

Crest Technologies

Stainless Steel Pipes & Tubes Overview

Crest Technologies provides a comprehensive range of stainless-steel pipe and tube solutions for diverse industrial applications. Our products include **seamless** and **welded** tubes manufactured to stringent international standards. Below is a summary of our stainless-steel pipe and tube offerings, typical applications and key capabilities.

Applications

- Oil & Gas
- Petrochemical
- Semiconductor
- CNG (Compressed Natural Gas)
- Automobile
- Nuclear, Thermal & Hydro Power
- Chemical
- Paper & Pulp
- Fertilizer
- Water Treatment & Desalination
- Aerospace
- Shipbuilding

Seamless Tubes

| Product | Grade / material | Size range | Thickness range | Length |
|---|---|-----------------------|----------------------|-------------------------|
| Hydraulic/ Instrumentati on tube | Nickel, Duplex, Super Duplex, Austenitic, Super Austenitic, 6Mo | 3 mm – 25.4 mm | 0.70 mm – 3.05 mm | 6 m fixed (max 24 m) |
| Heat exchanger/Boi ler tubing | Nickel, Duplex, Super Duplex, Austenitic, Super Austenitic, T91, T92 | 15.88 mm – 60.3 mm | 1.65 mm – 8.74 mm | Up to 18 m |
| Hollow bars | Austenitic, Super Austenitic, Duplex & Nickel alloys | 32 mm – 228 m m | 5.5 mm – 30 mm | 3 – 6 m |

Special products

| Product | Size range | Thickness range | Length | Notes |
|---|---------------------|----------------------|------------------------------|---|
| Coiled tubing | 6 mm – 19.05 m m | 0.8 mm – 2.11 m m | Up to 250 m | Without joint |
| Ultra-smooth/ Sanitary/Dairy tubes | — | — | — | ID surface roughness < 0.4 Ra |
| Seamless piping | ½ in – 8 in | Up to 25 mm | SRL 5–7 m; DRL up to 14 m | Suitable materials: nickel alloys, 904L, 6Mo, Duplex, Super Duplex, Austenitic & Super Austenitic |

Value-added services: **electropolishing, PVC coating, oxy cleaning.**

Welded Tubes & Pipes

| Product | Specifications | Diameter range | Thickness range | Length / notes |
|---|--|--|--|---|
| Welded SS tubes (heat exchanger, condenser & heater) | ASTM A/SA 249, A269, A/SA 688; EN 10217-7 (ISO tolerance) | 0.5 in – 4.5 in (12.7 mm – 114.3 mm) | 0.19 in – 1.96 in (0.5 mm – 5 mm) | Up to 19 m straight; Up to 30 m U-tubes |
| Welded SS / Duplex / Super-duplex pipes | ASTM A 358, A 928, A 778, A 789 | 8 in – 72 in NB | 0.19 in – 1.38 in (3 mm – 35 mm) | 12 m double random length; cut-to-length available |

Manufacturing & Capabilities

Crest Technologies operates advanced facilities with:

- Slitting, pipe forming (TIG/Plasma), cold pilger rolling and hot finishing/extrusion capabilities.
- Bright and dull annealing, solution annealing, pickling and passivation.
- U-bending, straightening and cutting to length.
- Comprehensive inspection and testing: hydrostatic testing, eddy-current inspection, ultrasonic testing, mechanical testing, real-time radiography and other non-destructive tests.
- Value-added services such as electropolishing, PVC coating and oxy cleaning.

Manufacturing Process Overview

1. **Mother hollow preparation:** A round billet is hot-extruded to produce a mother hollow.

2. **Initial processing:** Inspection, cold pilger rolling, degreasing and drying.
3. **Heat treatment & straightening:** Solution/bright annealing followed by straightening.
4. **Sizing & surface treatment:** Re-cold pilger rolling for sizing; pickling and passivation.
5. **Testing:** Non-destructive tests (eddy-current, ultrasonic), hydraulic pressure tests and other mechanical checks.
6. **Finishing:** Marking, mechanical testing, cutting to length and dimensional checks.
7. **Final steps:** Inspection, packing and shipping of straight tubes, or U-bending with subsequent testing and annealing for U-bend tubes.

Certifications & Standards

Crest Technologies supplies stainless-steel pipes and tubes in accordance with internationally recognized quality and safety standards such as ISO 9001/14001/45001, PED 2014/68/EU and other industry-specific approvals. Contact us for details on the certifications relevant to your project.

Contact

For more information or to discuss your stainless-steel piping requirements, please contact us at info@cresttechnologies.com.