

General Info



ID	#17
Product Name	Industrial Applications And Custom Shaped Steel Profiles
Slogan	With the quality and dedication to meet the needs of our business partners in the best way
Description	We are ready to produce according to different types of standards and/or customers' specialized technical requirements. Steel grades, wall thickness, dimensions, and tolerances may vary according to the requirements of the final product. Different pre-coated raw materials and final coating methods are available upon request.
Category	Automotive and Industrial Applications

Product Info

About

Borusan Mannesmann manufactures custom shaped profiles with the highest degree of functionality according to customer expectations. Custom designed profiles are used in a variety of applications for different sectors such as automotive, construction, agricultural machinery, towel rails, furniture etc...

We supply profiles with most accurate tolerances to meet customers' requirements and drawings. Borusan Mannesmann has the knowledge to select the most suitable forming technologies to meet specific

Technologies for Special Shape Profiles

- Direct Roll Forming
- HFW + Cold Forming
- Forming by Cold Drawing

Further Processing

- Length Cutting
- Bending
- Hole Drilling
- Online Die Stamping

Tests & Inspections

- Visual Examination
- Dimensional Inspection
- Metallographic Inspection
- Tensile Test
- Chemical Analysis
- Flattening Test
- Hardness Testing (HV, HRB, HRC)
- Eddy Current Testing
- 3D Scanning

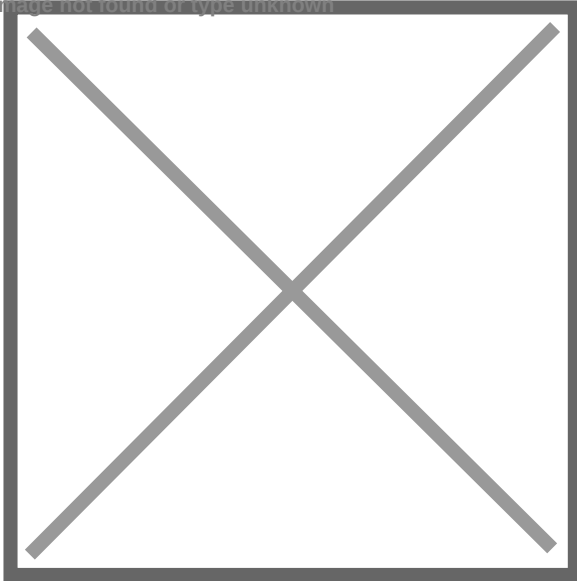
Inspection Documents

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|---|
| <ul style="list-style-type: none">• MTC (Mill Test Certificates) acc. to EN 10204 2.2, 3.1 |
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Production Range

Welded Cold Drawn Tubes for Precision Applications

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Cold Drawn Welded Steel Tubes (EN 10305-2)

Please contact our sales department for intermediate sizes.

Delivery Conditions:

- + C (BK) = Cold finished/hard
- + LC (BKW) = Cold finished/soft
- + N (NBK) = Normalized
- + SR (BKS) = Cold finished and stress relieved
- + A (GBK) = Annealed

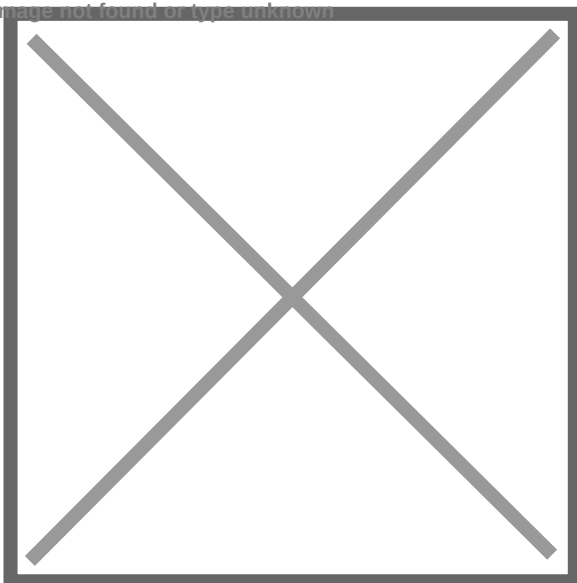
Standard Norms: TS EN 10305-2, UNI 7946, BS 6323 Part 6, NFA 49-341, ASTM A 513

Steel Grades mainly used: RSt 34-2, RSt 37-2, St 44-2, St 52-3

(E 195) (E 235) (E 275) (E 355)

