



Kalibre Boru

Precision Steel Tubes

Company Policy and Partnership





Kalibre Boru is a reliable partner for worldwide OEM suppliers concerning development, design, prototyping and cost reduction activities with its long-term manufacturing experience and know-how. Kalibre Boru has an extensive knowledge on material science and advanced production techniques which provides a competitive advantage as a producer of long length precision tubes and further processed parts where traceability and repeatability are highly important.

Kalibre Boru analyses each and every customer request with a project team consisting of production, material and R&D engineers.

Every stage of project is defined clearly; starting from choice of suitable material to best production methods and equipment. From prototyping to serial production, from advanced control techniques to problem solving methods each step of project is determined at this stage. Combined with skillful production knowledge and professional workforce, continuity and reliability needed by automotive industry are achieved.

The aim of project management is to achieve right product at first production; with this purpose Kalibre Boru shares all information with the customer at each stage. After producing the convenient product, second step is to increase efficiency and minimize number of defective products by observing process capabilities and customer needs continuously.

Welded and Sized Precision Steel Tubes



► Kalibre Boru produces welded precision steel tubes with a wide range of steel grades ensuring very tight outside diameter and special thickness tolerances.

Best weld quality at different outside diameter and wall thickness combinations is obtained by means of advanced production possibilities.

EN 10305-3

PRODUCTION RANGE

- Outside diameter: 10-127 mm
- Wall thickness: 0,8-8 mm

DELIVERY CONDITIONS:

- +CR1/+CR2 (BKM): Welded and Cold Sized
- +A(GBK): Annealed
- +N(NBK): Normalized

PRODUCTION CAPABILITY FOR WELDING

[illegible]

PRODUCTION CAPABILITY FOR PROFILES

[illegible]

Welded and Seamless Cold Drawn Precision Steel Tubes,



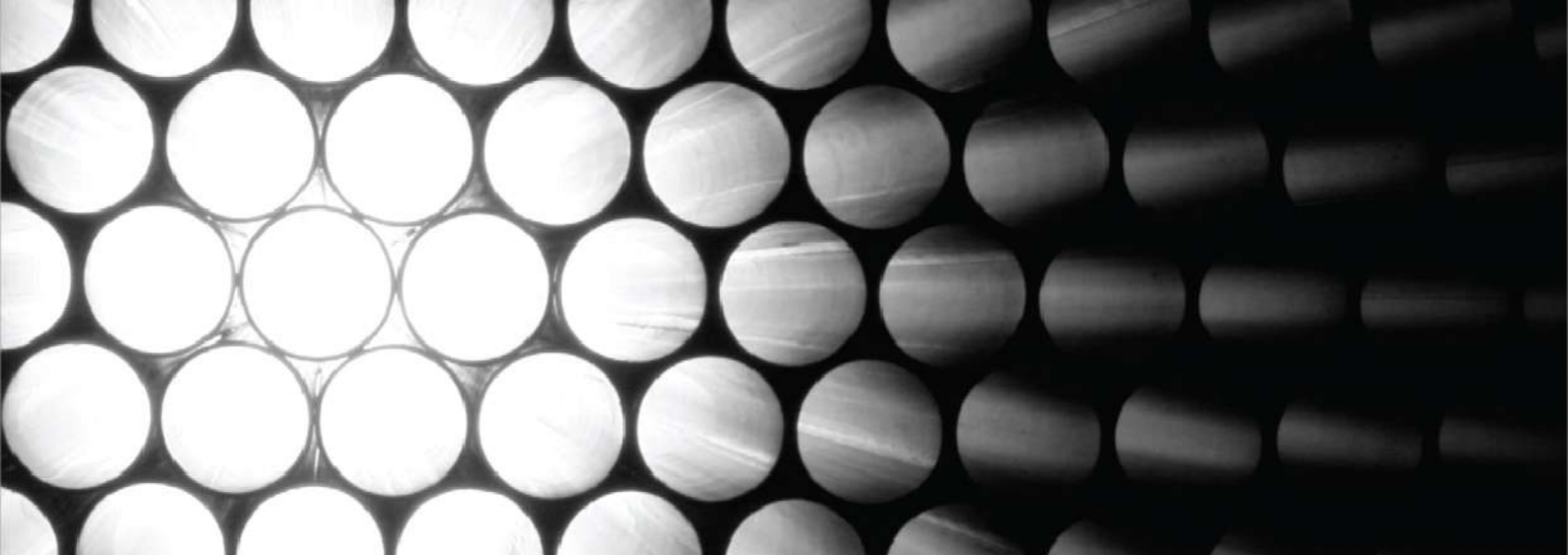
**EN 10305-2
EN 10305-1**

PRODUCTION RANGE

- Outside diameter: 10-120 mm
- Wall thickness: 0,5-13 mm

DELIVERY CONDITIONS:

