
- Thrust Bearings

### HIGH PRESSURE PUMP COMPONENTS:

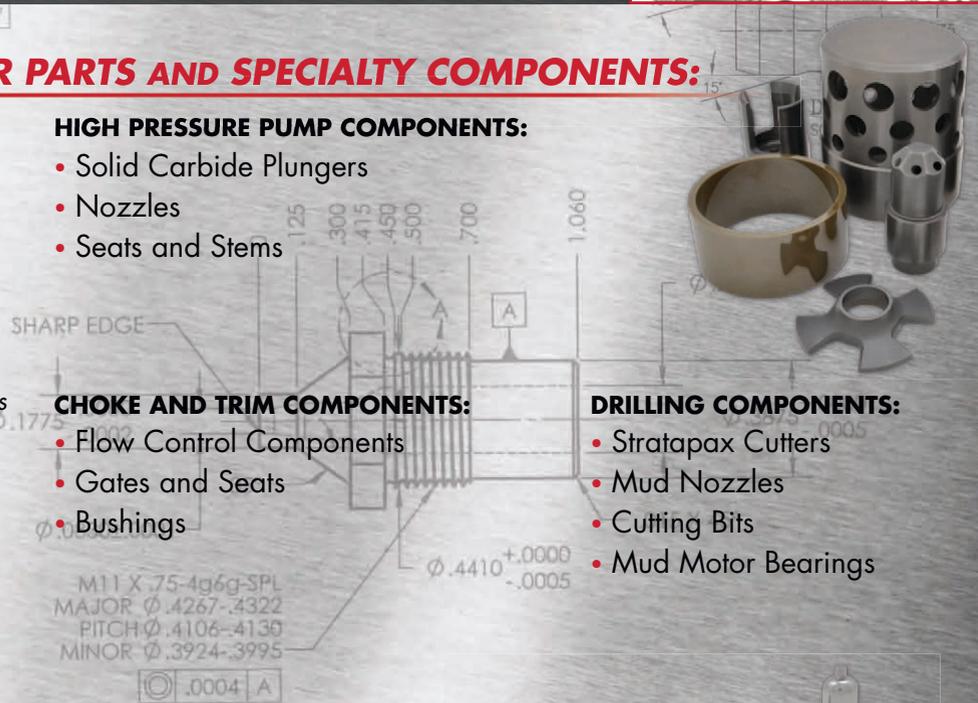
- Solid Carbide Plungers
- Nozzles
- Seats and Stems

### CHOKES AND TRIM COMPONENTS:

- Flow Control Components
- Gates and Seats
- Bushings

### DRILLING COMPONENTS:

- Stratapax Cutters
- Mud Nozzles
- Cutting Bits
- Mud Motor Bearings



## TOOLING:

- Can Tooling
- Draw Punches
- Cut Edge Rings
- Forming Punches
- Shell Punches
- Curling Punches and Rings
- Compacting Dies, Punches and Core Rods
- Wire Forming Turckhead Rolls
- Curling Rolls
- Seaming Rolls
- Sizing Rolls
- Coil Winding Dies and Filament Dies
- Specialty Stamping Punches and Dies
- Beverage Crown Tooling



### INDUSTRIES SERVED:

Metal Forming  
Wire Draw and Forming  
Powdered Metal  
Extrusion  
Lid Making  
Stamping

Ceramic  
Carbide  
Lighting  
Can Making  
Battery  
Wire Flattening and Shaping





## WEAR PARTS AND SPECIALTY COMPONENTS:

- Bushings
- Bearings
- Seal Rings
- Pins
- Shafts
- Plungers
- Nozzles
- Valve Seats and Stems
- Oil Field Related Wear Parts and Components
- Wear Plates
- Machine Parts
- High Pressure Pump Components  
*Plungers, Nozzles, Seats & Stems*
- Wire Guides and Rolls
- Textile Feed Dogs, Presser Feet and Knives



### ROLLS:

- Curling
- Flattening
- Deburring
- Seaming
- Turkshead

### KNIVES AND BLADES:

- Slitting
- Shearing
- Chopping
- Textile Rotary and Stationary



## Grinding, Machining and EDM Capabilities

**Elizabeth Carbide Components has an excellent reputation as a quality source for Grinding, Machining and EDM of Tungsten Carbide, Ceramic and Tool Steels.**

O.D. Grinding to 12" in Diameter - CNC and Conventional  
 I.D. Grinding to 10" in Diameter - CNC and Conventional  
 Surface Grinding to 24" Long  
 Thread Grinding for Carbide, Ceramic and Tool Steel  
 Centerless Grinding  
 Wire and RAM E.D.M.  
 Honing - Horizontal and Vertical  
 Lapping and Polishing to 2 Micro Inches

Turning - CNC and Conventional  
 Milling - CNC and Conventional  
 Brazing

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**Elizabeth Carbide Components**

- Specialty Tungsten Carbide Wear Parts
- Oil & Gas Wear Parts and Specialty Components
- Tungsten Carbide, Tool Steels and Ceramic Tooling

**Elizabeth Carbide Components**

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**Part of Elizabeth Carbide Die Co., Inc.**  
eliz.com

We have dedicated ourselves to providing world-class quality wear parts, tooling and specialty parts to the Oil & Gas, Metal Forming and many other industries since 1972. We strive to achieve an unequalled level of customer service, satisfaction, communication and trust with our customers.

Our advanced technology is a result of identifying our customers needs, partnering with them and creating cost-effective solutions.