CUSTOM
SHAPED WIRE

QIUSUO® - Customizing All Types of Custom Shaped Wire Products for Your Projects



PRODUCT SELECTION & SPECIFICATION GUIDE

QIUSUO

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CUSTOM SHAPED WIRE

for Precision Components & Custom Fabrication

We supply shaped wire in a wide range of common cross-sectional shapes, including square, rectangular, hexagonal, oval, D-shaped, channel-shaped and other profiles. Custom symmetrical and asymmetrical shapes can also be manufactured according to drawings or, where feasible, physical samples to meet specific application and subsequent fabrication requirements.

Key Features



Custom Cross-Sectional Profiles

Symmetrical and asymmetrical profiles can be manufactured according to drawings and, where feasible, physical samples.



Near-Net-Shape Profiles

Profiles can be produced close to the required final geometry, helping reduce subsequent machining and material removal.



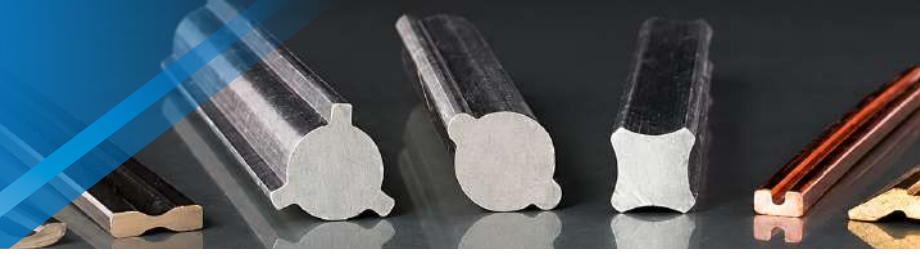
Controlled Profile Details

Grooves, shoulders, radii, chamfers and other functional features can be incorporated according to the drawing.



Consistent Cross-Sectional Geometry

Profile dimensions and key features are controlled along the wire length to support further forming, assembly or machining.



Representative Cross-Sectional Profiles

The profiles shown below are representative examples. Other symmetrical and asymmetrical cross sections can be manufactured according to drawings.



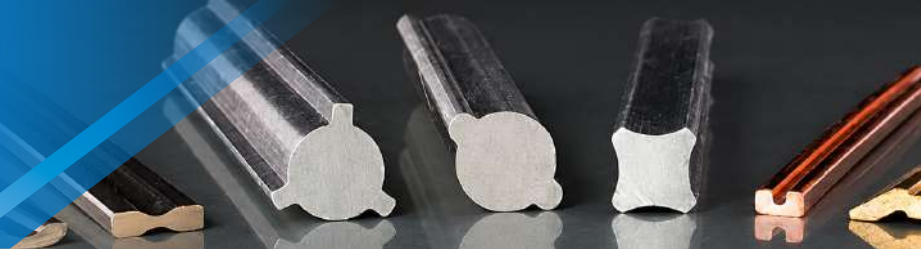
Typical Material Options

Material availability depends on profile geometry, dimensions, condition and order quantity.

Material Group	Typical Options
Stainless Steel	201, 301, 302, 303, 304, 304L, 316, 316L, 321, 347, 430
Duplex Stainless Steel	2205, 2507
Carbon and Spring Steel	Low-carbon steel, high-carbon steel, C67, C75, 1070, 1075, 1095
Nickel and Nickel Alloys	Nickel 200, Nickel 201, Alloy 400, Alloy 600, Alloy 625, Alloy 718, Alloy C-276, Alloy C-22
Copper and Copper Alloys	Copper, brass, bronze, phosphor bronze
Titanium	Grade 1, Grade 2, Grade 5
Other Alloys	Aluminum and other alloys upon request

Customization Details

Parameter	Available Options
Cross-Section	Standard or custom profiles made to drawing
Dimensions	Width, height and key feature dimensions according to drawing
Corners & Edges	Minimal-radius, rounded, chamfered or drawing-specific
Tolerance	Confirmed after drawing and production feasibility review
Material Condition	Annealed, cold-drawn or other specified conditions, depending on the material and profile requirements.
Supply Form	Coils, spools, straight lengths or cut-to-length pieces
Surface Condition	Bright, cleaned, polished or as specified

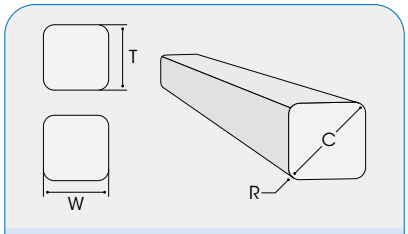


Typical Profile Drawing Details

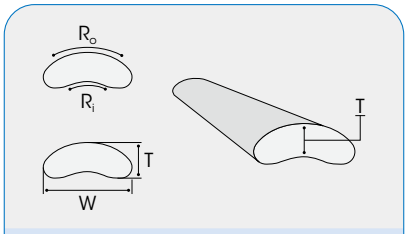
Profile drawings may specify width, height or thickness, corner radii, angles, groove dimensions, and other critical cross-sectional features. Final dimensions and tolerances are confirmed after technical review of the drawing.

Dimensional Abbreviations

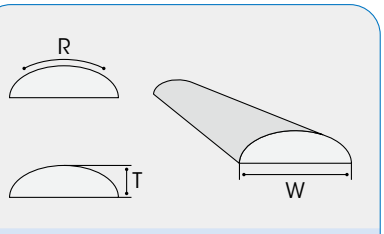
W = Width; T = Thickness; R = Radius; R_o = Outer Radius; R_i = Inner Radius; Tc = Center Thickness; A = Angle; R_{maj} = Major Radius; R_{min} = Minor Radius; C = Corner-to-Corner.



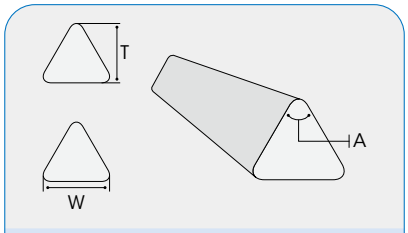
Square Profile



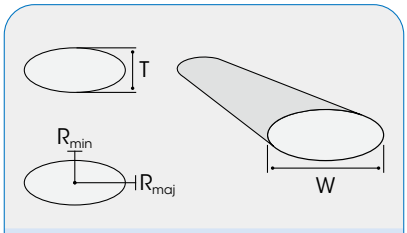
D-Shaped Profile



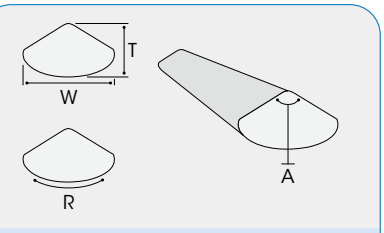
Arc-Shaped Profile



Triangular Profile



Oval Profile



Pie Profile

Applications

Precision Mechanical Components

Custom profiles for components requiring controlled fit and cross-sectional geometry.

Guides & Bearing Rails

Profiled wire for guiding, positioning and linear-motion components.

Springs, Clips & Retaining Components

Shaped profiles used for spring, clip, pin and retaining applications.

Seals & Gaskets

Profile geometries for sealing and contact applications.

Spacer Bars & Assembly Components

Custom profiles for spacing, support and engineered assemblies.

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