

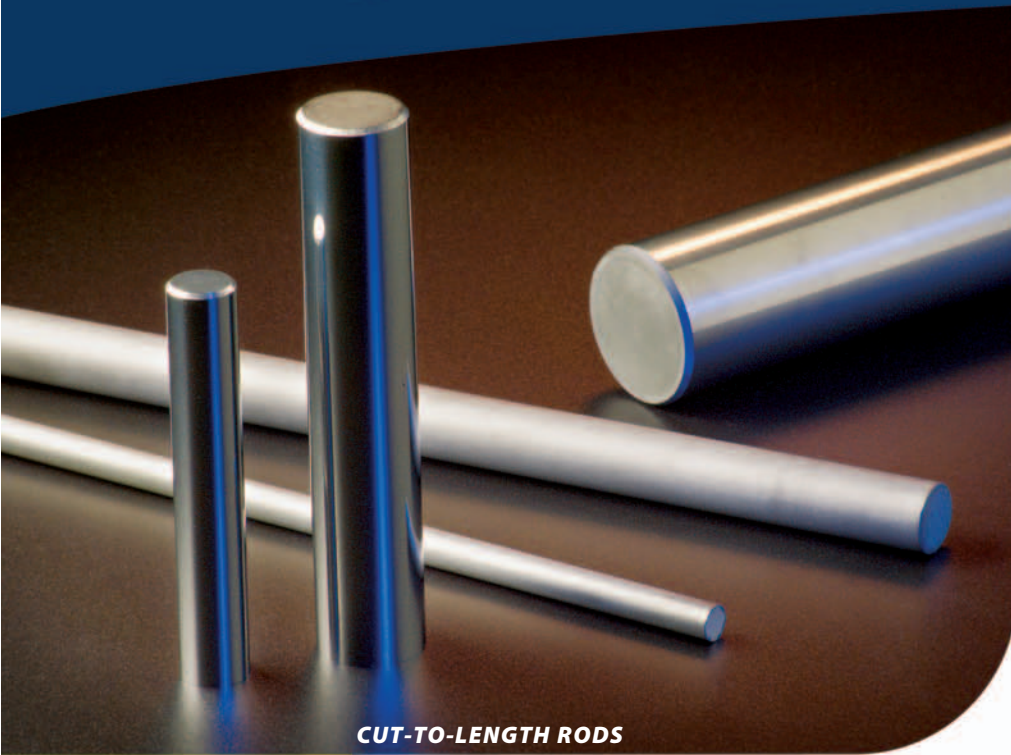
*Engineering
Your
Competitive
Edge*



**PERFORMANCE-DRIVEN CUTTING
TOOLS FOR THE ROTARY MARKET**

Engineering
Your
Competitive
Edge

IN ROTARY CUTTING



CUT-TO-LENGTH RODS



TUNGSTEN CARBIDE MFG.

Outstanding Performance for that Competitive Edge!

When long life, exceptional cutting performance and durability matter most, customers around the world specify blanks and rotary cutting tools from TCM.

Tooling from TCM is engineered to perform beyond common expectations. We manufacture from high-grade raw materials and blend our unique powder formulations to meet the most demanding requirements of the rotary tool industry.

TCM's wide assortment of grades assures that you'll get the right product for the right job.

Quality You Can Count On

TCM product development is driven by an uncompromising ability to listen to our customers. Our applications engineers and field service personnel are constantly working with customers to develop new solutions to improve productivity and overall performance.

That's one of the reasons why we offer a wide selection of micro-grain and submicron high strength grades that are engineered to stand up to thermal extremes, vibration, and impact wear.

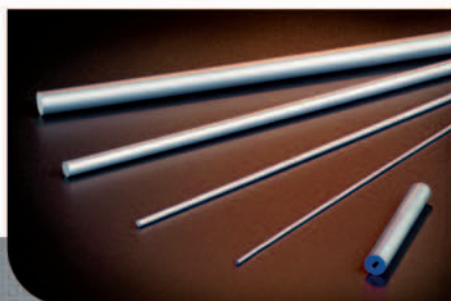
Many of our products are sinter-HIP processed to ensure complete metallurgical integrity and quality. And all TCM manufacturing facilities are ISO 9002 certified.

TCM GRADES

- 2506 — 6%
- 2608 — 8%
- 2210 — 10%
- 2216 — 16%
- 2612 — 12%
- Cutting cast iron, non-ferrous metals, plastic, wood, most steels, fiberglass, and exotic metals.



REDI-BURS



EXTRUDED RODS



ROTARY BLANKS

TING TOOLS

Products for Every Need

TCM built its reputation as a quality supplier of pressed and extruded unground, semi-finished and polished rod. But our product line is much more than that.

