



CARBIDE



TUNGSTEN CARBIDE END MILL



Product Catalogue
info@cdcnctools.com



CARBIDE

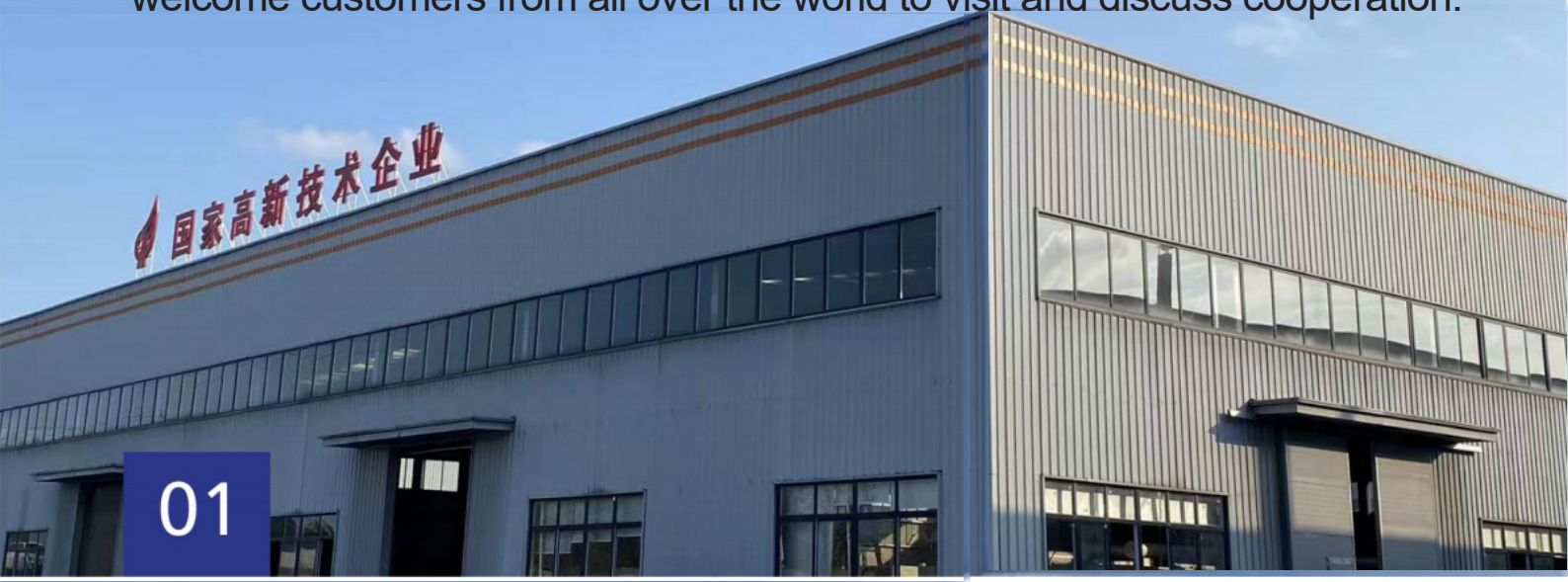
FACTORY INTRODUCTION

Zhuzhou Chuangde Cemented Carbide Co., Ltd., located in Zhuzhou, Hunan, China, specializes in the manufacturing and wholesale sales of CNC blades, end mills, carbide burrs, carbide wear parts, carbide heads for mining and tungsten alloys. We have a highly qualified, experienced and proactive team dedicated to providing customers with high-quality and lasting solutions to ensure the creation of excellent value in the global market.

The company provides a full range of domestic and imported carbide products to meet the needs of different customers, and tailor-made non-standard carbide parts and CNC cutting tools for customers. We have a team of 10 professional sales and engineers who can provide technical support and sales solutions to ensure that the products meet various quality requirements.

We have passed ISO9001:2015 quality management system certification and ISO14001 environmental management system certification, and have established a rigorous quality assurance system to ensure that all products meet international first-class standards. Our products are widely used in North America, Latin America, Europe, Southeast Asia, South Africa and other regions.

The company adheres to the core concept of "based on service, survive by quality, and develop by technology", always takes customers as the center, and continuously promotes the progress of the industry with flexible and efficient services and innovative technologies. We warmly welcome customers from all over the world to visit and discuss cooperation.



Our Buesiness Philosophy Are As Follows:

1. Be an enterprise with trust and respect.
2. Be the world's biggest cutting tools manufacturer.
3. Bring valuable products and good reputation for each customer.





