





# **Holemaking Products**

Our latest Metalcutting Innovations are designed to deliver higher productivity, longer tool life, and increased application versatility.



### **SOLID CARBIDE DRILLS**

See Section G for more details.

GOdrilI™

**TF Drills** 

Beyond™ Drills

Y-TECH™ Drills

**TX Drills** 

**SPF Drills** 

**Flat-Bottom Drills** 

Kenna Universal™ Drills

**NC Spot Drills** 

# **MODULAR DRILLS**

See Section H for more details.

KenTIP™

KSEM™

**KSEM PLUS™** 

### **COMBINATION TOOLS**

See Section I for more details.

**BF Combination Drilling System** 

SEFAS<sup>™</sup> Combination Drilling System





For more information about the latest products and services from Kennametal, please contact your Kennametal Representative or Authorised Kennametal Distributor, or visit www.kennametal.com.



# **INDEXABLE DRILLS**

See Section J for more details.

Drill Fix™

**HTS Series Indexable Deep-Hole Drilling System** 

**Indexable Drill Inserts** 

**CTR Counterboring Tools** 

**Counterboring Inserts** 

### **HOLE FINISHING**

See Section K for more details.

**Reaming Tools** 

SIF Steerable Toolholders

**PCD Customised Tooling** 

**Romicron™ Fine-Boring System** 

**ModBORE**<sup>™</sup> Boring System

## **TAPS**

See Section L for more details.

Beyond™ High-Performance Solid Carbide Taps

**High-Performance HSS-E-PM Taps** 

**High-Performance K Series Taps** 

General-Purpose Taps **High-Performance Solid Carbide** 

**Thread Mills** 





# **Select the Correct Holemaking Solution for Your Application**

### Added Value for Your Performance

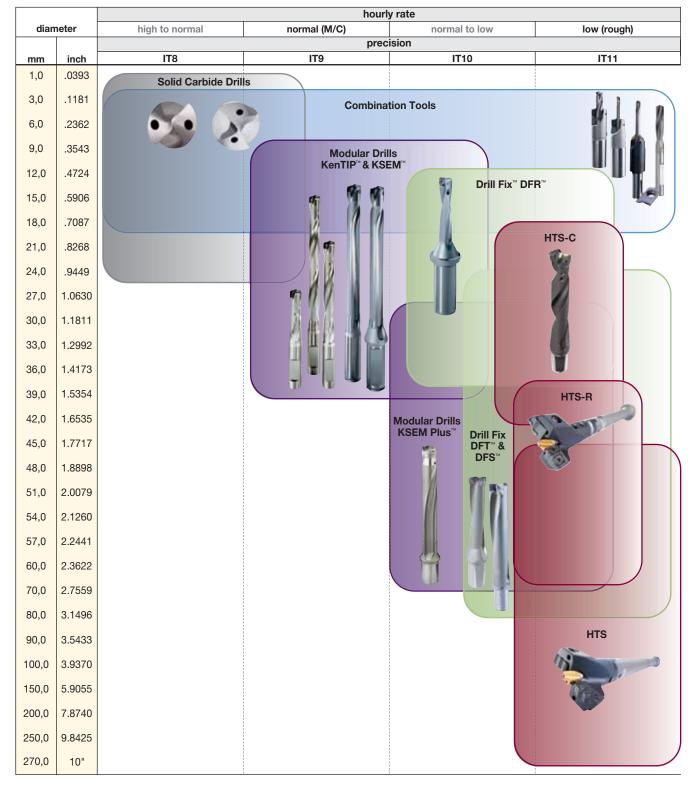
#### **Increase of Productivity and Efficiency**

- Material and application-specific solutions.
- Maximum metal removal rates and repeatability.
- Standardised design platforms for special tools based on "proven solutions" for individual optimisations and combination tools.

#### **Control of Total Tooling Costs**

- High tool utilisation through material and application specific solutions.
- Process-safe regrinding service.
- Reduction of stocks through efficient modular concepts.
- Multiple platforms per application to achieve the most cost-efficient solution.

