

Main product include carbide drill, Deep hole drill, Milling cutters endmill, reamer, Pcd and Cbn tools and inserts, Threadmills and other standards carbide tools and non-standard customized forming tools.



PROFESSIONAL CUTTING TOOL

- Performance ■
- Precision ■
- Productivity ■
- Profitability ■



Aeronautics and Astronautics



The Car Industry



The Electronics Industry

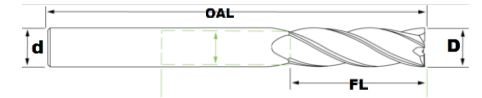


Mould Manufacturing Industry

SOLID CARBIDE ENDMILL 4FLUTE

STANDARD LENGTH

55HRC TiSiN Coating



: mm metric

Description	D	d	FL	OAL
PTI-CEM40103	1	3	3	50
PTI-CEM41503	1.5		4	
PTI-CEM40203	2		5	
PTI-CEM42503	2.5		6	
PTI-CEM40303	3		8	
PTI-CEM43504	3.5	4	10	60
PTI-CEM40304	4		12	
PTI-CEM44505	4.5	5	15	75
PTI-CEM40505	5		20	
PTI-CEM40606	6	6	30	100
PTI-CEM40707	7			
PTI-CEM40708	7	8	45	100
PTI-CEM40808	8			
PTI-CEM40910	9	10	75	100
PTI-CEM41010	10			
PTI-CEM41112	11	12	100	100
PTI-CEM41212	12			
PTI-CEM41414	14	14	150	100
PTI-CEM41616	16			
PTI-CEM41818	18	18	200	100
PTI-CEM42020	20			
PTI-CEM42525	25	25	250	100

LONG SERIES LENGTH

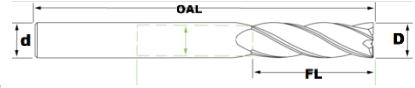
Description	D	d	FL	OAL
PTI-CEM40104-75	1	4	3	75
PTI-CEM41504-75	1.5		5	
PTI-CEM40204-75	2		6	
PTI-CEM40304-100	3		12	
PTI-CEM40404-100	4		16	
PTI-CEM40505-100	5	5	20	100
PTI-CEM40606-100	6		24	
PTI-CEM40707-100	7	7	32	100
PTI-CEM40708-100		8		
PTI-CEM40808-100	8	10	44	150
PTI-CEM41010-100	10			
PTI-CEM41212-100	12	12	45	150
PTI-CEM40606-150	6			
PTI-CEM40808-150	8	8	50	150
PTI-CEM41010-150	10			
PTI-CEM41212-150	12	12	55	150
PTI-CEM41414-150	14			
PTI-CEM41616-150	16	16	70	150
PTI-CEM41818-150	18			
PTI-CEM42020-150	20	20	100	150

SOLID CARBIDE ENDMILL 2FLUTE



55HRC TiSiN Coating

STANDARD LENGTH



: mm metric

Description	D	d	FL	OAL
PTI-CEM20103	1	3	3	50
PTI-CEM21503	1.5		4	
PTI-CEM20203	2		5	
PTI-CEM22503	2.5		6	
PTI-CEM20303	3	4	8	60
PTI-CEM23504	3.5		10	
PTI-CEM20304	4	5	12	75
PTI-CEM24505	4.5		15	
PTI-CEM20505	5		20	
PTI-CEM20606	6	6	20	100
PTI-CEM20707	7		30	
PTI-CEM20708	7	8	30	100
PTI-CEM20808	8		45	
PTI-CEM20910	9	10	45	100
PTI-CEM21010	10		70	
PTI-CEM21112	11	12	70	100
PTI-CEM21212	12		100	
PTI-CEM21414	14	14	100	100
PTI-CEM21616	16		150	
PTI-CEM21818	18	18	150	100
PTI-CEM22020	20		200	
PTI-CEM22525	25	25	200	100

LONG SERIES LENGTH

Description	D	d	FL	OAL
PTI-CEM20104-75	1	4	3	75
PTI-CEM21504-75	1.5		5	
PTI-CEM20204-75	2		6	
PTI-CEM20304-100	3	5	12	100
PTI-CEM20404-100	4		16	
PTI-CEM20505-100	5	6	20	100
PTI-CEM20606-100	6		24	
PTI-CEM20707-100	7	7	32	100
PTI-CEM20708-100			44	
PTI-CEM20808-100	8	8	44	100
PTI-CEM21010-100	10		50	
PTI-CEM21212-100	12	12	50	100
PTI-CEM20606-150	6		70	
PTI-CEM20808-150	8	8	70	100
PTI-CEM21010-150	10		100	
PTI-CEM21212-150	12	12	100	100
PTI-CEM21414-150	14		150	
PTI-CEM21616-150	16	16	150	100
PTI-CEM21818-150	18		200	
PTI-CEM22020-150	20	20	200	100

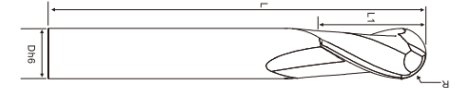
SOLID CARBIDE BALL ENDMILL 2FLUTE



55HRC TiSiN Coating

STANDARD LENGTH

CODE / PTI-CEB



ALUMINUM/BRASS/PLASTIC



Description	D	d	FL	OAL
PTI-CEB20103 / AL	1	3	3	50
PTI-CEB21503 / AL	1.5		4	
PTI-CEB20203 / AL	2		5	
PTI-CEB22503 / AL	2.5		6	
PTI-CEB20303 / AL	3	4	8	60
PTI-CEB20404 / AL	4		10	
PTI-CEB20505 / AL	5	5	12	75
PTI-CEB20606 / AL	6		15	
PTI-CEB20808 / AL	8		20	
PTI-CEB21010 / AL	10	10	20	60
PTI-CEB21212 / AL	12		30	
PTI-CEB21414 / AL	14	14	30	75
PTI-CEB21616 / AL	16		45	
PTI-CEB22020 / AL	20	20	45	100

