Mubea PRECISION STEEL TUBES



Camshaft assembled

Product information | Technical data sheet

Jansen Steel Tubes and Mubea Precision Steel Tubes produce welded-drawn precision steel tubes made of standard materials and high-tensile steel grades for assembled camshafts.

For the manufacturers of camshafts, accurate concentricity, high degrees of roundness and straightness as well as stringent dimensional tolerances are important aspects in the selection of tubes. Low levels of surface decarburisation allow a partial hardening. As a result of the trend towards lightwei-

ght design, high-tensile materials are increasingly in demand. The use of modern high-tensile materials allows further weight savings by reducing the wall thickness while maintaining the comparable physical properties.



Tube requirements

High levels of tensile strength Homogeneous strength properties

Potential for reduced wall thickness

High strength values (elongation at break, tensile strength)
High torsional strength and reverse bending strength
High geometrical accuracy
Excellent surface condition
High levels of strength and hardness after Q+T
Material properties
High torsional strength and durability

Materials & dimensions

Application	Tube standard	Steel grades	Delivery condition	Dimensions range mm
Camshaft	✔ EN 10305-2	 E355 26MnB5 34MnB5 40MnCrB5 44MnB3 45MnB4 AH1000 AH1200 	✔ +C	 OD 22 - 60 WT 2.5 - 6.5 also available as TDT tube with variable wall thickness

Structure

and ductility

Homogeneous, fine-grain structure in weld seam and basic material	Extract from achievable weight covings			
Minimised surface decarburisation of	Extract from achievable weight-savings			
inner and outer surfaces (< 50 μm)				
Very good weld seam quality	+C C- / MnB- / MnCrB steels			

Geometry

Surface

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

Minimised corrosion protection,

optionally specific corrosion protection

Minimised fluctuations in wall thickness and inner/outer diameter
Low levels of deviation from straightness
Minimised deviations in concentricity and axial run-out
Minimised eccentricity
Specific tube end processing: sawn/brushed; chamfered, completely processed/chamfered

