

# New Products

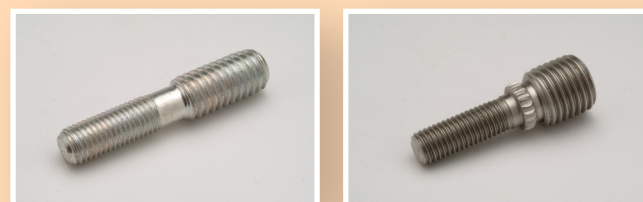
## From Standard to Complete Custom Manufacturing

### High Strength Fasteners

Mechanical fasteners are highly engineered machine parts. Dunham Products tradition of strength is built on our engineering and production capabilities to manufacture a wide range of standard or custom high strength threaded / unthreaded fasteners and small machined parts needed to meet our customer's most demanding requirements. DPI manufactured products include:

### Aircraft and Commercial Studs

Dunham Products began its life producing studs used in the manufacturing of aircraft fuel pumps. Today, we continue our tradition of strength producing studs for the aerospace automotive, power generation, mining and commercial industries.



- » Studs are QSLM (Qualified Suppliers List for Manufacturers) certified for Class 2 and 3 Threaded Fasteners.
- » Studs can be manufactured by Dunham Products to have threads that are rolled after heat treating, providing maximum thread strength for the most critical connections.
- » Dunham produces studs in the following configurations: Fully Threaded, Single or Double Ended, Tap End, Standard & Metric sizes.

### Bolts and Screws

Dunham Products manufactures a wide variety of standard and specialty high strength bolts and screws in the following head styles: Hex, Hex Flange, Round, Socket, Spline, T-Head, and Tamperproof Security.



### Nuts

Dunham Products manufactures a wide variety of standard and specialty nuts in the following styles: Barrel, Cap, Coupling, Hex, Hex Flange, Square, T Slot.

### Washers, Spacers, and Bushings

Dunham Products washers, spacers and bushings help to distribute load and reduce vibration, friction, and wear.



### Pins

Dunham Products manufactures a wide variety of close tolerance standard and custom made pins in the following styles: Headed, Headless, Straight, Shoulder, Threaded, Tapered, Knurled, Grooved.



### Materials

Dunham Products manufactures its products from a wide range of ferrous and non-ferrous materials (See below). We can also produce to DFARS & RoHS compliant requirements upon request.

#### Ferrous:

- » Alloy Steels
- » Carbon Steels
- » Monel®
- » Super Alloys
- » Stainless Steel

#### Non-Ferrous:

- » Aluminum
- » Brass
- » Bronze
- » Copper
- » Titanium



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ISO 9001:2015 CERTIFIED

AEROSPACE & COMMERCIAL THREADED / NON-THREADED HIGH-STRENGTH FASTENERS

COMPLETE CUSTOM PART MANUFACTURING / RAPID PROTOTYPING

CNC TURNING / MILLING

AUTOMATIC SCREW MACHINING

SWISS TURNING

CENTERLESS GRINDING

PRECISION THREAD ROLLING - QSLM CLASS 2 & 3 THREAD CERTIFIED

DRILLING, MILLING, TAPPING, KNURLING AND BROACHING

SMALL BUSINESS ASSOC. (SBA) CERTIFIED

SAM.GOV REGISTERED

CAGE CODE: 1B450

NAICS CODES: 332710, 332721, 332722

NSN CODES: 3040, 5305, 5306, 5307, 5310, 5315, 5342, 5365



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## Dunham Products is Built on a Tradition of Strength.

Since 1946, Dunham Products has built its reputation on a tradition of strength, and that strength is built around our commitment to product quality and customer satisfaction. Whether we are fully manufacturing, CNC machining, centerless grinding, thread rolling, knurling, drilling or tapping, our goal is to deliver uncompromised product quality and value to each and every order for each and every customer.

### Strength at Dunham Products means...

**Quality** – As an ISO 9001:2015 certified manufacturer, we produce the highest quality threaded and unthreaded high strength fasteners and small machined parts servicing a wide range of industries. PPAP, S.P.C. charts, in-process, and final inspection reports are incorporated into our process control as required.

**Customer Satisfaction** – DPI operates under one very simple principle: give the customer more than they expect by going the extra distance to exceed their expectations.

**Flexibility** – Dunham Products is small enough to provide the service and personal attention to detail required to quickly adjust to the ever changing needs of our customers; yet large enough to provide the technical expertise, and manufacturing capabilities and efficiencies of a large company.

**Versatility** – Whether manufacturing new parts from raw material or modifying a standard part into a custom product, DPI has the ability to handle any and all of your fastener and small part needs.

**Reputation** – Along with our unwavering commitment to product quality and customer service, DPI is known in the industry for providing inventive and innovative mechanical, production and engineering fastener / product solutions for our customers.

