



Four Slide Products has been a joy to work with from our first contact...
— Duane D. Riha, Legacy Technologies

Shear Cut Tubular Parts

At Four Slide Products, our unique shear cut process allows us to produce small tubular parts with minimal OD/ID distortion and no loss or scrap between cuts. Our services include tube cutting, bending, end forming, and finishing. We also source all workable alloys, including stainless steel hypodermic tubing, brass, copper, and all exotic metals.

From custom hypodermic tubes and cannulas, to metal spacers and bushings, Four Slide Products will design and fabricate shear cut tubular parts to your exact specifications, as small as 0.010" in length, up to 18", with diameters of 0.015" to 0.625" and tolerances to ± 0.001 ".

Fast, Free Quote
from our expert engineers

We have more than 25 years of experience shear cutting and bending small tubes to our customers' precise specifications.

The Shear Cut Method

Four Slide Products has more than 25 years of experience manufacturing small tubular parts for the Electronics, Medical, Aerospace, Automotive, HVAC, Energy, and Nuclear sectors. Our innovative **shear cut** method yields clean OD and ID formations with square cut edges and no residual burring or roughness. This process saves our customers up to 50% on material costs by eliminating waste between cuts. In addition, most bending, end forming, and machining can be accomplished during the tube cut-off process, which further reduces handling and tooling costs.

[Return to Top](#)

Shear Cut Machinery

Our specialized shear cutting machines are fast and efficient and are able to cut, bend, and end form tube parts as short as 0.010" in length, up to 18", to tolerances of ± 0.001 " with minimal OD/ID distortion. Cutting options include Supported Shear Cutting, which incorporates both internal and external support during the tube cutting process, Electro-Chemical Machining (ECM), Electro-Chemical Grinding (ECG), and Electrical Discharge Machining (EDM).

[Return to Top](#)

Alloys and End Formations

We specialize in contract shear tube cutting of all workable alloys, including **stainless steel hypodermic tubing** in gauges 3 to 25. Tube end formations include axial knurl, angle cut, bulged, chamfered id, corseted, diamond knurl, expanded-end, flange, flare, flatten center, inside diameter radius (radius ID), notch or slot, outside diameter radius (radius OD), radius id reduction, reduced-end (swaging), regular bevel, rounded-end, straight cut threaded, and more.

[Return to Top](#)

Small Tube Bending and Finishing

We're able to accomplish single radius bends as tight as three times the OD center line radius with zero kinking and no ovality. Finishing options include tumbling, deburring, coating, ultrasonic, polish, anneal, plate, Harperize, passivation, and grit, sand, or bead blasting.

Custom Shear Cut Tubular Parts
Reduce Materials Cost By Up to 50%

Get A Free Quote

Just tell us what you need...

Tube Dimensions: ☒ Gauge ☐ OD / ID

Gauge:

Length:

Alloy:

Quantity:

Ctrl+Click to select up to 3 quantities for quote.

Custom Quantity:

Request a Quote
Quality You Can Trust
For Over 25 Years

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In a rush? Call us now:
(610) 898-3956



[Return to Top](#)

Metal Spacers & Bushings

We fabricate metal spacers and bushings for stand-offs, sleeves, axles, pins, distance bushings, and custom parts from all workable alloys, including stainless steel, brass, copper, and all exotic metals, up to 0.625" OD x 0.040" wall thickness with tolerance to $\pm 0.001"$.

[Return to Top](#)

Engineering Support

Our [engineering support team](#) is available to help you with alloy selection, tube sizing, bending, and secondary operations. From designing prototypes to billion-part runs, we offer reliable tube cutting services, whether you choose to have Four Slide Products source the material for you or supply your own. Use the form above to request a quote or call us directly at (610) 898-3956 to get started.

[Return to Top](#)

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