- +C(BK): Cold Drawn/Hard
- +LC(BKW): Cold Drawn/Soft
- +SR(BKS): Stress-relieved Annealed
- +N(NBK): Normalized
- +A(GBK): Annealed



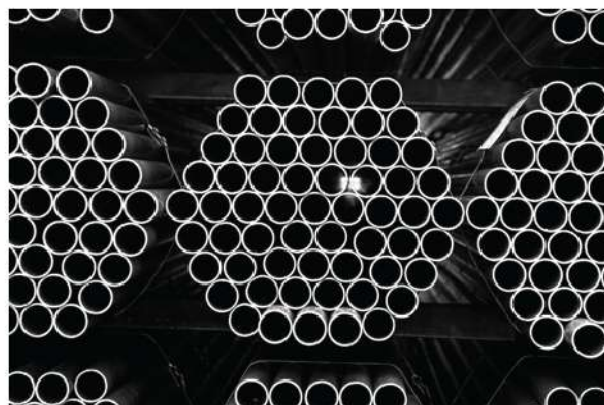
► With profound experience in cold drawing Kalibre Boru provides the highest service in terms of quality and lead-time for both welded and seamless cold drawn tubes which are produced with integrated production machines.

Kalibre Boru guarantees high precision, perfect surface quality, controlled hardness and mechanical characteristics in cold drawn tubes. Kalibre Boru is also able to provide cold drawn tubes for projects with low volumes.

It is also possible to supply with following standards:

- JIS G 3445 (STKM)
- ASTM A513 (SAE)
- BS 6323 (CEW)
- NFA 49341
- GOST 5005-82

The standards not listed above are applicable upon request.



*Further
Processed
Tubular
Components,*





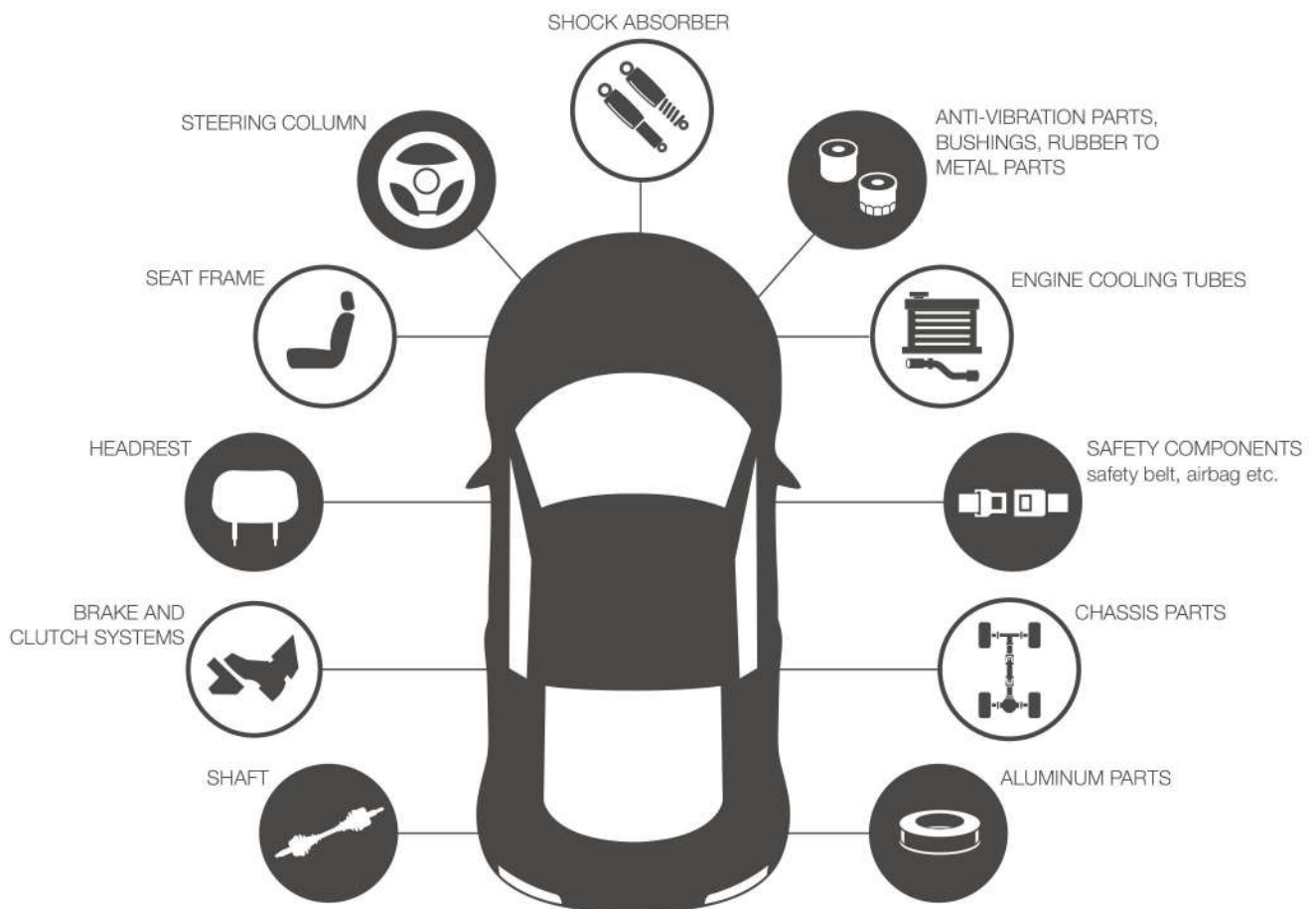
Kalibre Boru is able to produce further processed tubular components in its own facilities.

