



Reinforcement tube

Product information | Technical data sheet

Jansen Steel Tubes and Mubea Precision Steel Tubes produce welded precision steel tubes and profiles used as structural reinforcements in the automotive industry.

High-tensile materials are used for the tructural reinforcement tubes. Applications within this automotive industry segment are very sensitive to quality and component failure in the event of an undesired deformation of the component may have serious consequences. The tight production

tolerances guarantee efficient and thus cost-effective tube processing during component production. The use of new modern air-hardening materials allows a significant reduction of the work involved by eliminating the tempering process, and thus a significant reduction in costs.



Tube requirements

Excellent formability

High levels of fatigue strength

High levels of strength and hardness
according to Q+T
excellent surface conditions

Material properties

High levels of fatigue strength

Excellent reforming properties

Excellent hardening properties

Homogeneous strength properties
and ductility

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 concentricity and axial run-out

Minimised eccentricity

Tube end processing: sawn/brushed; 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
Reinforcement tube	✓ EN 10305-2✓ EN 10305-3	 ✓ E355 ✓ 26MnB55 ✓ 34MnB5 ✓ 40MnCrB5 ★ 44MnB3 ★ 45MnB4 ✓ 5700 ★ AH1000 ★ AH1200 ★ OP1000 ★ CP800 	✓ +N✓ +CR1	✓ AD 35 - 80 ✓ WD 2 - 6.5

Extract from achievable weight-savings



