



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

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	
in weld seam and basic material	
Minimised surface decarburisation of	
inner and outer surfaces (< 50 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

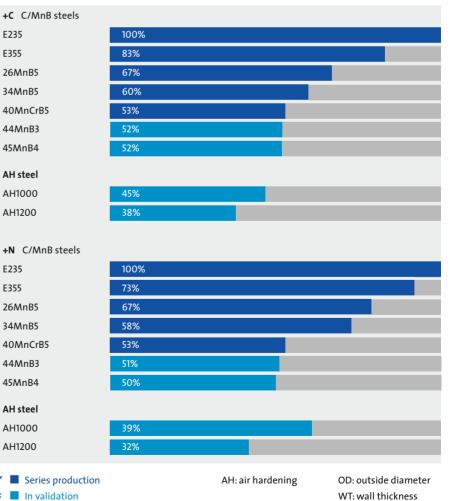
Surface

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



3078740 | Product information_Steering | EN | 04.2024