LONG SERIES LENGTH

Description	D	d	FL	OAL
PTI-CEM30104-75 /AL	1	4	3	75
PTI-CEM31504-75 /AL	1.5		5	
PTI-CEM30204-75 /AL	2		6	
PTI-CEM30304-100 /AL	3	5	12	100
PTI-CEM30404-100 /AL	4		16	
PTI-CEM30505-100 /AL	5	6	20	100
PTI-CEM30606-100 /AL	6		24	
PTI-CEM30808-100 /AL	8	8	32	100
PTI-CEM31010-100 /AL	10		44	
PTI-CEM31212-100 /AL	12	12	44	100
PTI-CEM30606-150 /AL	6		50	
PTI-CEM30808-150 /AL	8	8	50	100
PTI-CEM31010-150 /AL	10		70	
PTI-CEM31212-150 /AL	12	12	70	100
PTI-CEM31616-150 /AL	16		100	
PTI-CEM32020-150 /AL	20	20	100	100

d (刃径)	Tolerance (公差)
φ<3	0~-0.02
3≤φ≤10	0~-0.03
φ>10	0~-0.04



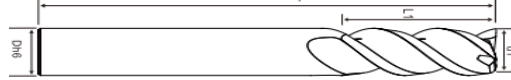
SOLID CARBIDE ENDMILL 3FLUTE



STANDARD LENGTH

ALUMINUM/BRASS/PLASTIC

55HRC TiSin Coating



Description	D	d	FL	OAL
PTI-CEM30103	1	3	3	50
PTI-CEM31503	1.5		4	
PTI-CEM30203	2		5	
PTI-CEM32503	2.5		6	
PTI-CEM30303	3		8	
PTI-CEM33504	3.5	4	10	60
PTI-CEM30404	4		12	
PTI-CEM34505	4.5	5	15	75
PTI-CEM30505	5		20	
PTI-CEM30606	6	6	30	100
PTI-CEM30707	7			
PTI-CEM30708	7	8	45	150
PTI-CEM30808	8			
PTI-CEM30910	9	10	70	150
PTI-CEM31010	10			
PTI-CEM31112	11	12	100	150
PTI-CEM31212	12			
PTI-CEM31414	14	14	150	200
PTI-CEM31616	16			
PTI-CEM31818	18	18	200	250
PTI-CEM32020	20			
PTI-CEM32525	25	25	250	300

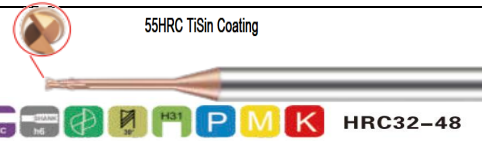
LONG SERIES LENGTH

Description	D	d	FL	OAL
PTI-CEM30104-75	1	4	3	75
PTI-CEM31504-75	1.5		5	
PTI-CEM30204-75	2		6	
PTI-CEM30304-100	3		12	
PTI-CEM30404-100	4		16	
PTI-CEM30505-100	5	5	20	100
PTI-CEM30606-100	6		24	
PTI-CEM30707-100	7	7	32	150
PTI-CEM30708-100		8		
PTI-CEM30808-100	8	10	44	150
PTI-CEM31010-100	10			
PTI-CEM31212-100	12	12	45	150
PTI-CEM30606-150	6			
PTI-CEM30808-150	8	8	50	150
PTI-CEM31010-150	10			
PTI-CEM31212-150	12	12	55	150
PTI-CEM31414-150	14			
PTI-CEM31616-150	16	16	60	150
PTI-CEM31818-150	18			
PTI-CEM32020-150	20	70	200	250

FLAT LONG NECK CARBIDE ENDMILL



55HRC TiSin Coating



: mm metric

Description	D	d	L1	L2	OAL/L
PTI-LN0.5-1-4	0.5	4	1	4	50
PTI-LN0.5-1-6	0.5		1	6	
PTI-LN0.5-1-8	0.5		1	8	
PTI-LN0.5-1-10	0.5		1	10	
PTI-LN0.6-1.2-4	0.6		1.2	4	
PTI-LN0.6-1.2-6	0.6		1.2	6	
PTI-LN0.6-1.2-8	0.6		1.2	8	
PTI-LN0.6-1.2-10	0.6		1.2	10	
PTI-LN0.8-1.6-4	0.8		1.6	4	
PTI-LN0.8-1.6-6	0.8		1.6	6	
PTI-LN0.8-1.6-8	0.8	1.6	8		
PTI-LN0.8-1.6-10	0.8	1.6	10		
PTI-LN1-2-10	1	2	10	50	
PTI-LN1-2-12	1	2	12		
PTI-LN1-2-16	1	2	16		
PTI-LN1-2-20	1	2	20		
PTI-LN1-2-25	1	2	25		
PTI-LN2-3-10	2	3	10		
PTI-LN2-3-12	2	3	12		
PTI-LN2-3-16	2	3	16		
PTI-LN2-3-20	2	3	20		
PTI-LN2-3-25	2	3	25		

FLAT MICRO CARBIDE ENDMILL 2F



55HRC TiSin Coating



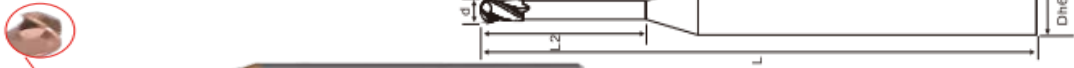
: mm metric

Description	D	d	FL	OAL/L
PTI-MC0.2-0.3-2F	0.2	4	0.4	50
PTI-MC0.3-0.6-2F	0.3		0.6	
PTI-MC0.4-0.8-2F	0.4		0.8	
PTI-MC0.5-1-2F	0.5		1	
PTI-MC0.6-1.2-2F	0.6		1.2	
PTI-MC0.7-1.4-2F	0.7		1.4	
PTI-MC0.8-1.6-2F	0.8		1.6	
PTI-MC0.9-1.8-2F	0.9		1.8	