Today, TCM is also recognized as a leading manufacturer of:

Bur Blanks (to be brazed) – pressed to close tolerances in inch and DIN sizes.

Redi-Burs – carbide blanks already brazed to a steel shank.

Solid Carbide Bur Blanks – form ground to close tolerances.

Carbide Rod – cut to length or in 12" length, semi-finished or finish ground tolerances.

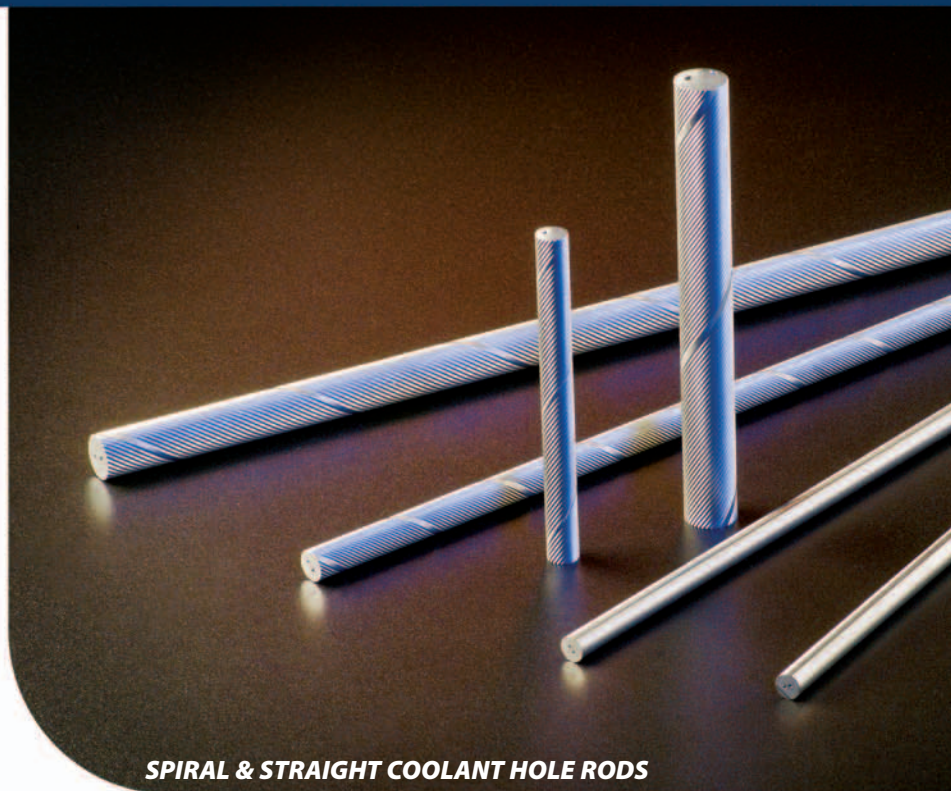
Carbide Tips – for masonry drills and carbide-tipped twist drills; offered in square, rectangular and other shapes.

Preforms – "made to order" special blanks per engineering drawings.

The Wear Parts Experts

At TCM, we strive to offer our customers outstanding performance in everything we do.

As part of the worldwide Kennametal Engineered Products Group, TCM has the resources of Kennametal and its global leadership in complex metallurgy and material science as a resource in helping to solve our customers' most complex wear and performance problems.



SPIRAL & STRAIGHT COOLANT HOLE RODS

DELIVERY WHEN YOU WANT IT!

TCM customer service is second to none. Most products are available in stock for quick ship.

Our customer service representatives are just a phone call away to help with special orders or engineered parts applications.

ROD

- Cut-to-length*
- Inch/Metric
 - Unground
 - Ground
 - Micro Finish

12" & 14" Random

- Inch/Metric
- Unground
- Ground
- Micro-Finish

COOLANT ROD

- 30° Spiral
- 2-Hole Straight
- 1-Hole Straight

BURS

- Redi-Burs

PREFORMS

- Unground
- Ground
- Special Shapes
- Special Tolerances



DRILL BLANKS



PREFORMS



**Kennametal EPG —
Tungsten Carbide Manufacturing (TCM)**

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www.tcmrod.com

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Fax: 800/662-2132 or 231/946-3025
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Kennametal EPG — Kennametal Specialty Products (KSP)

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www.kmtspecialtyproducts.com



**Your engineered wear parts solution is at
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Kennametal World Headquarters, Latrobe, Pennsylvania.

EPG IS COMMITTED TO BEING A
GLOBAL LEADER OF ENGINEERED
WEAR SOLUTIONS THROUGH ADVANCED
MATERIALS, INNOVATIVE DESIGN
TECHNOLOGY AND AN UNYIELDING
DEDICATION TO EXCEEDING OUR
CUSTOMERS' EXPECTATIONS.