HandyTube
A Handy & Harman Company

Specializing in Seamless Tubing for Critical Applications

WWW.HANDYTUBE.COM
MADE IN USA
For over 145 years, Handy & Harman has been a valued brand in precious metals. Today, Handy & Harman Ltd., a publicly traded company, has employees in 23 locations delivering quality products to our valued customers. A commitment to integrity has always been synonymous with the name Handy & Harman, and HandyTube is proud to share this belief. We make it evident in our dedication to high-quality service and products.

1867 – Handy & Harman founded as a precious metals company
1892 – Handy & Harman sets domestic traded silver price
1905 – Started diversifying metals business to include brazing alloys
1948 – Handy & Harman Tube Division is founded in Norristown, Pennsylvania
1981 – Camdel Metals Long Coil Division is founded in Camden, Delaware
2006 – Precision Materials product line added to Camdel Metals
2011 – Camdel Metals Corporation is renamed HandyTube Corporation
2012 – HandyTube produces Xtreme Length coil
HandyTube is a premium manufacturer of Xtreme Length seamless tubing for critical applications. Originally used in the oil and gas industry for control lines and chemical injection systems, our long coils are now used in diverse industries worldwide.

AEROSPACE & DEFENSE
Fuel Lines • Hydraulic Lines • Gas Return Tubes for Automatic Weapons

ALTERNATIVE ENERGY
Solar Dishes • Hydrogen Refueling Stations • CNG & LNG Transfer • Geothermal

CHEMICAL PROCESS & INSTRUMENTATION
Steam & Heat Trace Bundles • Flow Measurement & Sensing • Fluid & Gas Transfer

HEALTH CARE & LIFE SCIENCES
Medical Devices • Chromatography

OIL & GAS
Sub-Sea Safety Valves • Control Lines • CNG & LNG Transfer • Chemical Injection

SHIPBUILDING
Hydraulic Controls

NUCLEAR
Nuclear Reactor Detectors
HandyTube specializes in seamless coil tubing from 1.00” to 0.020” in outer diameter. HandyTube produces seamless tubing for industrial, manufacturing and research applications. Our true seamless tubing is heat-treated in a vacuum furnace and is available in a number of high-performance, corrosion-resistant alloys and sizes ideal for even the most challenging environments. Our Precision Materials product line, added in 2006, broadened our capabilities to include smaller diameter tubing. We are now a leading manufacturer of capillary and transport tubing ranging from 1.00” to 0.020” (25.4 mm to 0.5 mm) in outer diameter.

**Seamless Coils – When Failure is Not an Option**

Our X-treme Length coils can exceed 6,000 feet (2 km) in length without any longitudinal or orbital welds. With seamless coil tubing, there is no risk of impurities that are often associated with welded tubing. This makes seamless the preferred option for critical applications.

- Increased corrosion resistance
- Available in multiple sizes compatible with standard fittings
- Improved reliability—Using fewer fittings reduces the opportunity for defect, such as leaks and other long-term failures.
- Reduced installation costs—Installing continuous length, seamless tubing from HandyTube takes less time and is more reliable than coupling multiple shorter lengths.

**Straight Length Tubes**

HandyTube produces various alloys and sizes in straight lengths ideal for ultra-high purity, military, aircraft, semi-conductor, medical and general instrumentation applications. These tubes are suitable for all assembly methods including flared and compression fittings.

### SIZING CHART

HandyTube specializes in seamless coil tubing from 1.00” to 0.020” in outer diameter.

<table>
<thead>
<tr>
<th>Outer Diameter</th>
<th>Wall Thickness</th>
<th>Coil Lengths</th>
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<tbody>
<tr>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>0.250</td>
<td>6.4</td>
<td>0.035</td>
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<tr>
<td>0.250</td>
<td>6.4</td>
<td>0.049</td>
</tr>
<tr>
<td>0.250</td>
<td>6.4</td>
<td>0.065</td>
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<tr>
<td>0.375</td>
<td>9.5</td>
<td>0.035</td>
</tr>
<tr>
<td>0.375</td>
<td>9.5</td>
<td>0.049</td>
</tr>
<tr>
<td>0.375</td>
<td>9.5</td>
<td>0.065</td>
</tr>
<tr>
<td>0.375</td>
<td>9.5</td>
<td>0.083</td>
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<tr>
<td>0.500</td>
<td>12.7</td>
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<tr>
<td>0.500</td>
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<td>0.625</td>
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<td>0.083</td>
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</tr>
<tr>
<td>0.750</td>
<td>19.1</td>
<td>0.083</td>
</tr>
</tbody>
</table>

*Typical coil lengths shown above. Lengths will vary depending on alloy and raw material. Custom lengths and sizes available upon request.

### Alloys

- 304/304L
- 316/316L (2.5% Min. Mo)
- 316/316L
- 317/317L
- 321
- 347
- 1600
- 1625
- 1825
- C22
- C276
- M400
- N200
- 904L
- 6Mo*
- 2205*
- 316Ti*
- 904L

DFARS compliant materials are available.

*Coming soon (Please contact sales for availability)
QUALITY ASSURANCE – When Quality Counts, Count on HandyTube

HandyTube’s facilities are ISO 9001 certified. We have the latest testing equipment and trained personnel to assure compliance with stringent military and ASTM specifications. Our ISO 9001 certification extends across our entire operation and guarantees control procedures are in place to ensure only high-quality products ship through our doors.

- Traceability throughout the entire manufacturing process
- Material Test Reports accompany every shipment
- In-house, climate-controlled laboratory
- 100% sample retention for peace of mind
- 100% Positive Material Identification (PMI)
- 100% pressure testing of all coils

Quality Certifications

- ISO 9001
- Pressure Equipment Directive (PED)
- AD 2000-Merkblatt W 0
- DNV Approved Supplier
- Gulfstream Approved Supplier
- Pratt & Whitney Approved Supplier
- BV Mode I Scheme
- NACE MR0175
- NACE MR0103
- ABS
- EN 10204 3.1

Testing Abilities

- Dimensional Analysis
- Positive Material Identification (PMI)
- Metallurgical Analysis
- Chemical Analysis
- Eddy-Current
- Hydrostatic
- Tensile
- Yield
- Elongation
- Hardness
- Grain Size
- Surface Roughness
- Flare
- * Other testing services available upon request

Custom Solutions for Critical Applications

With in-depth knowledge, passion for quality and years of experience, HandyTube’s engineers provide expertise on new product development, testing and proof-of-principle. We have worked successfully with our customers worldwide to take products from a raw idea to full implementation of extensive customer-specific solutions for critical applications. You can rely on our team of engineers to refine your ideas, explore options, create new solutions, analyze values and deliver on commitments.