BALL LONG NECK CARBIDE ENDMILL



55HRC TiSiN Coating



UMC HSS H31 P M K HRC32-48

: mm metric

Description	D	d	L1	L2	OAL/L
PTI-LN0.5-1-4-BN	0.5	4	1	4	50
PTI-LN0.5-1-6-BN	0.5		1	6	
PTI-LN0.5-1-8-BN	0.5		1	8	
PTI-LN0.5-1-10-BN	0.5		1	10	
PTI-LN0.6-1.2-4-BN	0.6		1.2	4	
PTI-LN0.6-1.2-6-BN	0.6		1.2	6	
PTI-LN0.6-1.2-8-BN	0.6		1.2	8	
PTI-LN0.6-1.2-10-BN	0.6		1.2	10	
PTI-LN0.8-1.6-4-BN	0.8		1.6	4	
PTI-LN0.8-1.6-6-BN	0.8		1.6	6	
PTI-LN0.8-1.6-8-BN	0.8		1.6	8	
PTI-LN0.8-1.6-10-BN	0.8		1.6	10	
PTI-LN1-2-10-BN	1		2	10	
PTI-LN1-2-12-BN	1		2	12	
PTI-LN1-2-16-BN	1		2	16	
PTI-LN1-2-20-BN	1		2	20	
PTI-LN1-2-25-BN	1		2	25	
PTI-LN2-3-10-BN	2		3	10	
PTI-LN2-3-12-BN	2		3	12	
PTI-LN2-3-16-BN	2		3	16	
PTI-LN2-3-20-BN	2		3	20	
PTI-LN2-3-25-BN	2		3	25	

MICRO BALL CARBIDE ENDMILL 2F



55HRC TiSiN Coating



UMC HSS H31 P M K HRC32-48

: mm metric

Description	D	d	FL	OAL/L
PTI-MC0.2-0.3-BN	0.2	4	0.4	50
PTI-MC0.3-0.6-BN	0.3		0.6	
PTI-MC0.4-0.8-BN	0.4		0.8	
PTI-MC0.5-1-BN	0.5		1	
PTI-MC0.6-1.2-BN	0.6		1.2	
PTI-MC0.7-1.4-BN	0.7		1.4	
PTI-MC0.8-1.6-BN	0.8		1.6	
PTI-MC0.9-1.8-BN	0.9		1.8	

SOLID CARBIDE BULLNOSE ENDMILL 4FLUTE



STANDARD LENGTH

55HRC TiSiN Coating



UMC HSS H31 P M K HRC32-48

: mm metric

Description	D	R	d	FL	OAL			
PTI-CEM403R0.5	3	R0.5	3	8	50			
PTI-CEM403R1		R1						
PTI-CEM40404R0.5	4	R0.5	4	10		60		
PTI-CEM40404R1		R1						
PTI-CEM40606R0.5	6	R0.5	6	15			75	
PTI-CEM40606R1		R1						
PTI-CEM40808R0.5	8	R0.5	8	20				75
PTI-CEM40808R1		R1						
PTI-CEM40808R2	R2							
PTI-CEM41010R0.5	10	R0.5	10	25				
PTI-CEM41010R1		R1						
PTI-CEM41010R2	R2							
PTI-CEM1212R0.5	12	R0.5	12	30	75			
PTI-CEM1212R1		R1						
PTI-CEM1212R2	R2							

LONG SERIES LENGTH

Description	D	R	d	FL	OAL				
PTI-CEM403R0.5-100	4	R0.5	4	20	100				
PTI-CEM403R1-100		R1							
PTI-CEM404R0.5-100	6	R0.5	6	30		100			
PTI-CEM40404R1-100		R1							
PTI-CEM40606R0.5-100	8	R0.5	8	35			100		
PTI-CEM40606R1-100		R1							
PTI-CEM40808R0.5-100	8	R2	8	35				100	
PTI-CEM40808R2-100		R2							
PTI-CEM41010R0.5-100	10	R0.5	10	40					100
PTI-CEM41010R1-100		R1							
PTI-CEM41010R2-100	R2								
PTI-CEM1212R0.5-100	12	R0.5	12	45	100				
PTI-CEM1212R1-100		R1							
PTI-CEM1212R2-100	R2								

d(刃径)	Tolerance(公差)
φ<3	0~-0.02
3≤φ≤10	0~-0.03
φ>10	0~-0.04



SOLID CARBIDE ROUGHING ENDMILL 4FLUTE

STANDARD LENGTH



55HRC TiSin Coating



LMC **HS** **H31** **P** **M** **K** **HRC32-48**

: mm metric

Description	D	d	FL	OAL
PTI-CEM40404-RH	4	4	10	50
PTI-CEM40505-RH	5	5	13	
PTI-CEM40606-RH	6	6	15	
PTI-CEM40808-RH	8	8	20	60
PTI-CEM41010-RH	10	10	25	75
PTI-CEM41212-RH	12	12	30	

LONG SERIES LENGTH

Description	D	d	FL	OAL
PTI-CEM40808-RH-L	8	8	35	100
PTI-CEM41010-RH-L	10	10	40	
PTI-CEM41212-RH-L	12	12	45	
PTI-CEM41414-RH-L	14	14		
PTI-CEM41616-RH-L	16	16		
PTI-CEM41818-RH-L	18	18		
PTI-CEM42020-RH-L	20	20		

d (刃径)	Tolerance (公差)
$\phi < 3$	0~-0.02
$3 \leq \phi \leq 10$	0~-0.03
$\phi > 10$	0~-0.04

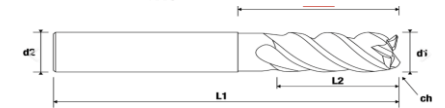


APPLICABLE TABLE OF MACHINABLE MATERIALS

可切削材料适用表

CARBON STEEL 碳素钢		ALLOY STEEL 合金钢		PRE-HARDENED STEEL, HARDENED STEEL 预硬钢、淬硬钢			STAINLESS STEEL 不锈钢	CAST IRON 球墨铸铁	COPPER ALLOY 铜合金	ALUMINUM ALLOY 铝合金	GRAPHITE 石墨	TITANIUM ALLOY 钛合金	HEAT-RESISTING ALLOY 耐热合金	PLASTIC 塑料
~40HRC		~45HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB							
○		○	○	○	○	○	○	○	○			○	○	○