Welded Cold Sized Tubes for Precision Applications

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Welded Cold Sized Tubes (EN 10305-3)

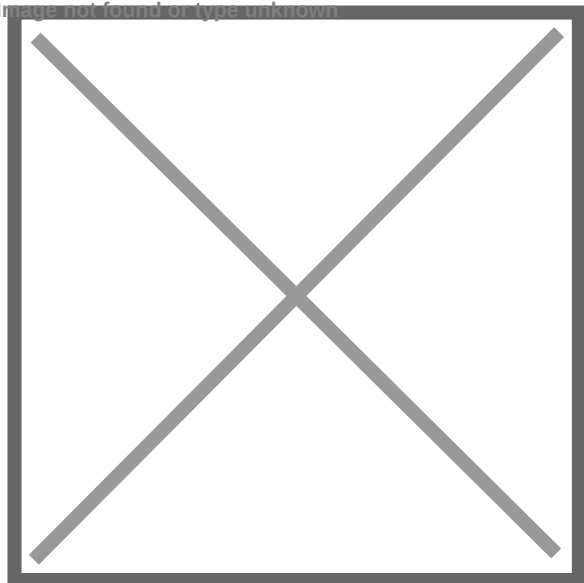
Delivery Conditions:

- BKM (+CR1 ve + CR2) = Standard
- NBK (+N) = Normalized
- GBK (+A) = Annealed

Steel Grades: St 14, St 13, St 12, St 34, St 37, St 44, St 52

Welded Cold Sized Square and Rectangular Tubes for Precision Applications

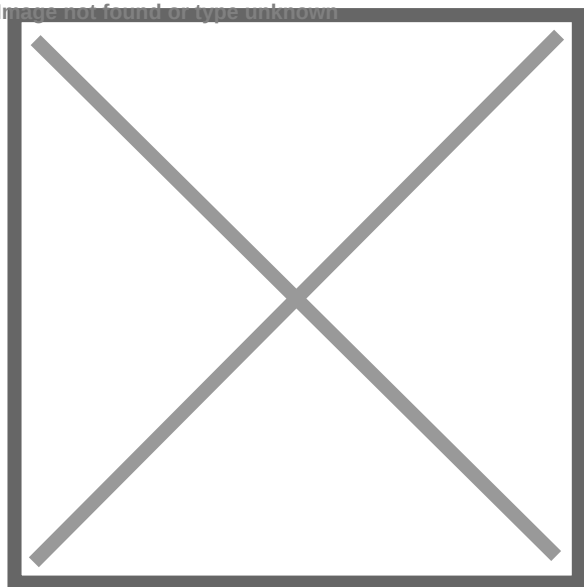
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(Thicknesses bigger than 5mm must be examined.)
Grades stronger than S700 must be examined.

ASTM A 513 Mechanical Tubing (Type V-VI)

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Delivery Conditions: M.D., S.S.I.D.

M.D.: Mandrel Drawn

S.S.I.D.: Special Smooth Inside Diameter

Standard Norms Supplied: ASTM A 513

Steel Grades Mainly Used: 1008-1040

Please contact our sales department for any inquiries.

Further Processing

Provided services according to customer specific demands;

- Cut-to-length and emptying with laser tube cutting
- Cutting, brushing, washing (according to customer specifications)
- Double end chamfering
- Heat treatment (induction hardening)
- CNC bending
- CNC milling, CNC Turning
- Tube forming, end forming (diameter expanding, reduction, flattening,...etc.)

Packing and Delivery Services;

- Loading directly into the customer strongboxes
- Packing as hexagon bundle
- Packing as square bundle
- Packing into cartoon box or wooden crate
- Packing with VCI, silica gel, jute matting, oil paper
- Protection against corrosion

Production Standards

- Welded Cold Sized Tubes : EN 10305-3
- Welded Cold Drawn Tubes : EN 10305-2
- Welded Cold Sized Square and Rectangular Tubes : EN 10305-5

Note: Other standards such as ASTM A513, JIS G 3445 etc. upon request

Steel Grades

- Structural Steels : S235, S275, S355
- DQ Steels : DC01, DC03, DC04
- HSLA Steels : HC260LA, HC300LA, HC340LA, HC380LA, HC420LA S315MC, S355MC, S420MC, S460MC, S500MC, S550MC, S600MC, S700MC
- Dual Phase Steels : DP500, DP600, DP800, DP1000
- Heat Treatable Steels : 20MnB5, 22MnB5, 26MnB5, 30MnB5, 34MnB5
- Coated (Galvanized, aluminized) Steels : DX51, DX52, DX53, S220, S350, DX54, HX300LAD, HX340LAD

