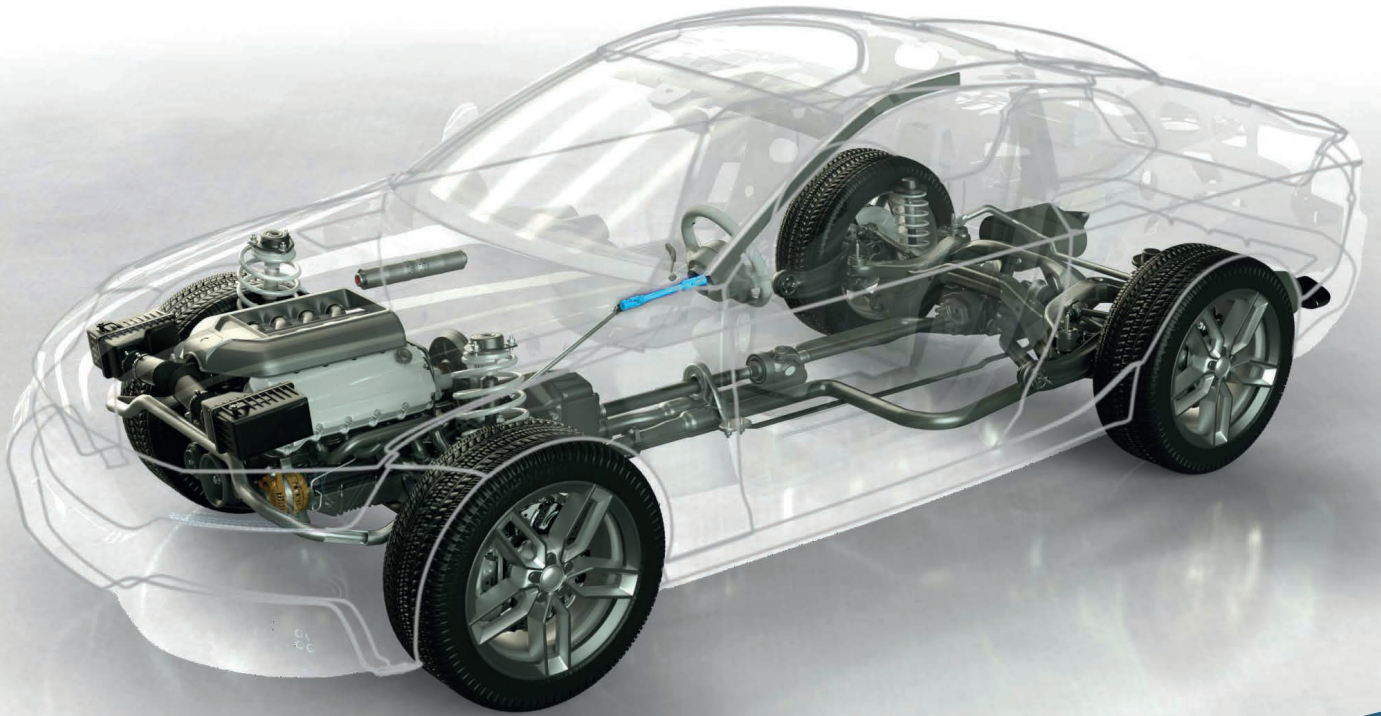


Jansen produces welded and welded-drawn precision steel tubes and profiles for steering systems made of standard materials as well as high-tensile materials.



# Steering

[Product information](#) | [Technical data sheet](#)

The applications in steering construction are very critical to quality. The tubes' tight tolerances and very good reshaping

properties ensure a smooth component production. The use of modern high-tensile materials allows further weight savings by reducing the wall thickness while 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 (< 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

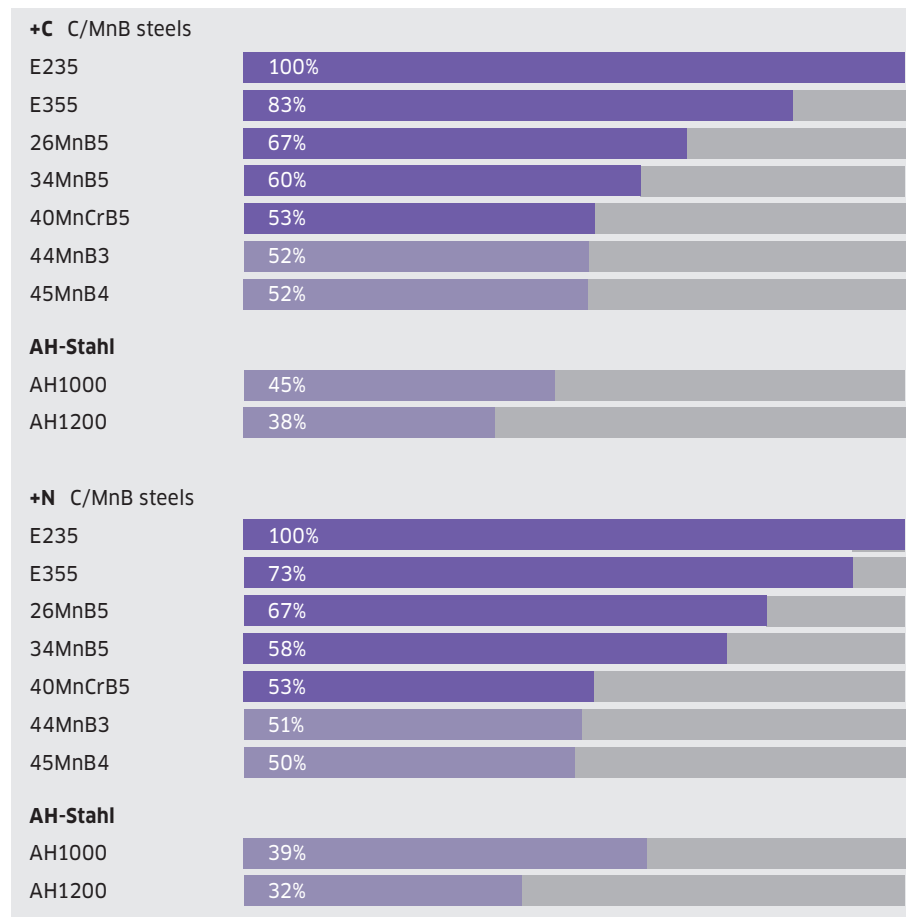
## Surface

- 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	✓ +C ✓ +N	✓ OD 20 - 35 ✓ WT 1.5 - 3
		✓ E355		
		✓ 26MnB5		
		✓ 34MnB5		
		✓ 40MnCrB5		
		* 44MnB3		
* 45MnB4				
Steering spindles		* AH1000		✓ OD 25 - 40
		* AH1200		✓ WT 2 - 4

## Extract from achievable weight-savings



✓ ■ Series production at Jansen  
\* ■ In validation at Jansen

AH: air hardening

OD: outside diameter  
WT: wall thickness