CARBIDE

MANUFACTURING PROCESS



Wet Grinding



Pressing



Sintering



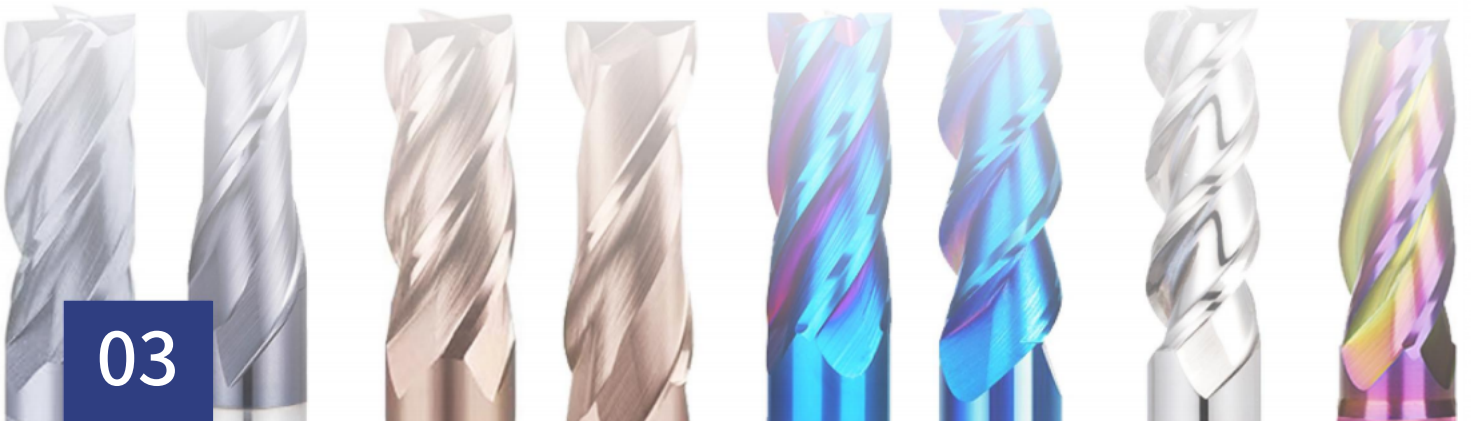
Tooth Punching



Testing






Shipping



Standard End Mill

4F FLAT/SQUARE	2F BALL NOSE	4F RADIUS/BULL NOSE	3F ALUMINIUM
			

HRC & Coating Introduction

	HRC45	Black Coating	TiAlN
	HRC55	Bronze Coating	TiSiN
	HRC65	Nano Blue Coating	TiAlSiN

Rods Report

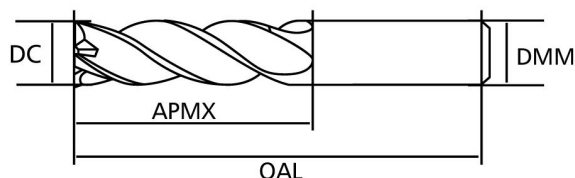
Chemical Composition		
Tungsten Carbide (WC) 88-90%	Other Carbides 1.0-2.0%	Cobalt (Total Binder content) 9-10%
Physical Properties		
A. Hardness: 1500-1650 HV30 (91.2-92.2HRA).		
B. Density: 14.9-15.0 g/cm ³ .		
C. Average Carbide Grain Size: 0.6-0.8micron.		
D. Average Tungsten Carbide Grain Size(F.S.S.S): 0.6-0.8 micron.		
E. Magnetic Saturation: 134-160 Gauss cm ³ /g (CoM 8.4-10.0%).		
F. Coercive Force: 250-280 Oersteds (19.89-22.3 KA/m).		
G. Transverse Rupture Strength on Polished Test Piece: ≥3200N/mm ² .		



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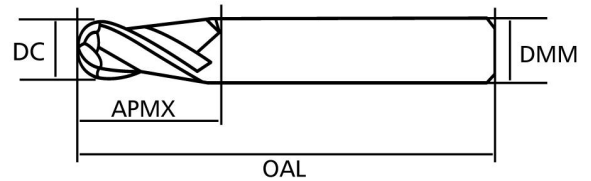
FLAT / SQUARE END MILL



