

# EXCEED EXPECTATIONS

with  
**Solid Carbide End Mills  
from Union Tool**



## Carbide End Mills

Our extensive product series covers a wide range of applications and more details are available in our full catalogue, or at our web site

[www.usuniontool.com](http://www.usuniontool.com)



ISO 14001  
JQA-EM0765



ISO 9001  
JQA-0694

**U.S. UNION TOOL, INC.**

6955 Aragon Circle, Buena Park  
CA 90620-1118 USA

Telephone: (714) 521-6242

Fax: (714) 521-8642

E-mail: [info@usuniontool.com](mailto:info@usuniontool.com)

# HIGH PERFORMANCE Carbide End Mills

UNION TOOL



PRODUCT RANGE  
OVERVIEW



**U.S. UNION TOOL, INC.**



# Product Range Overview

Product Code | Range mm | Number of Flutes | Base Carbide | Coating Type | Radius / Corner Radius | Helix Angle | Shank Diameter | Work Piece Applications |  Most Suitable  Suitable | Cast Iron | Aluminium Alloys | Graphite | Copper Alloys | Plastic

Product Code	Range mm	Number of Flutes	Base Carbide	Coating Type	Radius / Corner Radius	Helix Angle	Shank Diameter	Work Piece Applications	<input type="checkbox"/> Most Suitable	<input type="checkbox"/> Suitable	Cast Iron	Aluminium Alloys	Graphite	Copper Alloys	Plastic
 <b>Super Excellent Ball</b>	R0.1-R5	2	Super MG	HARD MAX	R $\pm 0.003$ / R $\pm 0.005$ Size Dependent	30°	Shank $\emptyset$ 0/-0.005	Please see specifications in main catalogue for each product type							
 <b>HB</b>	R0.05-R6	2	Super MG	HARD MAX	R $\pm 0.005$ / R $\pm 0.007$ Size Dependent	30°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>HLB</b>	R0.05-R3	2	Super MG	HARD MAX	R $\pm 0.005$	30°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>HTNB</b>	R0.1-R2	2	Super MG	HARD MAX	R $\pm 0.005$	30°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>HMS</b>	$\emptyset$ 1.0-12	3-6	Super MG	HARD MAX		45°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>HLRS</b>	$\emptyset$ 0.4-6	2	Super MG	HARD MAX	R $\pm 0.005$	30°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>DCB/DCBL</b>	R0.5-R6	2	MG	DIA COAT	R $\pm 0.01$	35°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>USB</b>	R0.5 - R5	2	Super MG	UT COAT	R $\pm 0.005$ / R $\pm 0.007$ Size Dependent	30°	Shank $\emptyset$ 0/-0.005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>ITS</b>	$\emptyset$ 0.5-3	2	Super MG	TiAlN		30°	Shank $\emptyset$ 0/-0.005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>CRN-BM</b>	R0.1-1	2	Super MG	CrN	R $\pm 0.01$	30°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>CRN-ES</b>	$\emptyset$ 0.2-12	2-4	Super MG	CrN		20° / 25°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>CPR</b>	$\emptyset$ 0.5-6	2	MG			30°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>CPRB</b>	R0.2-R3	2	Super MG		R $\pm 0.01$	30°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 <b>CAS</b>	$\emptyset$ 3.0-12	2	MG			45°	Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <b>C-UMD</b>	$\emptyset$ 0.1-3	2	Super MG	UT COAT			Shank $\emptyset$ 0/-0.005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	KOVAR		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>