HIGH-PRO UNEQUAL HELIX SOLID CARBIDE ENDMILL 4FLUTE



P **M** **K** **N**

S **H**

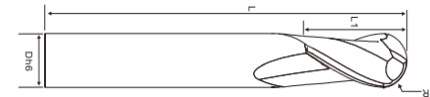
Process Material Under HRC50
Applicable for Tempered Steel, Pre-hardened steel A3,A5, P20, Stainless Steel

65HRC TiCn Coating

: mm metric

Description	D	d	FL	OAL
PTI-UNEX040104	1	4	3	50
PTI-UNEX041504	1.5	4	4	
PTI-UNEX040204	2	2/3	5	
PTI-UNEX042504	2.5	2/3	6	
PTI-UNEX040304	3	2/3	8	
PTI-UNEX040404	4	2/3	10	
PTI-UNEX040505	5	5/6	12	60
PTI-UNEX040606	6	6	15	
PTI-UNEX040808	8	8	20	
PTI-UNEX041010	10	10	30	75
PTI-UNEX041212	12	12		
PTI-UNEX041414	14	14	45	100
PTI-UNEX041616	16	16		
PTI-UNEX042020	20	20		

HIGH-PRO UNEQUAL HELIX SOLID CARBIDE ENDMILL 4FLUTE



P **M** **K** **N**

S **H**

Best Process Material Under HRC50
Applicable for Tempered Steel, Pre-hardened steel A3,A5, P20, Stainless Steel

65HRC TiCn Coating

Description	D	d	FL	OAL
PTI-UNEXBN040104	1	4	3	50
PTI-UNEXBN041504	1.5	4	4	
PTI-UNEXBN040204	2	2/3	5	
PTI-UNEXBN042504	2.5	2/3	6	
PTI-UNEXBN040304	3	2/3	8	
PTI-UNEXBN040404	4	2/3	10	
PTI-UNEXBN040505	5	5/6	12	60
PTI-UNEXBN040606	6	6	15	
PTI-UNEXBN040808	8	8	20	
PTI-UNEXBN041010	10	10	30	75
PTI-UNEXBN041212	12	12		
PTI-UNEXBN041414	14	14	45	100
PTI-UNEXBN041616	16	16		
PTI-UNEXBN042020	20	20		

SOLID CARBIDE FULL THREAD MILLING CUTTER



55HRC TiSiN Coating



: mm metric

Description	M COARSE	DRILL HOLE	D	FL	SHK	OAL	
PTI-THM1.6*0.35	M1.6*0.35	1.25	1.2	3.2	4	50	
PTI-THM2*0.4	M2*0.4	1.6	1.54	4			
PTI-THM2.5*0.45	M2.5*0.45	2.05	1.96	5			
PTI-THM3*0.5	M3*0.5	2.5	2.4	6			
PTI-THM3.5*0.6	M3.5*0.6	2.9	2.75	7			
PTI-THM4*0.5	M4*0.5	3.5	3.2	8			
PTI-THM4*0.7	M4*0.7	3.3	3.15	8.4			
PTI-THM4.5*0.75	M4.5*0.75	3.8	3.5	9			
PTI-THM5*0.8	M5*0.8	4.2	4	10.4			
PTI-THM6*0.5	M6*0.5	5.5	5	12			6
PTI-THM6*0.75	M6*0.75	5.25	5	12			
PTI-THM6*1	M6*1	5	4.8	12	8	60	
PTI-THM8*0.75	M8*0.75	7.25	6	16			
PTI-THM8*1	M8*1	7	6	16			
PTI-THM8*1.25	M8*1.25	6.8	6	16.25			
PTI-THM10*1	M10*1	9	7.9	20		10	73
PTI-THM10*1.25	M10*1.25	8.8	7.9	20			
PTI-THM10*1.5	M10*1.5	8.5	7.7	20			
PTI-THM12*1	M12*1	11	10	24			
PTI-THM12*1.25	M12*1.25	10.75	9.9	24	12	83	
PTI-THM12*1.25	m12*1.5	10.5	9.4	24			
PTI-THM12*1.75	M12*1.75	10.2	9.4	24			
PTI-THM14*1.5	M14*1.5	12.5	11.9	32			
PTI-THM14*2	M14*2	12	10	28			
PTI-THM14*2*11.6	M14*2	12	11.6	28			
PTI-THM16*1	M16*1	15	12	32			
PTI-THM16*1.5	M16*1.5	14.5	11.9	32			
PTI-THM16*2	M16*2	14	12	32			
PTI-THM16*2*13.6	M16*2	14	13.6	32			14
PTI-THM18*2.5	M18*2.5	15.5	14	38			
PTI-THM20*1.5	M20*1.5	18.5	16	40	16	92	
PTI-THM20*2	M20*2	18	12	32			
PTI-THM20*2*16	M20*2	18	16	40	16	83	
PTI-THM20*2.5	M20*2.5	17.5	16	40			

d (刃径)	Tolerance (公差)
φ<3	0~-0.02
3≤φ≤10	0~-0.03
φ>10	0~-0.04



CARBIDE REAMER



STANDARD LENGTH

55HRC TISIN



: mm metric

Description	D	d	FL	OAL
PTI-CRM3*20*50	3	3	20	50
PTI-CRM4*20*50	4	4		
PTI-CRM5*20*50	5	5		
PTI-CRM6*22*60	6	6	22	60
PTI-CRM7*25*55	7	7	25	55
PTI-CRM8*27*60	8	8	27	60
PTI-CRM10*30*70	10	10	30	70
PTI-CRM12*32*75	12	12	32	75
PTI-CRM14*32*75	14	14		
PTI-CRM16*32*75	16	16		

LONG SERIES LENGTH

Description	D	d	FL	OAL
PTI-CRM3*20*100	3	3	35	100
PTI-CRM4*20*100	4	4		
PTI-CRM5*20*100	5	5		
PTI-CRM6*22*100	6	6		
PTI-CRM7*25*100	7	7		
PTI-CRM8*27*100	8	8		
PTI-CRM10*30*100	10	10	30	
PTI-CRM12*32*100	12	12	32	
PTI-CRM14*32*100	14	14		
PTI-CRM16*32*100	16	16		

