



# NC Deburring

Achieve high speed and high feed deburring and chamfering on CNC machine.

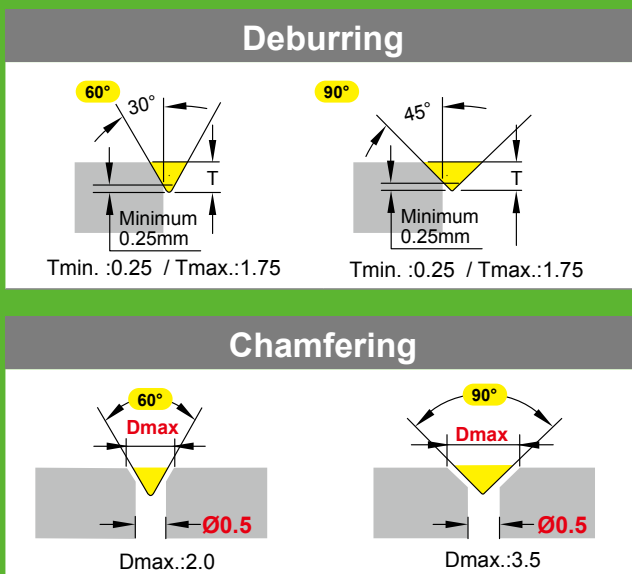
Retain exceptional positional accuracy of the deburring depth and diameter.

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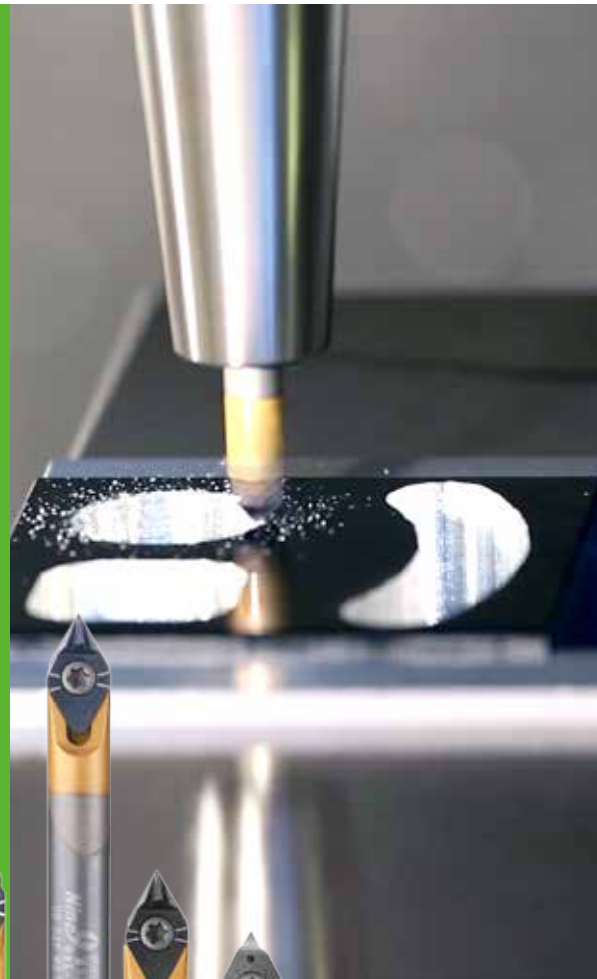
## Features

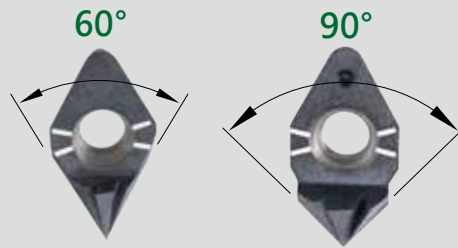
NC Deburring

- Indexable type, high precision ground carbide insert.
- Ideal for fine hole deburring.
- Using same tool holder of X060 engraving tool.



*Insert has 6 flutes, capable of running 6 times higher feed rate.*

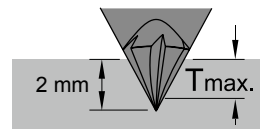




### ► Inserts >>

- Each insert with 6 flutes, single edge.
- TiAlN coated carbide insert can stand very long life.

**NC2032:** • For all kinds of steel from < 40 HRC, carbon steel, alloy steel, cast iron, aluminum and non-ferrous metal..

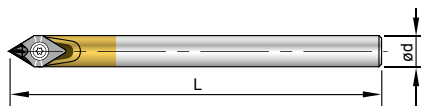


Code	Parts No.	Angle	Coating	Grade	Dimensions	Tmax.	AP	
							L	S
01X601	X060A60T6-NC2032	60°	TiAlN	K20F		1.75	0.1	1.0
01X901	X060A90T6-NC2032	90°						



### ► Holder >>

- Using same tool holder of X060 engraving tool.



Code	Parts No.	Shank	Ød	L	Screw	Key
69X001	00-99619-X060-06	Steel	6	40	*NS-22044 0.9Nm	NK-T7
69X002	00-99619-X060-06L	Carbide		60		
69X003	00-99619-X060-06LS	Steel				

\*Torque screwdriver is recommended, see page 6-4.

