



Steering

Product information | Technical data sheet

Jansen Steel Tubes and Mubea Precision Steel Tubes produce welded and welded-drawn precision steel tubes and profiles for steering systems made of standard materials as well as high-tensile materials.

Quality is paramount in steering applications and construction. Tight tolerances and very good reforming properties of the tubes ensure smooth component construction. The use of modern high-tensile materials allows for weight savings by reducing the wall thickness while still maintaining the component's strength.



Tube requirements

Excellent formability	
High torsional strength and durability	
Excellent welding properties	
High geometrical accuracy	
Excellent surface condition	

Material properties

Potential to reduce wall thickness

Homogeneous, fine-grain structure

High torsional strength and fatigue strength				
Excellent reforming properties				
Homogeneous strength properties and ductility				
Excellently suitable for welding				

Structure

in weld seam and basic material Minimised surface decarburisation of inner and outer surfaces (< 100 μm) Very good weld seam quality Very good reforming properties

Geometry

Minimised fluctuations in wall thickness and inner/outer diameter Minimised deviations in straightness Minimised deviations in concentricity and axial run-out Minimised eccentricity Specific tube end processing: sawn/brushed; chamfered,

completely processed/chamfered

Surface

Excellent surface condition Minimised surface flaws (adhesions, scratches, dents, etc.) Minimised corrosion protection, optionally specific corrosion protection

Materials & dimensions

Application	Tube standard	Steel grades	Delivery condition	Dimensions range mm
Steering shafts	✓ EN 10305-2	 ✓ E235 ✓ E355 ✓ 26MnB5 ✓ 34MnB5 ✓ 40MnCrB5 ★ 44MnB3 ★ 45MnB4 	✓ +C✓ +N	✓ OD 20 - 35 ✓ WT 1.5 - 3
Steering spindles		* AH1000 * AH1200		✓ OD 25 - 40 ✓ WT 2 - 4

Extract from achievable weight-savings

In validation