SINGLE FLUTE ENDMILL DOWNCUT



STANDARD LENGTH

55HRC POLISH FINISH

FOR SOFT & HARD PALSTIC , ALUMINUM

BRASS, COPPER , WOOD

Best in CNC router with high RPM

: mm metric



Description	D	d	FL	OAL
PTI-SFE010104	1	3	12	38
PTI-SFE011504	1.5	3		
PTI-SFE010204	2	3		
PTI-SFE012504	2.5	3	17	45
PTI-SFE010304	3	3		
PTI-SFE010404	4	4		
PTI-SFE010505	5	5		
PTI-SFE010606	6	6	32	50
PTI-SFE010808	8	8	25	60
PTI-SFE011010	10	10	32	70
PTI-SFE011212	12	12		

INNER CORNER RADIUS



HRC32-48



: mm metric



55HRC TiSin Coating

Description	D	d	R	FULL R	OAL
PTI-IRR04R0.5-2T/4T	4	4	0.5	1	50
PTI-IRR04R0.75-2T/4T			0.75	1.5	
PTI-IRR04R1-2T/4T			1	2	
PTI-IRR06R1.5-2T/4T	6	6	1.5	3	
PTI-IRR06R2-2T/4T			2	4	
PTI-IRR06R2.5-2T/4T			2.5	5	
PTI-IRR08R3-2T/4T	8	8	3	6	60
PTI-IRR10R4-2T/4T	10	10	4	8	
PTI-IRR12R5-2T/4T	12	12	5	10	
PTI-IRR12R6-2T/4T	14	14	6	12	75
PTI-IRR16R7-2T/4T			7	14	
PTI-IRR16R8-2T/4T			8	16	



CHAMFERING MILLING CUTTER

55HRC TiSin Coating / 90 DEG



HRC32-48



: mm metric



Description	D	d	FL	OAL
PTI-CHM03-90	3	4	3	50
PTI-CHM04-90	4			100
PTI-CHM04-90-LS				50
PTI-CHM05-90	5	6	4	100
PTI-CHM05-90-LS				50
PTI-CHM06-90	6	8	6	60
PTI-CHM06-90-LS				100
PTI-CHM08-90	8	10	8	75
PTI-CHM08-90-LS				100
PTI-CHM10-90	10	12	10	100
PTI-CHM12-90	12			
PTI-CHM16-90	16	16	14	

d (刃径)	Tolerance (公差)
Φ < 3	0~-0.02
3 ≤ Φ ≤ 10	0~-0.03
Φ > 10	0~-0.04



T-SLOT ENDMILL



HRC32-48



: CHOOSE THICKNESS REQUIRED

55HRC TiSin Coating

: mm metric

Description	D	d	OAL	NECK L	NECK DIA	THICKNESS
PTI-TS3-0.5/1/1.5/2	3	4	50	6	1.5	0.5 / 1 / 1.5 / 2
PTI-TS4-0.5/1/1.5/2	4	4			2	
PTI-TS5-0.5/1/1.5/2/3	5	5			2	0.5 / 1 / 1.5 / 2 / 2.5 / 3
PTI-TS6-0.5/1.0/1.5/2/2.5/3	6	6	9	3		
PTI-TS8-0.5/1.0/1.5/2/2.5/3	8	8	12	4	1 / 1.5 / 2 / 2.5 / 3 / 4 / 5	
PTI-TS10-1/1.5/2/2.5/3/4/5	10	10	15	5		
PTI-TS12-1/1.5/2/2.5/3/4/5	12	12		6		
PTI-TS14-1/1.5/2/2.5/3/4/5	14	14	75	7	1 / 1.5 / 2 / 2.5 / 3 / 4 / 5	
PTI-TS16-1/1.5/2/2.5/3/4/5	16	16		8		

DOVETAIL CUTTER



HRC32-48



55HRC TiSin Coating

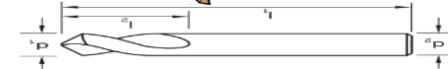
: mm metric

Description	D	NECK DIA	OAL	ANGLE
PTI-DVC3-ANGLE	3	1.5	50	60°/90°/120°
PTI-DVC4-ANGLE	4	2		
PTI-DVC5-ANGLE	5	3		
PTI-DVC6-ANGLE	6			
PTI-DVC8-ANGLE	8	4	60	
PTI-DVC10-ANGLE	10	5		
PTI-DVC12-ANGLE	12	6		
PTI-DVC14-ANGLE	14	7	75	
PTI-DVC16-ANGLE	16	8		

SPOT DRILL 55HRC TiSin Coating / 90 DEG



HRC32-48

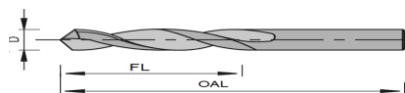


Description	D	d	FL	OAL
PTI-CHM03-90	3	4	1	50
PTI-CHM04-90	4		3	
PTI-CHM04-90-LS				50
PTI-CHM05-90	5	6		4
PTI-CHM05-90-LS			50	
PTI-CHM06-90	6	8	6	60
PTI-CHM06-90-LS				100
PTI-CHM08-90	8	10	8	75
PTI-CHM08-90-LS				100
PTI-CHM10-90	10	12	10	100
PTI-CHM12-90	12			
PTI-CHM16-90	16	16	14	