**Growth** – From our humble beginnings in a cramped two car garage to our current, modern 40,000 square foot facility, DPI continues to grow in our ability to support our customer's needs through ongoing plant and equipment upgrades. As technology changes, so does Dunham Products.

### It's the Dunham Way!



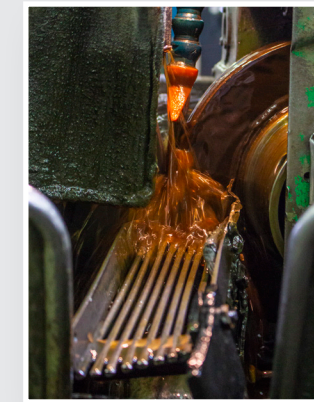
## Value Added Services



### Centerless Grinding

Centerless grinding is the precision way to grind a diameter. The component being machined is supported on its own outer diameter by a work blade located between a high speed grinding wheel and a slower speed, smaller diameter regulating wheel.

Centerless grinding is even more precise than CNC machining in creating precise roundness, surface finish and dimensional tolerances that are among the best possible and can improve the roundness of out-of-round parts.



### CNC Machined Parts / Prototyping

Dunham Products tradition of strength lies with the abilities of our highly skilled CNC Machining Team to manufacture, from start to finish, our customers most complex parts with faster, lower cost CNC Prototyping.

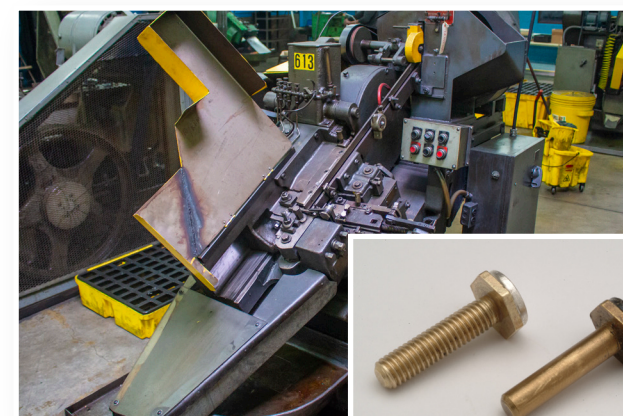
#### DPI's manufacturing capabilities include:

- » Swiss Turning, CNC Milling / Turning & Automatic Screw Machining.
- » All sublet processing (I.E. plating, heat treat, anodizing, inspection) is sent to an ISO certified source.
- » Material and special process certifications available upon request.



Concentricity is held to .0005 T.I.R., diameter held to .0001" and roundness held to .0002 accuracy.

Dunham Products has the expertise, tools and machines to handle the following types of centerless grinding operations: Form Grinding, Straight (In-feed) Grinding, Taper Grinding, Step Grinding, Thru-Feed Grinding.



### Thread Rolling

Dunham Products tradition of strength comes from our ability to provide superior thread rolling and re-rolling to any new, modified or thread damaged fastener.

DPI is QSLM (Qualified Suppliers List for Manufacturers) certified for Class 2 and 3 Threaded Fasteners.

Rolled threads produce the strongest type of thread because it does not remove material but displaces the material with hardened steel dies.

DPI can roll single or multiple lead, standard inch, metric or special form threads in both left and right hand orientations.



## Value Added Services (continued)

### Modification & Repairs of Standard Products

Dunham Products tradition of strength comes from our ability to help our customers save cost by modifying an existing fastener into a special custom part to meet their specific requirements. DPI has a full time staff of skilled machinists, programmers and operators dedicated to handling any type of simple or complex fastener modification or repair, including thread rolling, re-rolling, centerless grinding, drilling, tapping, milling, slotting, knurling and more.

### Drilling



Where extreme mechanical reliability is critical, Dunham Products can keep your connections strong with fastener drilling.

DPI can offer through, blind, cross, core, pointed, spanner and flat bottom drilling with automatic feeders and flow and depth testing.



### Tapping

Tapping is the process of producing internal threads using a tool (tap) that has teeth on its periphery to cut threads in a predrilled hole.

Dunham Products keeps your connections strong with advanced tapping methods and machinery.

### Milling

Milling is a material removal process which can create a variety of features on a part by cutting away unwanted material.

Dunham Products uses milling to produce parts that are not axially symmetric and have many features, such as holes, slots, pockets, keyways and surface contours.

### Broaching

Broaching uses a toothed tool to remove material, and is used when precision is required for unusual or irregular shapes.

DPI can broach circular and non-round holes, keyways, splines, as well as flat surfaces on small and medium sized castings, forgings, and screw machine parts.

### Knurling

Knurling is a thread rolling process that produces a raised diameter on the part.

A knurled surface allows for a better grip of the part compared to a smooth finished surface. Knurling can be used to raise a worn

diameter. Knurling is utilized to create a pressed fit into a controlled diameter.

Dunham Products has the expertise, tools and machines to handle the following knurling operations: Straight Knurl, Diamond Knurl, Diagonal Knurl.

