Stainless Steel Bar

The worldwide leading position of Ugitech SA in stainless steel bar goes far beyond the simple measurement of our global volumes; Ugitech SA is at the forefront of innovation and technological advancements. Today, the North American distribution proudly carries the name of SCHMOLZ + BICKENBACH and continues the tradition of Quality Service to the US market. Our stocking locations are strategically located throughout the country, and operate with one purpose: making sure customers get the special steel products they need, when and where they need them. Our unique approach to product support sets us apart from all other steel mills and distributors.

Our services include immediate product availability, custom orders, customer-dedicated inventory programs and strong technical support with both in-house metallurgical and mechanical engineering support. We are focused on providing products and service that offer our customers a competitive advantage. If you are looking for a source of stainless steel products, you have found it here.

Common Stocking Grades

- 303 UGIMA XL™
- 304/304L UGIMA XL™
- 316/316L UGIMA XL™
- 416/416HT (Rc 26/32)
- 430F
- 430FR
- 630 UGIMA®

Over 150 additional mill grades are available. Please Inquire.

Stainless Steel Bar

SMQ™ Screw Machine Quality® Stainless Steel Bar

SMQ™ is the most recent technology in stainless steel round bars brought exclusively to the market for precision machine part manufacturers. This product was developed specifically in response to the increasing needs of precision machined part manufacturers throughout the world to provide precision bar stock for:

- **Diameter Consistency** designed for Precision Machining
- **Straightness** designed for increased RPMs and reduced vibration
- **Bar Uniformity** [Supports Improved Part Tolerances and Finishes]
- **End Conditioning** for easy bar feeding
- **Running “Lights Out” Production** without worries of material quality issues
- **Consistent Machinability** from lot to lot

Diameter Tolerance Comparison

<table>
<thead>
<tr>
<th>Example Sizes</th>
<th>ASTM A484</th>
<th>SMQ™ Tolerance</th>
<th>SMQ™ Consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/32&quot;</td>
<td>+/- .0100&quot;</td>
<td>+/- .00059&quot;</td>
<td>+/- .00030&quot;</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>+/- .0150&quot;</td>
<td>+/- .00070&quot;</td>
<td>+/- .00035&quot;</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>+/- .0200&quot;</td>
<td>+/- .00084&quot;</td>
<td>+/- .00042&quot;</td>
</tr>
<tr>
<td>1&quot;</td>
<td>+/- .0250&quot;</td>
<td>+/- .00102&quot;</td>
<td>+/- .00051&quot;</td>
</tr>
</tbody>
</table>

Superior Tolerances

Diameter Tolerance (ISO J9)

Approximately 50% better when compared to commercial ASTM standards

Diameter Consistency

Diameter variation no more than 50% of SMQ™ total diameter tolerance
Superior Tolerances (cont.)

**Straightness**
1/32” in 5’, SMQ™ is approximately 50% straighter than commercial ASTM standards

**Roundness/Ovality**
Maximum out of round tolerance 1/3 SMQ™ diameter tolerance

**Surface Finish**
Enhanced finish is far superior to commercial ASTM standards

Bar End Conditioning

**Chamfered Bar End**

(1) End Chamfered 45° provides a guide to protect and minimize the wear of feed fingers, pads & collets (also available with (2) Ends Chamfered on new mill orders)

![45° Angle](Image)

**Pointed Bar End**

(1) End Pointed 30° provides a mated end for use with hydrostatic bar feeders

![30° Angle](Image)

> End conditions are typical, dimensions are approximate
> End condition variations available on special order

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Locations

**Headquarters & Technical Support**
SCHMOLZ + BICKENBACH USA, INC.
365 Village Dr.
Carol Stream, IL 60188
Phone: 800.323.1233
Fax: 630.879.0498

**Manufacturing & Central Stocking Facility**
SCHMOLZ + BICKENBACH USA, INC.
1609 E. Wilson St.
Batavia, IL 60510

**Distribution Locations**

**West Coast**
556 Vanguard Way
Brea, CA 92861

**Midwest**
365 Village Dr.
Carol Stream, IL 60188
7724 Winpark Rd.
New Hope, MN 55427
1455 Miller Pkwy.
Streetsboro, OH 44241

**Southeast**
1425C S. Buncombe Rd.
Greer, SC 29651

**Northeast**
370 Franklin Turnpike
Mahwah, NJ 07430

**Canada**
SCHMOLZ + BICKENBACH CANADA, INC.
6350 Vipond Dr.
Mississauga, ONT L5T 1G2

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We reserve the right to make changes and technical improvements without notice. Errors and omissions excepted. The product-specific data sheets take priority over the details given in the catalogue.

The detailed performance characteristics are only binding if they had been agreed upon exclusively at the time that the contract was made.