



EN10305 1 Seamless Cold Drawn Tubes: The Gold Standard for Precision Engineering! [News]

Liaocheng, ShanDong, China, 13.08.2026 - Shandong Baokun Metal Material Co. Ltd, a leader in advanced metal solutions, is proud to announce the global launch of its latest innovation: **EN10305 1 Seamless Cold Drawn Tubes**. Developed to meet the rigorous demands of precision engineering, these tubes are positioned to become the gold standard for manufacturers, engineers, and innovators seeking quality, reliability, and versatility in **seamless tube** solutions.



**EN10305 1 Seamless Cold Drawn Tubes:
The Gold Standard for Precision Engineering!**

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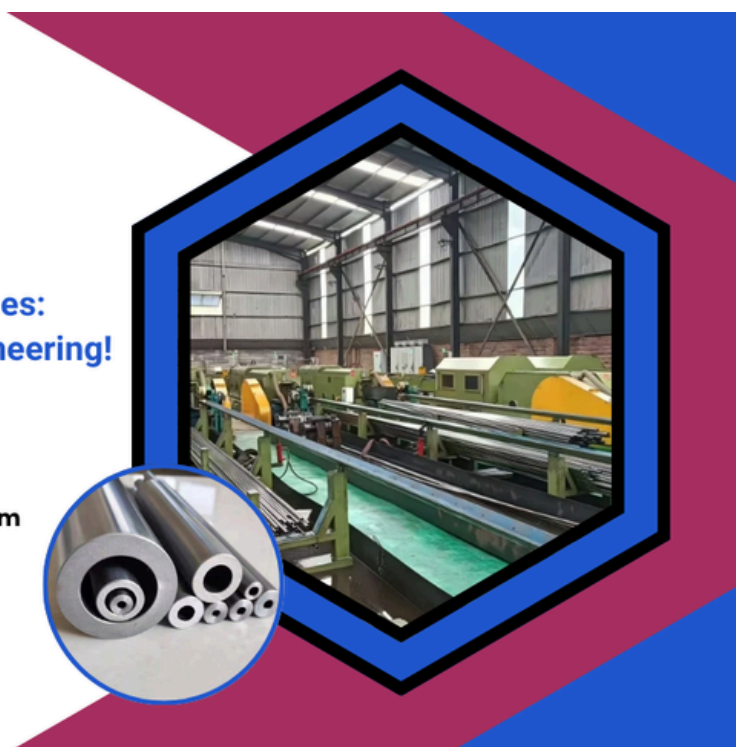


Our Phone
+86 15763576989



Our Website
www.sdbksteel.com

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What Are EN10305 1 Seamless Cold Drawn Tubes?

EN10305 1 refers to the European standard governing cold drawn seamless precision steel tubes. These tubes are renowned for their dimensional accuracy, smooth internal and external surfaces, and excellent mechanical properties. Compared to standard welded or hot-finished tubes, **EN10305 1 seamless cold drawn tubes** offer superior performance where demanding tolerances and a perfect surface finish are essential.

From their application in hydraulic systems, fuel injection lines, and structural elements to uses in control devices, medical technology, and high-speed automation, the need for such high-precision tubing is growing rapidly. Baokun's release of [EN10305 1 seamless cold drawn tubes](#) reflects both current industry requirements and the ongoing transformation of global engineering best practices.

Unmatched Manufacturing Excellence

Materials and Methods

The production of **EN10305 1 seamless cold drawn tubes** at Shandong Baokun Metal Material Co. Ltd leverages the highest standards in raw material sourcing, metallurgy, and manufacturing process control.

1. Premium Steel Selection

Only carefully selected low carbon and alloy steel grades that comply with EN standards are used, ensuring the base metal is consistent, free of inclusions, and suitable for cold working.

2. Seamless Tube Formation

Unlike welded tube, the seamless method begins with a solid billet that is heated, pierced, then elongated into a tube through controlled rolling. This forms the essential base shape, eliminating concerns about weld seams and defects.

3. Cold Drawing Process

The distinguishing feature of **EN10305 1 seamless cold drawn tubes** is the cold working step: the tubes are drawn through dies at room temperature. This process:

- Greatly improves dimensional tolerance (typically h8 or better)
- Enhances mechanical properties, including tensile and yield strength

- Provides outstanding straightness, concentricity, and surface finish—often achieving Ra levels < 0.8 µm

4. Heat Treatment and Normalization

After drawing, tubes can be heat treated to achieve specified properties, such as normalized or stress-relieved conditions, as required by end applications.

5. Precision Cutting and Inspection

Tubes are cut to customer lengths, with deburred ends, and are then subject to strict visual, dimensional, and NDT testing to guarantee flawless quality.

6. Surface Protection

Final finishing may include oiling, phosphating, or other anti-corrosion coatings, assuring safe transportation and storage worldwide.

