



# Steering

# Product information | Technical data sheet

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

High torsional strength and fatigue strength
Excellent reforming properties
Homogeneous strength properties and ductility
Excellently suitable for welding
Potential to reduce wall thickness

#### Structure

Homogeneous, fine-grain structure				
n weld seam and basic material				
Ninimised surface decarburisation of				
nner and outer surfaces (< 50 μm)				
/ery good weld seam quality				
/ery 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	<ul> <li>E235</li> <li>E355</li> <li>26MnB5</li> <li>34MnB5</li> <li>40MnCrB5</li> <li>44MnB3</li> <li>45MnB4</li> </ul>	✓ +C ✓ +N	✓ OD 20 - 35 ✓ WT 1.5 - 3
Steering spindles		<ul><li>* AH1000</li><li>* AH1200</li></ul>		<ul> <li>OD 25 - 40</li> <li>WT 2 - 4</li> </ul>

# Extract from achievable weight-savings



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