### **Solid Drilling**



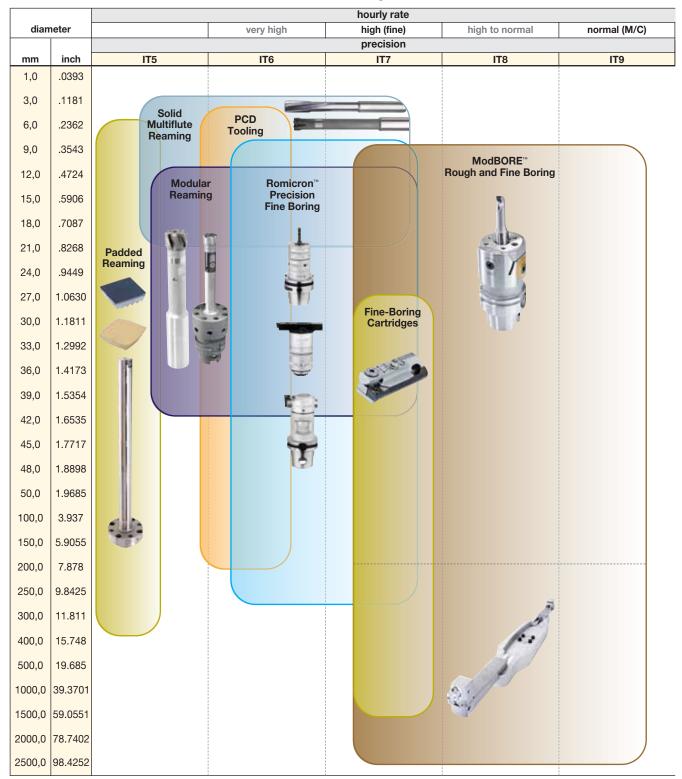
2 www.kennametal.com



#### **Optimised Purchase**

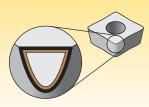
- Broad selection of holemaking tools.
- Integrated into a full range of cutting tools and service offers.
- Onsite service for an efficient development and implementation of machining solutions.

### **Hole Finishing**

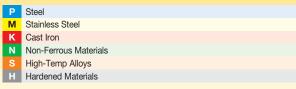


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Coatings provide high-speed capability and are engineered for finishing to heavy roughing.



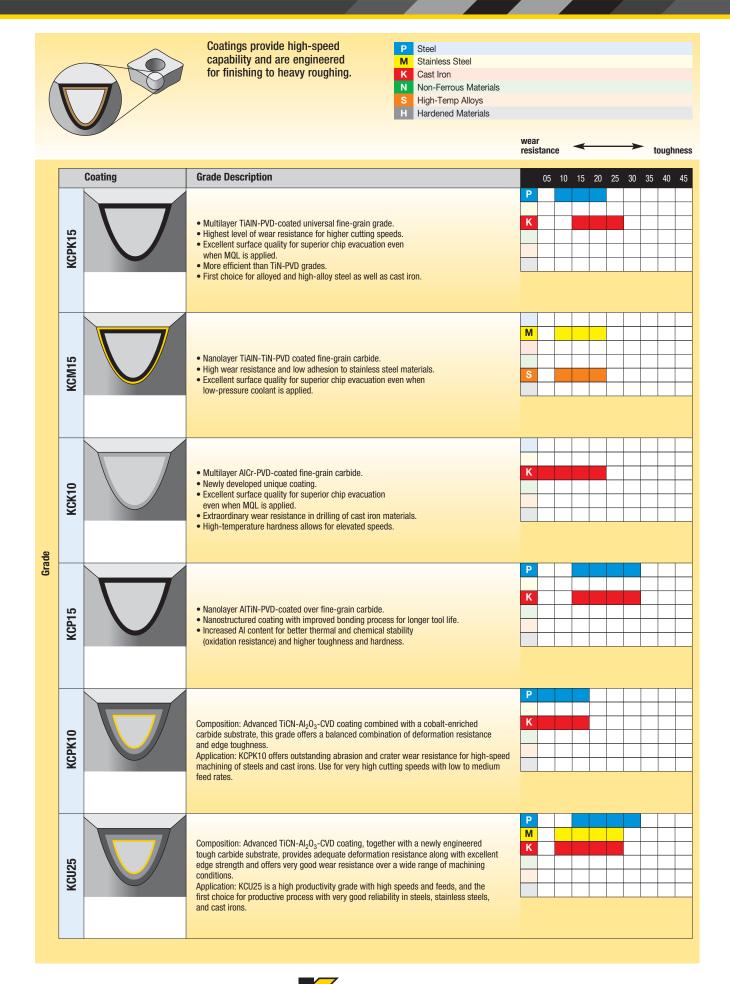
wear resistance toughness Coating **Grade Description** 05 10 15 20 25 40 45 • Uncoated finest grain carbide. N Highly wear-resistant grade.
 First choice for precision drilling of non-ferrous materials.
 High cutting performance with excellent surface quality due to the excellent geometry of the TX drill. 歪 · Uncoated carbide. Highly wear-resistant grade.
 Excellent surface quality for superior chip evacuation.
 First choice for flat-bottom drilling of non-ferrous materials. • Uncoated finest grain carbide. · Highly wear-resistant grade. Excellent surface quality for superior chip flow.
Used in deep-hole drilling applications in non-ferrous materials. Grade Uncoated carbide grade with high degree of temperature resistance.
Suitable for cast iron material, non-ferrous materials, and titanium alloys.
High cutting performance, safe drilling process. K10 • Dry machining also with cooling lubricants. Uncoated finest grain carbide.
First choice for reaming under normal conditions.
High-precision carbide grade for free-machining non-ferrous alloys. K605 Uncoated carbide grade.

