Dana’s unique Nextrusion™ axle tube technology features a strong, lightweight design with an optimized cross-section to maximize strength-to-weight ratio.
Nextrusion™ Axle Tube Technology


Dana’s axle tube expertise ensures that OEMs have high-strength axle technologies with a lightweight design. This product offers a thicker wall for highly stressed and welded areas, reduced wall thickness for low-stressed areas, along with various external and internal shapes, including oval. These axle tubes also provide superior tuning for stiffness and weight. Our axle tube innovations help OEMs improve yield strength and fuel economy.

Next-generation cold extrusion for axle tubes

The Nextrusion™ cold extrusion process delivers a variable wall tubing with superior strength (up to 850 MPa without heat treatment) where it is needed, along with considerable weight savings (up to 25%) when compared to traditional manufacturing options.

To help accommodate specific customer needs, Dana’s axle tube technology offers a variety of tube forming options.

Multiple Outside Diameters

Variable Wall Thickness

Multiple Outside Diameters and Variable Wall Thickness

External Shapes

Internal Shapes

Lighter axle housings are smarter

• Full-float rear axle tubes
• Semi-float rear axle tubes
• Salisbury and Banjo axle configurations
• Non-driven and driven front axle tubes

Learn more today about our breakthrough Nextrusion™ axle tube technologies at http://www.dana.com/light-vehicle/products/driveline/axles/axle-tubes