

SHAPED TUBING

New World of Design Opportunities

OUR SPECIAL SHAPE CAPABILITIES CREATE SPECIAL ADVANTAGES FOR YOU



Plymouth cold drawn seamless near-net shaped tubing enables manufacturers to solve tough technical challenges and attain physical and mechanical properties that would be difficult to achieve with other methods, such as machining from bar. Shaped tubing is widely used by manufacturers in automotive, aerospace, construction, drilling, medical equipment, and many other industries. Plymouth offers both specialty shapes engineered per your specifications as well as standard shapes such as square, hex, triangle, and streamline.

Shape possibilities are virtually endless, limited primarily by the maximum OD of 5"



Size Range

- OD: 0.3125" – 5.000" (6.35 -127 mm)
- Wall: 0.020" – 0.500" (0.5508 mm – 12.700 mm)
- Lengths depending on application; short lengths available

Grades

- US Grades in Series 1000, 4000, 6000, 8000, 9000

Shapes

Symmetrical and non-symmetrical shapes including rounds, squares, rectangles, triangles, hexagons, and customer OD/ID combinations. The possibilities are virtually unlimited.

- Hexagons and Octagons, Across Flats: 0.3125" – 3.625"
- Rectangles and Squares: 0.625" per side min, 5.000" max
- Unique Shapes: Greater than 0.625"

Tolerances

- Dimensional Tolerance, Standard: +/- 0.005
- Fillet and Radii Tolerance, Standard: 0.015" in Carbon
- Ratio of Height vs. Width: 1 : 1.16 (max)

OEMs and metal fabricators currently specify Plymouth shaped tubing for diverse applications as:

APPLICATIONS

- Automotive shafts and steering columns
- Tools and tool handles
- Torque wrenches and wrench extensions
- Telescoping components
- Rebar and direct drilling couplers
- Components for industrial and medical equipment

ECONOMIC ADVANTAGES

Minimize cutting tools while reducing scrap and material waste, machining time and number of operations.

QUALITY BENEFITS

- Industry's Tightest Tolerances
- Controlled Mechanical Properties
- Improved Surface Quality
- Superior Flatness and Straightness



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