Enables very sharp cutting edges.

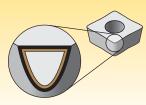
Primarily used for super-alloys and titanium. K715 • Ideal for aerospace materials, including non-ferrous materials.



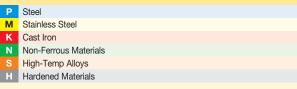


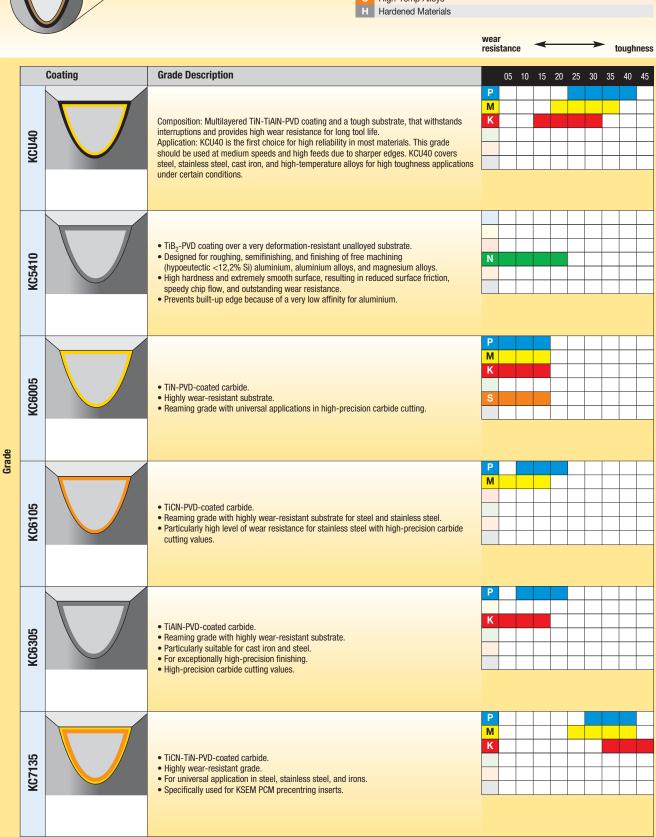






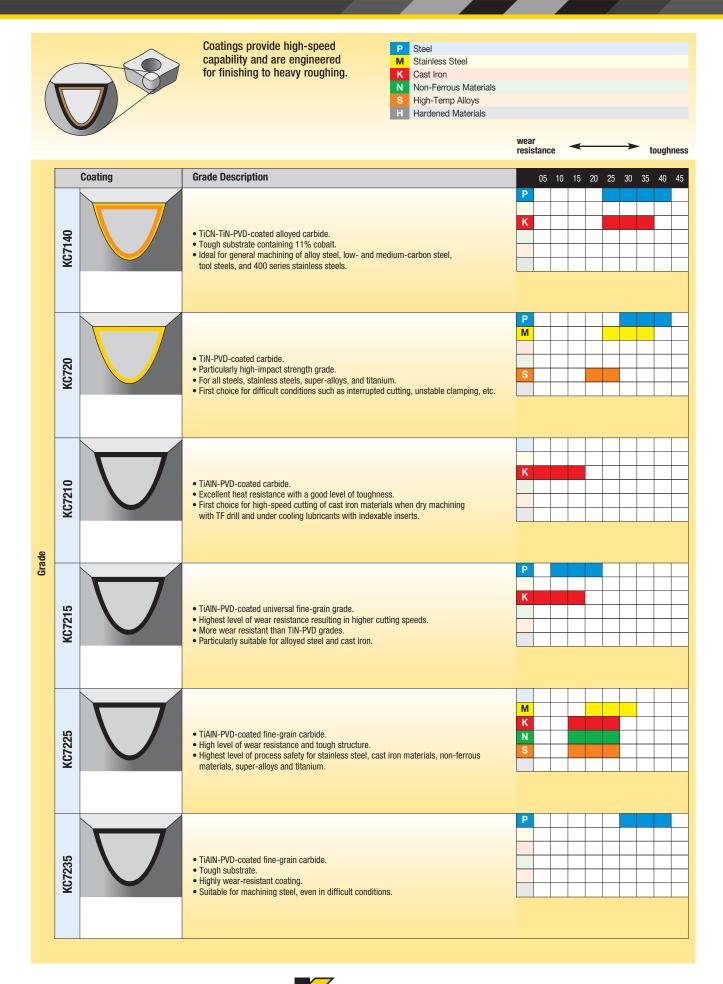
Coatings provide high-speed capability and are engineered for finishing to heavy roughing.



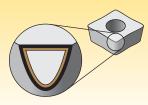












Coatings provide high-speed capability and are engineered for finishing to heavy roughing.

P Steel
M Stainless Steel
K Cast Iron
N Non-Ferrous Materials
S High-Temp Alloys
H Hardened Materials

