



## PRODUCT CATEGORIES

Precision axles, shafts, and cylinders for industrial OEMs

Give us your complex, multi-step, and integrated manufacturing challenges. Our engineering and processing experts will enhance your product and business performance. As many of our long-term customers say – *Value Engineering at U.S. Axle assures improved delivery, performance, reliability, and competitive costs.*

### Tubes and Cylinders

High-precision, fine-surface finishes, concentricities, and deep geometries.



#### General use

Hydraulic Cylinders, Rock Drills, Drill Rods, Oil and Gas applications.

Large, highly finished threads and undercutting.

Welded assembly.

Deep hole drilling, trepanning, thin wall honing.

**Lengths** up to 80" (2050 mm)

**Inner diameters** 1/4" (6 mm) – 12" (305 mm)

### Flanged Axles

Large diameter flanges for tough applications.



#### General use

Off-Highway, Construction, Forestry, and Agricultural vehicles.

Precision finished bearing journals and seal diameters.

Deep case induction hardened strength where critical.

**Lengths** up to 62" (1580 mm)

**Diameters** up to 24" (610 mm)

# U.S.AXLE

*Our value engineering assures improved delivery, performance, reliability, and competitive costs.*

## Straight Axles, Pins, and Shafts

Engineered to withstand tough drivetrain applications.



### General use

Off-Highway, Construction, Forestry, and Agricultural vehicles.  
Specialties products: Aircraft arrestors.

Deep case depth induction hardened.

Hobbed or rolled splines and gear forms.

Precision finished bearing journals and seal diameters.

**Lengths** 8" (203 mm) – 140" (3556 mm)

**Diameters** 1.5" (38 mm) – 12" (304.8 mm)

## Precision Axles and Shafts

Tight tolerance. High concentricity.  
Dynamic performance.



### General use

Electric motors, pumps, printing presses, material handling.

Precision grinding straight and tapered diameters and lengths to high tolerances and concentricities, keyways, precision true positions and geometry requirements.

Quality validation and reporting.

**Lengths** 8" (203 mm) – 140" (3556 mm)

**Diameters** 2" (50 mm) – 12" (304.8 mm)

Micro finishes to 16 micro (.5)



## Challenge us

If you have big ideas for the growth of your business, start with U.S. Axle — we take pride in our ability to produce challenging precision axles, shafts, and cylinders for our industry. Focused on performance, reliability, and value, U.S. Axle creates purpose-built solutions to help your company compete in the market.

Collaboration with U.S. Axle leads to long-lasting, mutually beneficial relationships for our customers — because we offer unmatched, personalized service and technical assistance.