SOLID CARBIDE JOBBER DRILL



Straigh Shank
TiSin Coating
3xd



55HRC TiSin Coating



None Coolant Thru

: mm metric

D	FL	SH	OAL
φ1	6	φ1	32
φ1.1	6	φ1.1	32
φ1.2	6	φ1.2	32
φ1.3	6	φ1.2	32
φ1.4	8	φ1.4	35
φ1.5	8	φ1.5	35
φ1.6	8	φ1.6	35
φ1.7	8	φ1.7	35
φ1.8	8	φ1.8	35
φ1.9	12	φ1.9	40
φ2	12	φ2	40
φ2.1	12	φ2.1	40
φ2.2	12	φ2.2	40
φ2.3	12	φ2.3	40
φ2.4	17	φ2.4	45
φ2.5	17	φ2.5	45
φ2.6	17	φ2.6	45
φ2.7	17	φ2.7	45
φ2.8	17	φ2.8	45
φ2.9	17	φ2.9	50
φ3	17	φ3	62
φ3.1	17	φ3.1	62
φ3.2	17	φ3.2	62
φ3.3	17	φ3.3	62
φ3.4	17	φ3.4	62
φ3.5	17	φ3.5	62
φ3.6	17	φ3.6	62
φ3.7	17	φ3.7	62
φ3.8	21	φ3.8	66
φ3.9	21	φ3.9	66
φ4	21	φ4	66
φ4.1	21	φ4.1	66
φ4.2	21	φ4.2	66
φ4.3	21	φ4.3	66
φ4.4	21	φ4.4	66
φ4.5	21	φ4.5	66
φ4.6	21	φ4.6	66
φ4.7	21	φ4.7	66
φ4.8	24	φ4.8	66
φ4.9	24	φ4.9	66
φ5	24	φ5	66

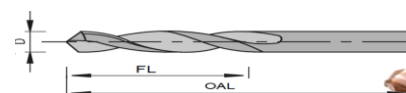
D	FL	SH	OAL
φ5.1	24	φ5.1	66
φ5.2	24	φ5.2	66
φ5.25	24	φ5.25	66
φ5.3	24	φ5.3	66
φ5.4	24	φ5.4	66
φ5.5	24	φ5.5	66
φ5.6	24	φ5.6	66
φ5.7	24	φ5.7	66
φ5.8	24	φ5.8	66
φ5.9	24	φ5.9	66
φ6	24	φ6	66
φ6.1	28	φ6.1	79
φ6.2	28	φ6.2	79
φ6.25	28	φ6.25	79
φ6.3	28	φ6.3	79
φ6.4	28	φ6.4	79
φ6.5	28	φ6.5	79
φ6.6	28	φ6.6	79
φ6.7	28	φ6.7	79
φ6.8	28	φ6.8	79
φ6.9	28	φ6.9	79
φ7	28	φ7	79
φ7.1	34	φ7.1	79
φ7.2	34	φ7.2	79
φ7.25	34	φ7.25	79
φ7.3	34	φ7.3	79
φ7.4	34	φ7.4	79
φ7.5	34	φ7.5	79
φ7.6	34	φ7.6	79
φ7.7	34	φ7.7	79
φ7.8	34	φ7.8	79
φ7.9	34	φ7.9	79
φ8	34	φ8	79
φ8.1	40	φ8.1	89
φ8.2	40	φ8.2	89
φ8.3	40	φ8.3	89
φ8.4	40	φ8.4	89
φ8.5	40	φ8.5	89
φ8.6	40	φ8.6	89
φ8.7	40	φ8.7	89
φ8.8	40	φ8.8	89

D	FL	SH	OAL
φ8.9	40	φ8.9	89
φ9	40	φ9	89
φ9.1	40	φ9.1	89
φ9.2	40	φ9.2	89
φ9.3	40	φ9.3	89
φ9.4	40	φ9.4	89
φ9.5	40	φ9.5	89
φ9.6	40	φ9.6	89
φ9.7	40	φ9.7	89
φ9.8	40	φ9.8	89
φ9.9	40	φ9.9	89
φ10	40	φ10	89
φ10.1	45	φ10.1	102
φ10.2	45	φ10.2	102
φ10.3	45	φ10.3	102
φ10.4	45	φ10.4	102
φ10.5	45	φ10.5	102
φ10.6	45	φ10.6	102
φ10.7	45	φ10.7	102
φ10.8	45	φ10.8	102
φ10.9	45	φ10.9	102
φ11	45	φ11	102
φ11.1	45	φ11.1	102
φ11.2	45	φ11.2	102
φ11.3	45	φ11.3	102
φ11.4	45	φ11.4	102
φ11.5	45	φ11.5	102
φ11.6	45	φ11.6	102
φ11.7	45	φ11.7	102
φ11.8	45	φ11.8	102
φ11.9	45	φ11.9	102
φ12	45	φ12	102
φ12.5	45	φ12.5	107
φ12.8	45	φ12.8	107
φ13	45	φ13	107
φ13.5	45	φ13.5	107
φ13.8	45	φ13.8	107
φ14	45	φ14	107

SOLID CARBIDE JOBBER DRILL



Straigh Shank
TiSin Coating
5xd



55HRC TiSin Coating



None Coolant Thru

: mm metric

D	FL	SH	OAL
φ1	10	φ1	32
φ1.1	10	φ1.1	32
φ1.2	10	φ1.2	32
φ1.3	10	φ1.2	32
φ1.4	13	φ1.4	35
φ1.5	13	φ1.5	35
φ1.6	13	φ1.6	35
φ1.7	13	φ1.7	35
φ1.8	13	φ1.8	35
φ1.9	18	φ1.9	40
φ2	18	φ2	40
φ2.1	18	φ2.1	40
φ2.2	18	φ2.2	40
φ2.3	18	φ2.3	40
φ2.4	22	φ2.4	45
φ2.5	22	φ2.5	45
φ2.6	22	φ2.6	45
φ2.7	22	φ2.7	45
φ2.8	22	φ2.8	45
φ2.9	22	φ2.9	50
φ3	23	φ3	66
φ3.1	23	φ3.1	66
φ3.2	23	φ3.2	66
φ3.3	23	φ3.3	66
φ3.4	23	φ3.4	66
φ3.5	23	φ3.5	66
φ3.6	23	φ3.6	66
φ3.7	23	φ3.7	66
φ3.8	29	φ3.8	74
φ3.9	29	φ3.9	74
φ4	29	φ4	74
φ4.1	29	φ4.1	74
φ4.2	29	φ4.2	74
φ4.3	29	φ4.3	74
φ4.4	29	φ4.4	74
φ4.5	29	φ4.5	74
φ4.6	29	φ4.6	74
φ4.7	29	φ4.7	74
φ4.8	29	φ4.8	74
φ4.9	35	φ4.9	82
φ5	35	φ5	82

