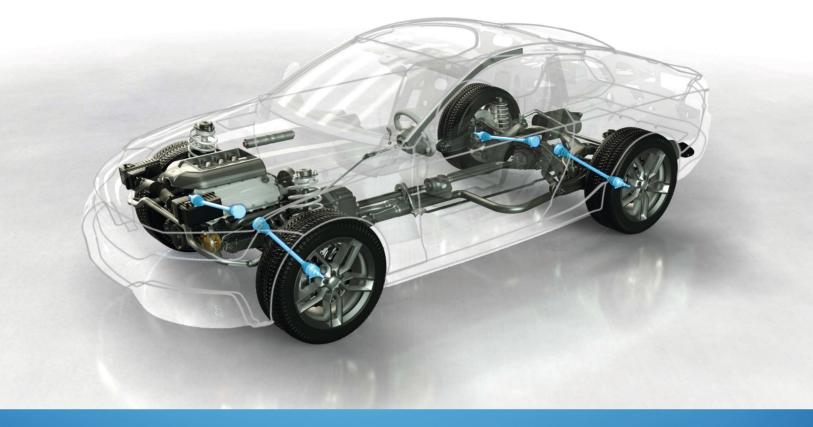
### Mubea PRECISION STEEL TUBES



## Drive shaft 3-part

#### Product information | Technical data sheet

Mubea Precision Steel Tubes produce welded-drawn precision steel tubes made of high-tensile materials for three-part drive shafts.

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 standard

✓ EN 10305-2

Materials & dimensions

Application

Drive shaft

(3-part)

#### **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

Homogeneous, fine-grain structure

inner and outer surfaces (< 50 μm)

Minimised fluctuations in wall thickness and

Minimised deviations in straightness

Minimised deviations in concentricity

Excellent weld seam quality

in weld seam and basic material Minimised surface decarburisation of

High torsional strength and fatigue strength
Homogeneous strength properties and ductility
Very good suitability for welding
Potential to reduce wall thickness

#### Structure

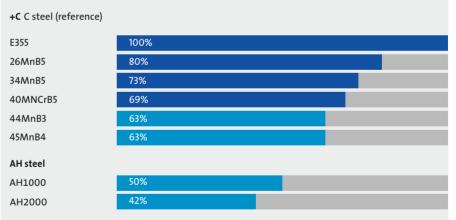
Geometry

inner/outer diameter

and axial run-out

Minimised eccentricity Specific tube end processing: sawn/brushed; chamfered, completely processed/chamfered

_	xtract from achievable weight-savings	



Steel grades

E355
26MnB5

✓ 34MnB5

40MnCrB5

44MnB3

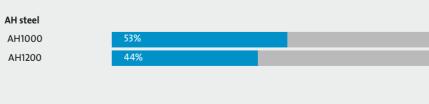
45MnB4

AH1000

AH1200

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#### +N C steel (reference)



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

Series production
In validation

AH: air hardening

OD: outside diameter WT: wall thickness

**Dimensions range** 

OD 22 - 60

WT 2.5 - 6.5

Delivery condition

✓ +C

🖌 +N