Key Features & Benefits of Baokun's EN10305 1 Seamless Cold Drawn Tubes

- **Superior Precision:** Ultra-tight dimensional tolerances for perfect system fits
- **Consistent Mechanical Properties:** Reliable performance under load and high-cycle conditions
- **Mirror-Like Surface Finish:** Critical for applications requiring smooth interiors (e.g., hydraulics, fuel lines)
- **Excellent Straightness:** Minimizes vibration and maximizes assembly accuracy
- **Clean, Weld-Free Structure:** Eliminates weak points and risk of seam-related failures
- **Broad Material Options:** Range of steel grades and heat treatments available for customizations
- **Tailored Lengths & Processing:** Tubes manufactured per order, cut, deburred, and protected to customer specs

- **Global Delivery:** Robust logistics ensure on-time shipment to OEMs, distributors, and fabricators around the world

Why EN10305 1 Seamless Cold Drawn Tubes—The Engineering Perspective

Transitioning from traditional tubing types to [EN10305 1 seamless cold drawn tubes](#) is not just a matter of compliance or preference; it is a strategic choice with significant downstream benefits:

1. Unmatched Dimensional Accuracy

These tubes are produced to tolerances far tighter than those of welded or hot-finished alternatives. For engineers, this means fewer fitment issues, less post-processing, and easier, more repeatable assembly processes.

2. Enhanced Mechanical Strength

Cold drawing refines grain structure, producing tubes with higher yield and tensile strengths—often critical in safety or pressure applications.

3. Improved System Efficiency

The smooth, hard inner surface reduces friction for flowing fluids (hydraulic oil, air, gases, etc.), improving system responsiveness and energy efficiency.

4. Maximum Reliability

No weld seams mean less risk of leaks or corrosion along the length of the tube. This is particularly important for high-pressure hydraulics, fuel injection, precision servo systems, and medical applications.

5. Versatility

The ability to specify tubes in various diameters, wall thicknesses, lengths, and grades allows for fine-tuned engineering. Baokun offers complete customization, supporting rapid prototyping as well as full-scale production runs.

Industry Applications: Where EN10305 1 Seamless Cold Drawn Tubes Set the Standard

- **Hydraulic and Pneumatic Cylinders:** Dimensionally precise, smooth inside bore assures seal life, leakproof operation, and energy-efficient fluid movement.
- **Automotive Engineering:** Used in steering columns, injection systems, brake lines, and drive components where safety and consistency are paramount.
- **Aerospace & Defense:** Lightweight, strong, and flawless tubes are essential for mission-critical aerospace assemblies.
- **Machinery & Automation:** Shafts, supports, and guide components in CNC, robotics, and packaging machinery where high speeds and low tolerances are demanded.
- **Medical Devices:** Demanding environments require clean, defect-free, and often small-diameter [seamless tubes](#).
- **Instrumentation & Control:** Use as protection for wiring, cabling, or as part of the sensing/actuation mechanism itself.

Baokun's Manufacturing Promise: Quality and Consistency

Company spokesperson Ms Sun emphasizes, "Our focus is absolute reliability. At Baokun, each meter of [EN10305 1 seamless cold drawn tube](#) is forged from decades of experience, continuous investment in technology, and our strong culture of quality. Our clients know they're receiving not only a product that meets EN standards, but also a solution that drives their business forward."

Baokun's laboratories and inspection teams utilize advanced metrology, digital microscopy, ultrasonic and eddy current flaw detection, and a full suite of mechanical and chemical tests.

Every shipment is accompanied by detailed test reports and compliance statements, ensuring confidence for global buyers.

Customization & Customer Support

One size rarely fits all. Baokun proudly offers the industry's widest range of customization options:

- Outside diameter from 4mm to 120mm
- Wall thickness from 0.5mm to 20mm
- Custom lengths and fabrications to 12 meters, with ready-to-use cut pieces
- Various steel grades including E235, E255, E355, 20Cr, 15CrMo, and stainless options
- Multiple heat treatment options (normalized, annealed, stress relieved)
- Surface finishing: oiled, dry, or phosphate-coated
- End-working: chamfering, threading, special shapes

From initial consultation through delivery and after-sales support, Baokun's expert team and Ms Sun ensure responsive service and technical support for every client.

Global Reach, Local Service

With exporting experience to over 60 countries, Baokun understands the importance of timely shipments, correct documentation, and local technical assistance. Warehousing in key global hubs allows just-in-time supply and fast response to urgent requests.

About Shandong Baokun Metal Material Co. Ltd



Seamless Steel Pipe & Tube China Manufacturer & Supplier

Main products:

- Carbon Steel Pipe
- Alloy Steel Pipe
- Precision Steel Pipe
- Honed Tube
- Chrome Rods etc.

 www.sdbksteel.com

 [+86-15763576989](tel:+86-15763576989)

 info@sdbkmetal.com



Shandong Baokun Metal Material Co. Ltd is among China's most trusted sources for high-quality, precision steel tubing. Specializing in cold drawn, seamless, and custom-engineered solutions, the company supports industries including automotive, aerospace, heavy equipment, medical manufacturing, and more. With an unwavering commitment to innovation, quality, and customer satisfaction, Baokun continues to shape the future of global engineering.

With the launch of **EN10305 1 seamless cold drawn tubes**, Shandong Baokun Metal Material Co. Ltd affirms its commitment to empowering engineers and manufacturers across the globe. When precision, performance, and reliability are the benchmarks of your project—choose Baokun, choose the gold standard.

Media Contact:

Company Name: Shandong Baokun Metal Material Co., Ltd

Contact Name: Ms. Sun

Contact Phone: +86 15763576989

Address: Room 1211, Commercial Office Building 2, Development Zone, Liaocheng, ShanDong, China

Email: info@sdbkmetal.com

Website: <https://www.sdbksteel.com/>