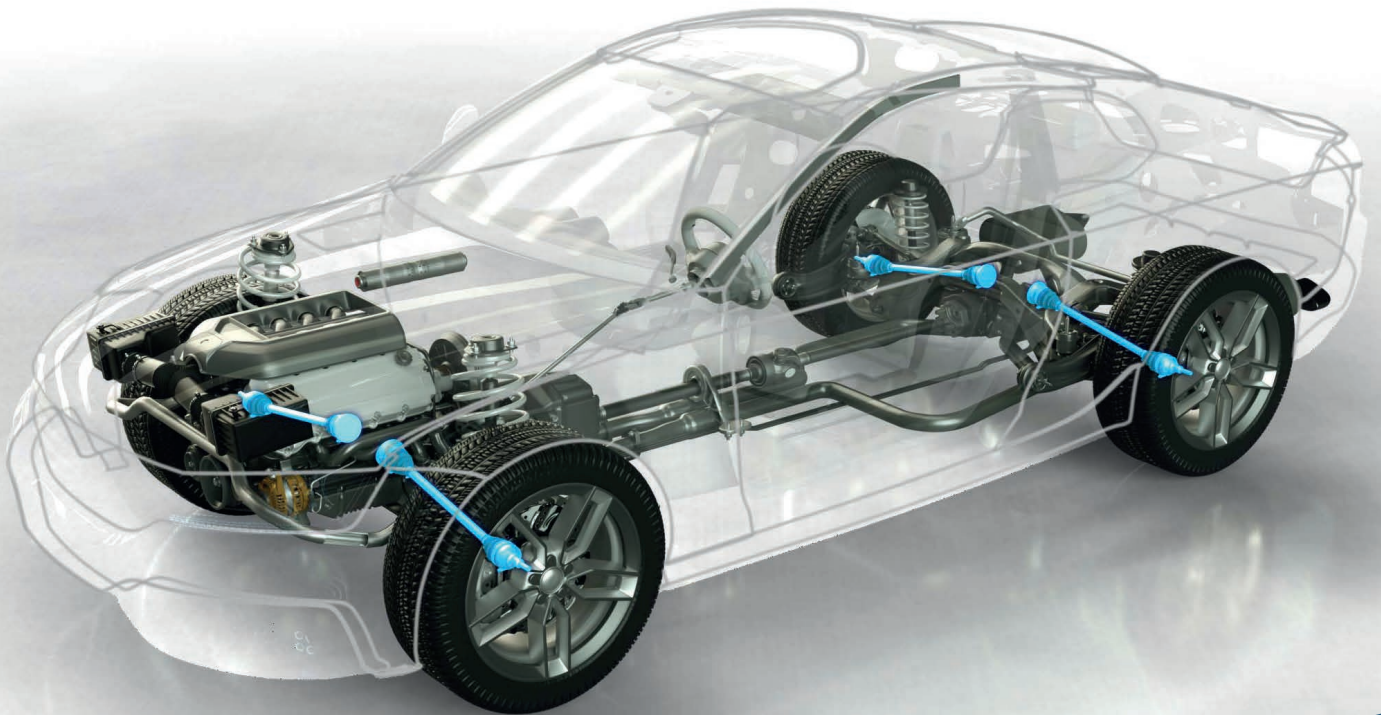


Jansen produces welded-drawn precision steel tubes made of high-tensile materials for three-part drive shafts.



Drive shaft 3-part

Product information | Technical data sheet

Tubes for the 3-part drive shafts are welded to other components to form one unit. Consequently, there are stringent

requirements to dimensional tolerance, roundness, end processing qualities and the tubes' welding characteristics. The trend of light-weight design is increasingly demanding high-tensile materials.





Tube requirements

High strength values
(elongation at break, tensile strength)

High torsional strength and durability

Very good welding properties

High geometrical accuracy
(eccentricity, roundness)

Excellent surface condition

Material properties

High torsional strength and fatigue strength

Homogeneous strength properties and ductility

Very good suitability 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)

Excellent weld seam quality

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

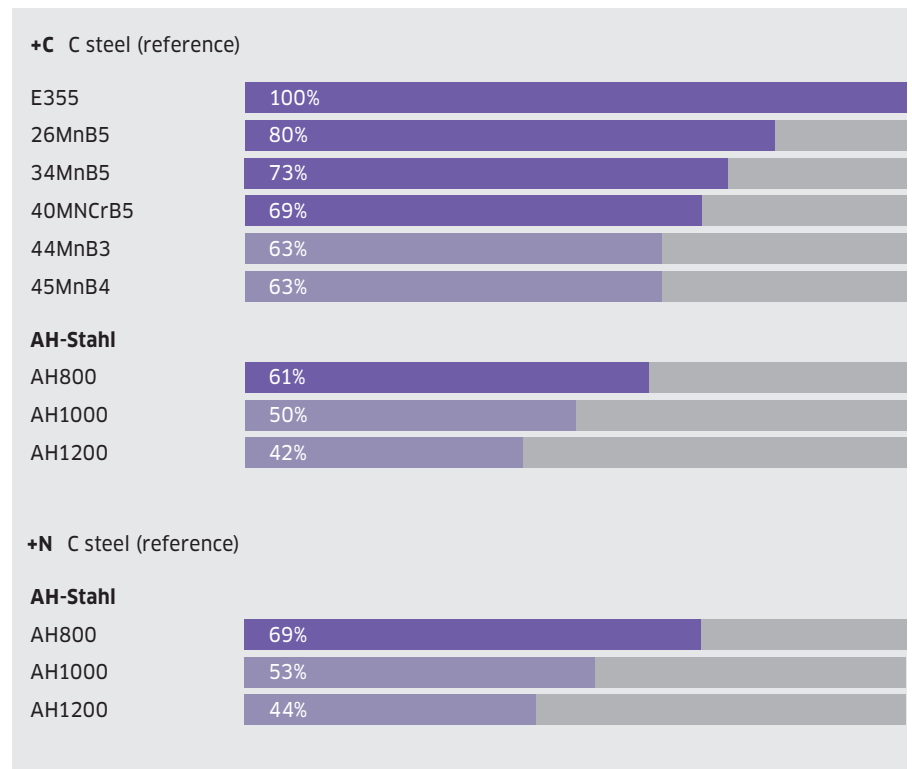
Minimised surface flaws
(adhesions, scratches, dents, etc.)

Minimised corrosion protection,
optionally specific corrosion protection

Materials & dimensions

Application	Tube standard	Steel grades	Delivery condition	Dimensions range mm
Drive shaft (3-part)	✓ EN 10305-2	✓ E355		✓ OD 22 - 35 ✓ WT 2.5 - 5.5
		✓ 26MnB5		
		✓ 34MnB5	✓ +C	
		✓ 40MnCrB5		
		* 44MnB3		
		* 45MnB4		
		✓ AH800	✓ +C	
		* AH1000	✓ +N	
		* AH1200		

Extract from achievable weight-savings



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

AH: air hardening

OD: outside diameter
WT: wall thickness