4 Flutes	Helix Angle	Coating	Processing
		TiAlN TiSiN TiAlSiN	

Model	Description (mm)				Flutes (NOF)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)	
4F-3*8-4*50	3	8	4	50	4
4F-4*10-4*50	4	10	4	50	4
4F-4*16-4*75	4	16	4	75	4
4F-4*20-4*100	4	20	4	100	4
4F-5*13-5*50	5	13	5	50	4
4F-5*13-6*50	5	13	6	50	4
4F-6*15-6*50	6	15	6	50	4
4F-6*20-6*75	6	20	6	75	4
4F-6*30-6*100	6	30	6	100	4
4F-6*30-6*150	6	30	6	150	4
4F-8*20-8*60	8	20	8	60	4
4F-8*25-8*75	8	25	8	75	4
4F-8*35-8*100	8	35	8	100	4
4F-8*40-8*150	8	40	8	150	4
4F-10*25-10*75	10	25	10	75	4
4F-10*40-10*100	10	40	10	100	4
4F-10*50-10*150	10	50	10	150	4
4F-12*30-12*75	12	30	12	75	4
4F-12*45-12*100	12	45	12	100	4
4F-12*55-12*150	12	55	12	150	4
4F-14*45-14*100	14	45	14	100	4
4F-14*65-14*150	14	65	14	150	4
4F-16*45-16*100	16	45	16	100	4
4F-16*70-16*150	16	70	16	150	4

BALL NOSE END MILL



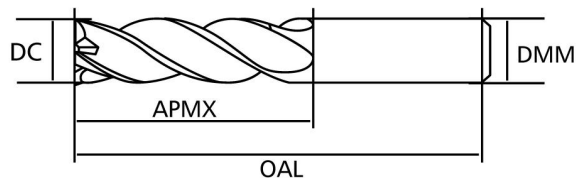
2 Flutes	Helix Angle	Coating	Processing
		TiAlN TiSiN TiAlSiN	

Model	Description (mm)				Flutes (NOF)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)	
2F-R1.5*6-4*50	3	6	4	50	2
2F-R2*8-4*50	4	8	4	50	2
2F-R2*8-4*75	4	8	4	75	2
2F-R2*8-4*100	4	8	4	100	2
2F-R2.5*10-5*50	5	10	5	50	2
2F-R2.5*10-6*50	5	10	6	50	2
2F-R3*12-6*50	6	12	6	50	2
2F-R3*12-6*75	6	12	6	75	2
2F-R3*12-6*100	6	12	6	100	2
2F-R3*12-6*150	6	12	6	150	2
2F-R4*16-8*60	8	16	8	60	2
2F-R4*16-8*75	8	16	8	75	2
2F-R4*16-8*100	8	16	8	100	2
2F-R4*16-8*150	8	16	8	150	2
2F-R5*20-10*75	10	20	10	75	2
2F-R5*20-10*100	10	20	10	100	2
2F-R5*20-10*150	10	20	10	150	2
2F-R6*24-12*75	12	24	12	75	2
2F-R6*24-12*100	12	24	12	100	2
2F-R6*24-12*150	12	24	12	150	2
2F-R7*28-14*100	14	28	14	100	2
2F-R7*28*14*150	14	28	14	150	2
2F-R8*32-16*100	16	32	16	100	2
2F-R8*32-16*150	16	32	16	150	2



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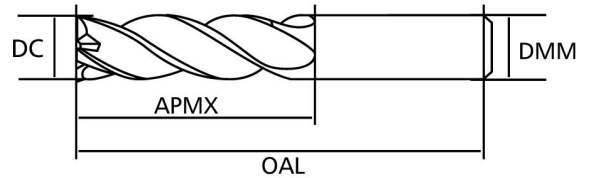
RADIUS / BULL NOSE END MILL



4 Flutes	Helix Angle	Coating	Processing
		TiAlN TiSiN TiAlSiN	

Model	Description (mm)				Flutes (NOF)	Corner Radius (RE)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)		
4F-3R*8-4*50	3	8	3	50	4	R (Customized)
4F-4R*10-4*50	4	10	4	50	4	
4F-4R*16-4*75	4	16	4	75	4	
4F-4R*20-4*100	4	20	4	100	4	
4F-5R*13-5*50	5	13	5	50	4	
4F-5R*13-6*50	5	13	5	50	4	
4F-6R*15-6*50	6	15	6	50	4	
4F-6R*20-6*75	6	20	6	75	4	
4F-6R*30-6*100	6	30	6	100	4	
4F-8R*20-8*60	8	20	8	60	4	
4F-8R*25-8*75	8	25	8	75	4	
4F-8R*35-8*100	8	35	8	100	4	
4F-9R*23-10*75	9	23	9	75	4	
4F-10R*25-10*75	10	25	10	75	4	
4F-10R*40-10*100	10	40	10	100	4	
4F-12R*30-12*75	12	30	12	75	4	
4F-12R*45-12*100	12	45	12	100	4	