Both steel and aluminum tubes are cut into requested lengths with tight tolerances according to customer specifications.

Further processes are applied according to customer needs including brush deburring, chamfering, pressing, punching, washing, coating and painting.

Bending applications in accordance with project needs are available. Our experienced project team cooperates with our customers to provide the most suitable applications in line with project requirements.

Statistical process controls, measurement techniques, mistake proofing and various control methods are applied at each level of production. These controls provide continuity and high performance to meet requirements of automotive sector.

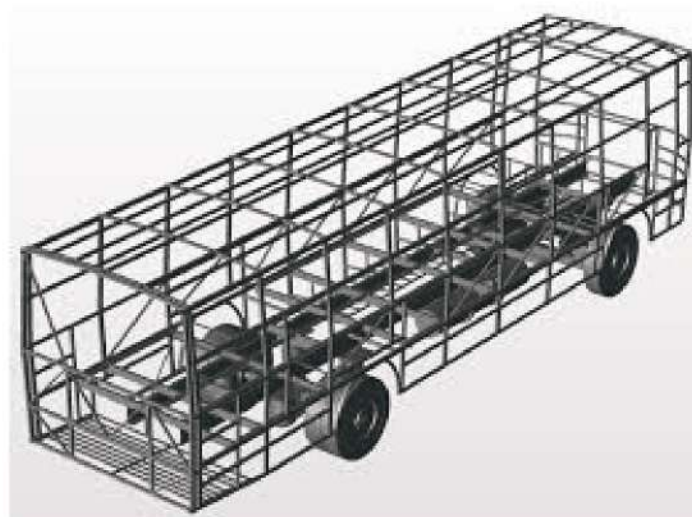


FURTHER PROCESSED PARTS ARE USED FOR:

- | | |
|--------------------------|-------------------------------|
| ➤ Chassis Components | ➤ Brake & Clutch Systems |
| ➤ Anti-vibration Systems | ➤ Cross Car Beams |
| ➤ Rubber to Metal Parts | ➤ Steering Systems |
| ➤ Rear & Front Axles | ➤ Engine Cooling Systems |
| ➤ Aluminum Parts | ➤ Automotive Safety Equipment |
| ➤ Shock Absorbers | ➤ Various Sleeves & Housings |
| ➤ Metal Rings | ➤ Household Equipment |
| ➤ Seat Frames | |

Profile For Automotive,

- With its extensive know-how in tubular sections, Kalibre Boru successfully produced rectangular/square forms of profiles in internationally recognized standards. Paramount welding quality achieved by all-encompassing usage of new technological improvements which empowers our customers to use our profiles in further operations (bending, cutting, welding etc.) unquestionably.



EN 10305-5

PRODUCTION RANGE

- Sizes: 15x15 to 145x60
- Wall Thickness: Up to 8 mm

DELIVERY CONDITIONS:

- +CR1/+CR2 (BKM): Welded and Cold Sized
- +A(GBK): Annealed
- +N(NBK): Normalized



ISO 9001

A certificate that covers all key requirements in the business including process and quality effectiveness analysis to facilitate continual improvement.



ISO/TS 16949

A certificate that applies to design, development, installation and servicing of automotive-related products based on ISO 9001. This certificate ensures development of a quality management system that provides for continual improvement, emphasizing defect prevention and reduction of variation and waste in a supply chain.



ISO 14001

A certificate that ensures efficient environmental management and tools that reflect the best organizations and the best organizational practices available for gathering, interpreting and communicating environmentally relevant information are employed in an organization.



ISO 45001

A certificate that provides a framework for organizations to manage risks and opportunities to help prevent work-related injury and ill health to workers resulting in an improved safe and healthy workplace.



ISO 27001

A certificate that provides a framework of policies and procedures that includes all legal, physical and technical controls to assure an information security management system.

Quality

► Kalibre Boru takes quality as one of the most important criteria in business, using the latest technologies in tube production, respecting employee satisfaction and environment, responding to customer expectations at the highest level and aiming continuous improvement. This quality policy enables Kalibre Boru to focus on the main elements of production and delivery with more confidence.

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