D	FL	SH	OAL
φ5.1	35	φ5.1	82
φ5.2	35	φ5.2	82
φ5.25	35	φ5.25	82
φ5.3	35	φ5.3	82
φ5.4	35	φ5.4	82
φ5.5	35	φ5.5	82
φ5.6	35	φ5.6	82
φ5.7	35	φ5.7	82
φ5.8	35	φ5.8	82
φ5.9	35	φ5.9	82
φ6	35	φ6	82
φ6.1	43	φ6.1	91
φ6.2	43	φ6.2	91
φ6.25	43	φ6.25	91
φ6.3	43	φ6.3	91
φ6.4	43	φ6.4	91
φ6.5	43	φ6.5	91
φ6.6	43	φ6.6	91
φ6.7	43	φ6.7	91
φ6.8	43	φ6.8	91
φ6.9	43	φ6.9	91
φ7	43	φ7	91
φ7.1	43	φ7.1	91
φ7.2	43	φ7.2	91
φ7.25	43	φ7.25	91
φ7.3	43	φ7.3	91
φ7.4	43	φ7.4	91
φ7.5	43	φ7.5	91
φ7.6	43	φ7.6	91
φ7.7	43	φ7.7	91
φ7.8	43	φ7.8	91
φ7.9	43	φ7.9	91
φ8	43	φ8	91
φ8.1	49	φ8.1	103
φ8.2	49	φ8.2	103
φ8.3	49	φ8.3	103
φ8.4	49	φ8.4	103
φ8.5	49	φ8.5	103
φ8.6	49	φ8.6	103
φ8.7	49	φ8.7	103
φ8.8	49	φ8.8	103

D	FL	SH	OAL
φ8.9	49	φ8.9	103
φ9	49	φ9	103
φ9.1	49	φ9.1	103
φ9.2	49	φ9.2	103
φ9.3	49	φ9.3	103
φ9.4	49	φ9.4	103
φ9.5	49	φ9.5	103
φ9.6	49	φ9.6	103
φ9.7	49	φ9.7	103
φ9.8	49	φ9.8	103
φ9.9	49	φ9.9	103
φ10	49	φ10	103
φ10.1	56	φ10.1	118
φ10.2	56	φ10.2	118
φ10.3	56	φ10.3	118
φ10.4	56	φ10.4	118
φ10.5	56	φ10.5	118
φ10.6	56	φ10.6	118
φ10.7	56	φ10.7	118
φ10.8	56	φ10.8	118
φ10.9	56	φ10.9	118
φ11	56	φ11	118
φ11.1	56	φ11.1	118
φ11.2	56	φ11.2	118
φ11.3	56	φ11.3	118
φ11.4	56	φ11.4	118
φ11.5	56	φ11.5	118
φ11.6	56	φ11.6	118
φ11.7	56	φ11.7	118
φ11.8	56	φ11.8	118
φ11.9	56	φ11.9	118
φ12	56	φ12	118
φ12.5	60	φ12.5	124
φ12.8	60	φ12.8	124
φ13	60	φ13	124
φ13.5	60	φ13.5	124
φ13.8	60	φ13.8	124
φ14	60	φ14	124

d (刃径)	Tolerance (公差)
φ < 3	0~-0.02
3 ≤ φ ≤ 10	0~-0.03
φ > 10	0~-0.04



d (刃径)	Tolerance (公差)
φ < 3	0~-0.02
3 ≤ φ ≤ 10	0~-0.03
φ > 10	0~-0.04



HANDTAP 3PCS SET



STANDARD LENGTH
HSS /DIN STND



METRIC
PTI-M1.0*0.25 HT
PTI-M1.2*0.25 HT
PTI-M1.4*0.30 HT
PTI-M1.6*0.35 HT
PTI-M2.0*0.40 HT
PTI-M2.5*0.45 HT
PTI-M3.0*0.50 HT
PTI-M3.5*0.60 HT
PTI-M4.0*0.70 HT
PTI-M5.0*0.80 HT
PTI-M6.0*1.00 HT
PTI-M8.0*1.25 HT
PTI-M10*1.50 HT
PTI-M12*1.75 HT
PTI-M14*2.00 HT
PTI-M16*2.00 HT
PTI-M18*2.5 HT
PTI-M20*2.5 HT

UNC
PTI-UNC No. 4x40 HT
PTI-UNC No. 5x40 HT
PTI-UNC No. 6x32 HT
PTI-UNC No. 8x32 HT
PTI-UNC No. 10x24 HT
PTI-UNC No. 12x24 HT
PTI-UNC 1/8x40 HT
PTI-UNC 5/32x32 HT
PTI-UNC 3/16x24 HT
PTI-UNC 1/4x20 HT
PTI-UNC 5/16x18 HT
PTI-UNC 3/8x16 HT
PTI-UNC 7/16x14 HT
PTI-UNC 1/2x13 HT
PTI-UNC 9/16x12 HT
PTI-UNC 5/8x11 HT
PTI-UNC 3/4x10 HT
PTI-UNC 7/8x9 HT
PTI-UNC 1"x8 HT

UNF
PTI-UNF No. 4x48 HT
PTI-UNF No. 5x44 HT
PTI-UNF No. 6x40 HT
PTI-UNF No. 8x36 HT
PTI-UNF No. 10x32 HT
PTI-UNF No. 12x28 HT
PTI-UNF 1/8x44 HT
PTI-UNF 5/32x36 HT
PTI-UNF 3/16x32 HT
PTI-UNF 1/4x28 HT
PTI-UNF 5/16x24 HT
PTI-UNF 3/8x24 HT
PTI-UNF 7/16x20 HT
PTI-UNF 1/2x20 HT
PTI-UNF 9/16x18 HT
PTI-UNF 5/8x18 HT
PTI-UNF 3/4x16 HT
PTI-UNF 7/8x14 HT
PTI-UNF 1"x12 HT