ALUMINIUM END MILL



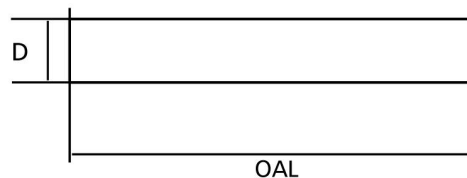
3 Flutes	Helix Angle	Processing

Model	Description (mm)				Flutes (NOF)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)	
3F-3*8-4*50	3	8	4	50	3
3F-4*10-4*50	4	10	4	50	3
3F-4*16-4*75	4	16	4	75	3
3F-4*20-4*100	4	20	4	100	3
3F-5*13-5*50	5	13	5	50	3
3F-5*13-6*50	5	13	6	50	3
3F-6*15-6*50	6	15	6	50	3
3F-6*20-6*75	6	20	6	75	3
3F-6*30-6*100	6	30	6	100	3
3F-6*30-6*150	6	30	6	150	3
3F-8*20-8*60	8	20	8	60	3
3F-8*25-8*75	8	25	8	75	3
3F-8*35-8*100	8	35	8	100	3
3F-8*40-8*150	8	40	8	150	3
3F-10*25-10*75	10	25	10	75	3
3F-10*40-10*100	10	40	10	100	3
3F-10*50-10*150	10	50	10	150	3
3F-12*30-12*75	12	30	12	75	3
3F-12*45-12*100	12	45	12	100	3
3F-12*55-12*150	12	55	12	150	3
3F-14*45-14*100	14	45	14	100	3
3F-14*65-14*150	14	65	14	150	3
3F-16*45-16*100	16	45	16	100	3
3F-16*70-16*150	16	70	16	150	3



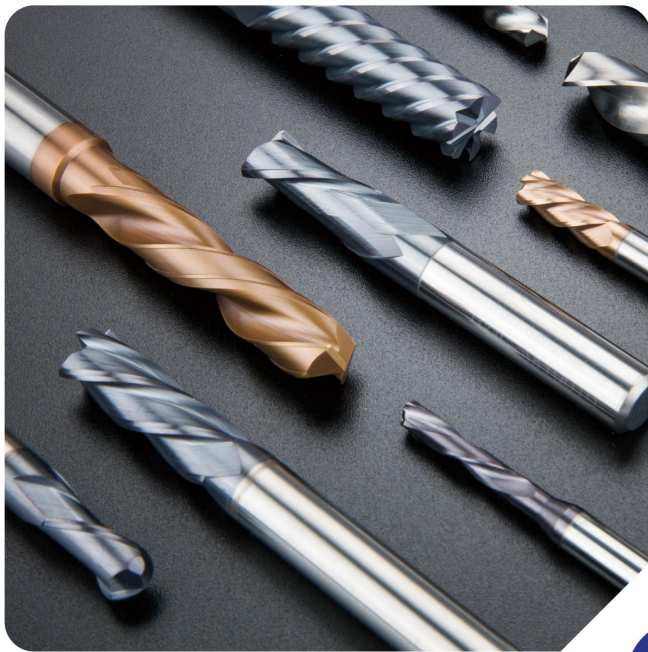
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POLISHED RODS



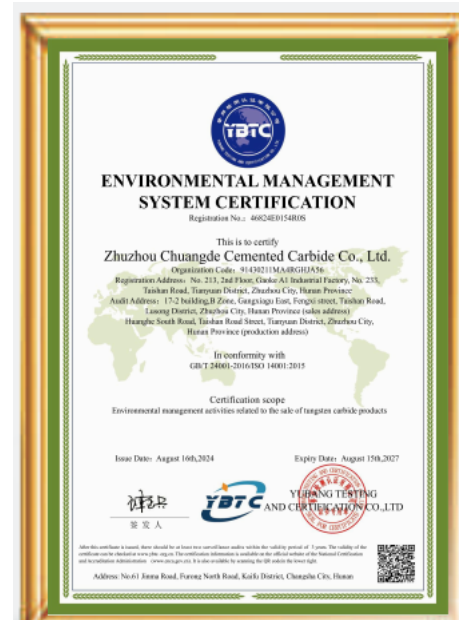
Model	Diameter (D)	Length (OAL)	MOQ
3*50	3	50	100
3*75	3	75	100
3*100	3	100	100
3*330	3	330	100
4*50	4	50	100
4*75	4	75	100
4*100	4	100	100
4*150	4	150	100
4*330	4	330	100
5*50	5	50	100
5*100	5	100	100
5*150	5	150	100
5*330	5	330	100
6*50	6	50	100
6*75	6	75	100
6*100	6	100	100
6*150	6	150	100
6*330	6	330	100
8*60	8	60	100
8*100	8	100	100
8*150	8	150	100
8*330	8	330	100
10*75	10	75	100
10*100	10	100	100
10*150	10	150	100
10*330	10	330	100
12*100	12	100	100
12*150	12	150	100
12*330	12	330	100
14*100	14	100	100
14*150	14	150	100

PRODUCT DISPLAY





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