



Zhuzhou Ruiao Tungsten Carbide Co.,Ltd

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Grade	Applications
C2 Uncoated	High wear resistance and high strength; machining chilled cast iron and refractory steel, finishing of normal cast iron.
C5 Uncoated	Excellent in strength, impact resistance and resistance to thermal shock ; Rough turning, rough planing and semi planing of Carbon steel and alloy steel.
ZK10UF	Fine-grained alloy, good wear resistance and high strength. Semi-finishing and finishing of cast iron and nonferrous metals. It is the unique material for making of solid carbide tools for holing.
ZK30UF	Fine grain grade. Excellent wear resistance, high in strength and impact resistance. Machining of cast irons, nonferrous metals and non-metallic materials. It is the unique material of solid carbide tools for holing.
ZP25	Fine in wear resistance and toughness; Rough turning, milling, planing and depth drilling of carbon steel, cast steel, manganese steel and alloy steel.
ZP35	A versatile grade, high in red hardness, strength and resistance to impact and thermal shocking. Roughing and strong cutting of steel and cast steel.

Turning Inserts							
TYPE			Dimension(mm)				
			L	I.C	S	d	r
	(ISO)	(ANSI)					
TNMA	160404	331	16.5	9.525	4.76	3.81	0.4
	160408	332	16.5	9.525	4.76	3.81	0.8
	220404	431	22	12.7	4.76	5.16	0.4
	220408	432	22	12.7	4.76	5.16	0.8
	220412	433	22	12.7	4.76	5.16	1.2
TNMG-V	160404-V	331	16.5	9.525	4.76	3.81	0.4
	160408-V	332	16.5	9.525	4.76	3.81	0.8
	220404-V	431	22	12.7	4.76	5.16	0.4
	220408-V	432	22	12.7	4.76	5.16	0.8
	220412-V	433	22	12.7	4.76	5.16	1.2
TNMG-ZM	160404-ZM	331	16.5	9.525	4.76	3.81	0.4
	160408-ZM	332	16.5	9.525	4.76	3.81	0.8
	220404-ZM	431	22	12.7	4.76	5.16	0.4
	220408-ZM	432	22	12.7	4.76	5.16	0.8
	220412-ZM	433	22	12.7	4.76	5.16	1.2

Milling Inserts

TYPE			Dimension(mm)		
			L	I.C	S
SPAN	(ISO)	(ANSI)			
	1203EDL	43EDL	12.7	12.7	4.76
	1203EDR	43EDR	12.7	12.7	4.76
	1203EDTL	43EDTL	12.7	12.7	4.76
	1203EDTR	43EDTR	12.7	12.7	4.76
	1504EDL	53EDL	15.875	15.875	4.76
	1504EDR	53EDR	15.875	15.875	4.76
	1504EDTL	53EDTL	15.875	15.875	4.76
	1504EDTR	53EDTR	15.875	15.875	4.76
	1904EDL	63EDL	19.05	19.05	4.76
	1904EDR	63EDR	19.05	19.05	4.76
	1904EDTL	63EDTL	19.05	19.05	4.76
	1904EDTR	63EDTR	19.05	19.05	4.76
TPKN	1103PDR	22PDR	11	6.35	3.18
	1103PDL	22PDL	11	6.35	3.18
	1103PDTR	22PDTR	11	6.35	3.18
	1103PDTL	22PDTL	11	6.35	3.18
	1603PDR	32PDR	16.5	9.525	4.76
	1603PDL	32PDL	16.5	9.525	4.76
	1603PDTR	32PDTR	16.5	9.525	4.76
	1603PDTL	32PDTL	16.5	9.525	4.76
	1604PDR	33PDR	16.5	9.525	4.76
	1604PDL	33PDL	16.5	9.525	4.76
	1604PDTR	33PDTR	16.5	9.525	4.76
	1604PDTL	33PDTL	16.5	9.525	4.76
	2204PDR	43PDR	22	12.7	4.76
	2204PDL	43PDL	22	12.7	4.76
	2204PDTR	43PDTR	22	12.7	4.76
	2204PDTL	43PDTL	22	12.7	4.76