NPT
NPT 1/16x27
NPT 1/8x27
NPT 1/4x18
NPT 3/8x18
NPT 1/2x14
NPT 3/4x14
NPT 1"x11.5
NPT 1.1/4x11.5
NPT 1.1/2x11.5
NPT 2"x11.5

BSPT
Rc (BSPT) 1/16x28
Rc (BSPT) 1/8x28
Rc (BSPT) 1/4x19
Rc (BSPT) 3/8x19
Rc (BSPT) 1/2x14
Rc (BSPT) 3/4x14
Rc (BSPT) 1"x11
Rc (BSPT) 1.1/4x11
Rc (BSPT) 1.1/2x11
Rc (BSPT) 2"x11

BSW
BSW 1/8x40
BSW 5/32x32
BSW 3/16x24
BSW 1/4x20
BSW 5/16x18
BSW 3/8x16
BSW 7/16x14
BSW 1/2x13
BSW 9/16x12
BSW 5/8x11
BSW 3/4x10
BSW 7/8x9
BSW 1"x8
BSW 1.1/4x7



MACHINE TAP SPIRAL FLUTE



STANDARD LENGTH
HSS /JIS STND
Sp/FI
: mm metric



Description	OAL	FL	Sh L	Sh D
PTI-M1.0*0.25 SP	32	6.5	3	2.5
PTI-M1.2*0.25 SP				
PTI-M1.4*0.30 SP	37	9.5		
PTI-M1.6*0.35 SP		10		
PTI-M2.0*0.40 SP	45	9	4	3.2
PTI-M2.5*0.45 SP				
PTI-M3.0*0.50 SP	50	12	5	4
PTI-M3.5*0.60 SP		13		
PTI-M4.0*0.70 SP	57	14	5	4
PTI-M5.0*0.80 SP	66	16	5.5	4.5
PTI-M6.0*1.00 SP		19	6	
PTI-M8.0*1.25 SP	70	22	6.2	5
PTI-M10*1.50 SP	75	24	7	5.5
PTI-M12*1.75 SP	82	29	8.5	6.5
PTI-M14*2.00 SP	88	20	10.5	8
PTI-M16*2.00 SP	95		12.5	10

MACHINE TAP SPIRAL FLUTE



STANDARD LENGTH
HSS /JIS STND
PO/FI
: mm metric



Description	OAL	FL	Sh L	Sh D
PTI-M1.0*0.25 PO	32	6.5	3	2.5
PTI-M1.2*0.25 PO				
PTI-M1.4*0.30 PO	37	9.5		
PTI-M1.6*0.35 PO		10		
PTI-M2.0*0.40 PO	45	9	4	3.2
PTI-M2.5*0.45 PO				
PTI-M3.0*0.50 PO	50	12	5	4
PTI-M3.5*0.60 PO		13		
PTI-M4.0*0.70 PO	57	14	5	4
PTI-M5.0*0.80 PO	66	16	5.5	4.5
PTI-M6.0*1.00 PO		19	6	
PTI-M8.0*1.25 PO	70	22	6.2	5
PTI-M10*1.50 PO	75	24	7	5.5
PTI-M12*1.75 PO	82	29	8.5	6.5
PTI-M14*2.00 PO	88	20	10.5	8
PTI-M16*2.00 PO	95		12.5	10

MACHINE TAP SPIRAL FLUTE



STANDARD LENGTH

HSS /JIS STND

Tialn Coating

Sp/Fl

: mm metric



Description	OAL	FL	Sh L	Sh D		
PTI-M1.0*0.25 SP/Ti	32	6.5	3	2.5		
PTI-M1.2*0.25 SP/Ti		9.5				
PTI-M1.4*0.30 SP/Ti	37	10				
PTI-M1.6*0.35 SP/Ti		9				
PTI-M2.0*0.40 SP/Ti	45	12			4	3.2
PTI-M2.5*0.45 SP/Ti		13				
PTI-M3.0*0.50 SP/Ti	50	14	5	4		
PTI-M3.5*0.60 SP/Ti		16				
PTI-M4.0*0.70 SP/Ti	57	19	6	4.5		
PTI-M5.0*0.80 SP/Ti		22				
PTI-M6.0*1.00 SP/Ti	66	24	7	5.5		
PTI-M8.0*1.25 SP/Ti		29				
PTI-M10*1.50 SP/Ti	75	10.5	10.5	8		
PTI-M12*1.75 SP/Ti		12.5				
PTI-M14*2.00 SP/Ti	88	20	12.5	10		
PTI-M16*2.00 SP/Ti		20				

MACHINE TAP SPIRAL FLUTE



STANDARD LENGTH

HSS /JIS STND

BLACK OXIDE

Sp/Fl

: mm metric

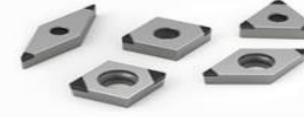


Description	OAL	FL	Sh L	Sh D		
PTI-M1.0*0.25 SP/BO	32	6.5	3	2.5		
PTI-M1.2*0.25 SP/BO		9.5				
PTI-M1.4*0.30 SP/BO	37	10				
PTI-M1.6*0.35 SP/BO		9				
PTI-M2.0*0.40 SP/BO	45	12			4	3.2
PTI-M2.5*0.45 SP/BO		13				
PTI-M3.0*0.50 SP/BO	50	14	5	4		
PTI-M3.5*0.60 SP/BO		16				
PTI-M4.0*0.70 SP/BO	57	19	6	4.5		
PTI-M5.0*0.80 SP/BO		22				
PTI-M6.0*1.00 SP/BO	66	24	7	5.5		
PTI-M8.0*1.25 SP/BO		29				
PTI-M10*1.50 SP/BO	75	10.5	10.5	8		
PTI-M12*1.75 SP/BO		12.5				
PTI-M14*2.00 SP/BO	88	20	12.5	10		
PTI-M16*2.00 SP/BO		20				

STANDARD AND CUSTOMIZED PCD,PCBN And CARBIDE FORMING TOOL



PCD CBN End Mill



PCD Insert



PCBN Insert



PCD Micro Drill



PCD Reamer



Boring bar

CUSTOMIZED SOLID CARBIDE FORMING TOOLS



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