

Long Length Seamless Mechanical Steel Tubing

All around the world, customers turn to Timken for innovation that moves them ahead of the competition. With more than 90 years of steelmaking experience, we are North America's largest manufacturer of **seamless alloy mechanical** tubing. Industries throughout the world rely on Timken® steel tubing for their most demanding applications.

The new 37 ft. (11 m) tubing is another example of how Timken continues to expand its capabilities to improve customer performance. Timken's supply chain and application development engineers offer innovation by consulting with customers regarding their specific requirements to qualify Timken® steel for their applications.

The drilling applications for the gas and oil industries are very demanding applications that utilize Timken high quality steel products. We work closely with customers globally to support the increasing demand for high-strength, corrosion-resistant steels.

Timken is supplying steel products for the following applications:

- *Riser systems*
 - *Choke/Kill lines*
 - *Booster lines*
- *Landing stings*
- *Kelly bars*
- *Drill collars*
- *Drill pipes*
- *Drill bits*

The combination of Timken's integrated manufacturing and technology development processes allow us to generate differentiated products and

new offerings such as longer length tubing. Longer length tubing can reduce cost and waste, improving productivity and profitability. In addition to Timken's new length capability, Timken can produce larger heat sizes to further minimize costs.

Working with longer length tubing offers several advantages:

- *Increases yields and efficiencies*
- *Reduces material handling and material loss*
- *Fewer connection points and assembly*
- *Minimizes inspection points and product testing*
- *Maximizes process capability*
- *Increases product integrity*

Sizes available in lengths of 37 ft. (11 m):

Outside Diameter	Wall Thickness	
	Min.	Max.
<u>5.0 in.</u> (127 mm)	<u>0.750 in.</u> (19 mm)	<u>1.250 in.</u> (32 mm)
<u>6.0 in.</u> (152 mm)	<u>0.750 in.</u> (19 mm)	<u>1.500 in.</u> (38 mm)
<u>7.0 in.</u> (178 mm)	<u>0.875 in.</u> (22 mm)	<u>1.500 in.</u> (38 mm)
<u>8.0 in.</u> (203 mm)	<u>1.000 in.</u> (25 mm)	<u>1.500 in.</u> (38 mm)
<u>9.0 in.</u> (229 mm)	<u>1.125 in.</u> (29 mm)	<u>1.500 in.</u> (38 mm)

For additional sizes, contact your Timken sales representative.

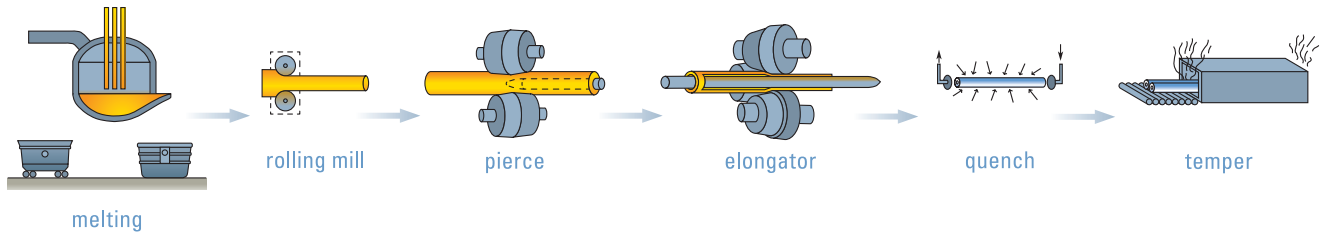
TIMKEN

Where You Turn



FROM MELT TO FINISH

Complete integration of melting, rolling, piercing and finishing operations results in the finest quality control and custom product from melt to finish.



Tubing is produced in most standard carbon, alloy and intermediate alloy grades, as well as non-standard grades. It can be supplied with a variety of thermal treatments, from simple anneal to simultaneous OD/ID quenching. Our hot rolled tubing can be furnished in multiple lengths as specified by the individual customer.

Timken provides a wide array of solutions for industries around the world:

- **Energy**
 - Riser systems
 - Drilling applications
- **Industrial**
 - Machine components
 - Gear components
- **Construction**
 - Hydraulic systems
 - Hollow shafts and pins
- **Defense**
 - Missile bodies
 - Gun barrels
- **Off-highway**
 - Engine components
 - Driveline components

Customers turn to Timken for innovation:

- **Longer length tubing**
- **More than 300 active chemistries**
 - Impact™ series
 - MicroTec® alloys
 - 9 and 13 Cr
- **Technical expertise**
- **Value-added processing**
- **OD/wall size range capabilities**

When you turn to Timken, you get more than just products. We leverage our global capabilities and more than 100 years of technical expertise to generate new sources of value for our customers. Combining materials science, application engineering and processing capabilities, we are dedicated to improving customer performance. From manufacturing to warehousing to distribution, we offer the value-added options you need to gain a competitive edge.

Timken engineers solutions. Contact us to create one for you.

For more information on Timken steel services, call 866.284.6536, fax 330.471.7032 or visit our Web site at www.timken.com/products/alloysteel.



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Bearings • Steel • Precision Components • Lubrication • Seals • Remanufacture and Repair • Industrial Services

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