Note: Other grades upon request

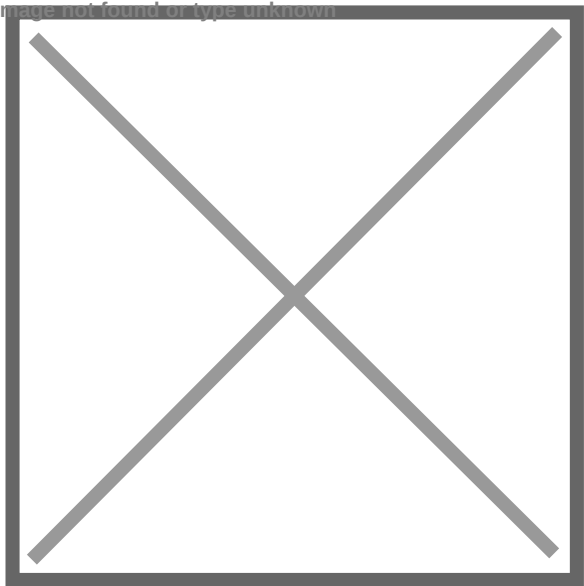
Tests & Inspections
• Visual Examination • Dimensional Inspection • Metallographic Inspection • Tensile Test • Drift Expanding / Flaring Test • Flattening Test • Hardness Testing (HV, HRB, HRC) • Ultrasonic Testing • Flanging Test • Chemical Analysis • Eddy Current Testing • Surface Roughness Measurement

Inspection Documents
• MTC (Mill Test Certificates) acc. to EN 10204 3.1; 2.2

Welded Cold Sized Tubes for Precision Applications
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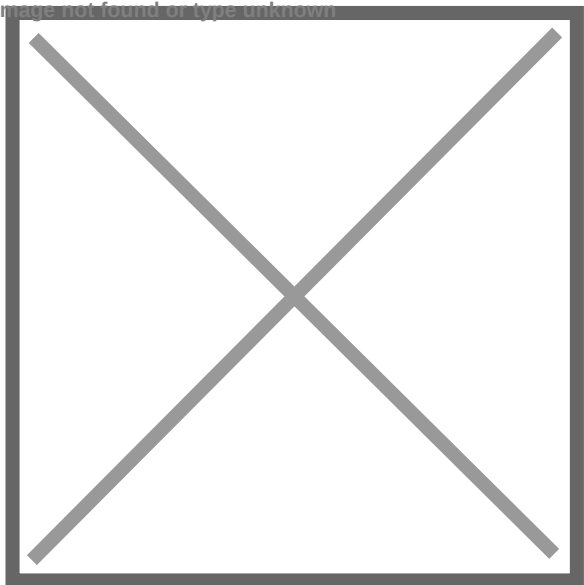
Welded Cold Drawn Tubes for Precision Applications

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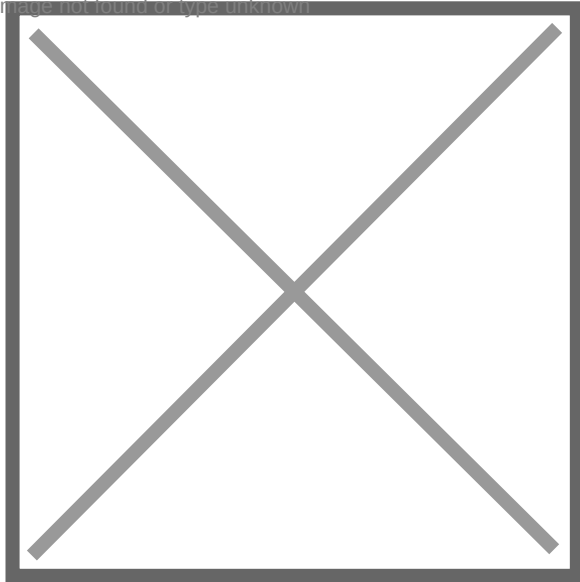
ASTM A 513 Mechanical Tubing (Type V-VI)

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Welded Hollow Sections for Precision Applications (EN 10305-5)

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Further Processing

- Length Cutting
 - Bending
 - Hole Drilling
 - Online Die Stamping
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