### ► Starter Kit >>

Code	Parts No.	Carbide Shank Ø	Angle	Insert included	Content
69X202-X601	00-99619-X060-DB60-02K-32	6 (99619-X060-06L)	60°	X060A60T6-NC2032	1 x Holder 1 x T7 Key 2 x inserts
69X202-X901	00-99619-X060-DB90-02K-32		90°	X060A90T6-NC2032	

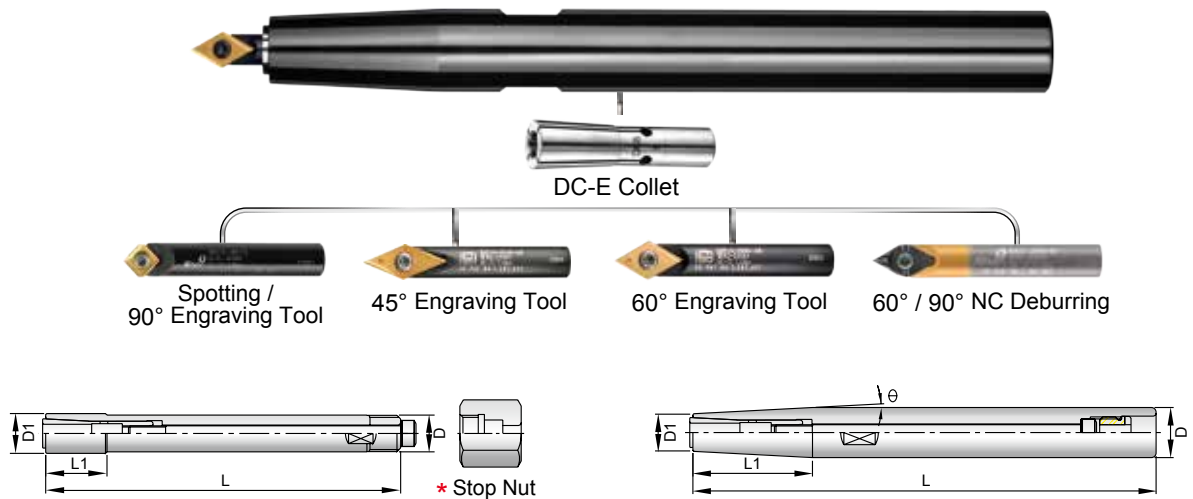


### ► Cutting Data >>

Work Material	S (r.p.m.)	Feed Rate (mm / tooth)	Grade of Insert
<b>Carbon Steel C&lt;0.3%</b>	8000~40000	0.005-0.05	NC2032
<b>Alloy steel</b>	6000~35000	0.005-0.04	
<b>Stainless Steel</b>	6000~25000	0.005-0.03	
<b>Casting iron</b>	6000~35000	0.005-0.03	
<b>Aluminum, Non-Ferrous Metal</b>	8000~40000	0.005-0.05	

# DC Slim Chuck

## ► Extension Adaptor >>

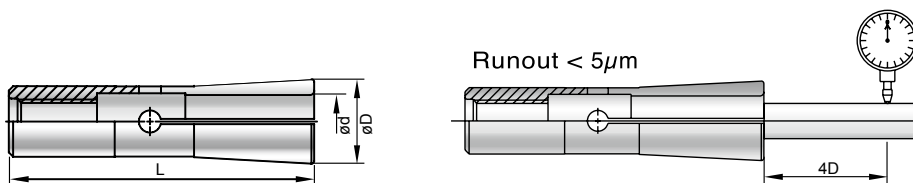


Parts No.	Type of Holder	d	L	L1	øD	D1	θ	Collet	Back Screw	Stop Screw	Hexagon Key	Stop Nut	
0-329090-102	ST10-DC4-90	2~4	90	14	10	9	--	DC4	M4 * L60	--	0-301940~632	TP-M8	
-112	ST12-DC4-120	2~4	120	38	12	9	3°		M4 * L85	OP-M8			--
0-329090-212	ST12-DC6-120	2~6	120	40	12	14	--	DC6	M5 * L95	--	0-301940~642	TP-M12	
-222	ST16-DC6-150	2~6	150	38	16	14	3°		M5 * L100	OP-M10			--
-232	ST20-DC6-200	2~6	200	70	20	14	3°		M5 * L100	OP-M10			--
-242	ST25-DC6-250	2~6	250	115	25	14	3°		M5 * L100	OP-M10			0-301940~643
0-329090-322	ST20-DC8-200	3~8	200	28	20	19	2°	DC8	M6 * L120	OP-M12	0-301940~652	--	
0-329090-432	ST25-DC10-250	4~10	250	28	25	24	2°	DC10	M8 * L150	OP-M16	0-301940~662	--	

\* Stop nut is applied when clamping and unclamping tools.

## ► DC-E Collet >>

- The design of DC-E collets is emphasized on increasing the clamping force of end mills.



Type	DC-4E		DC-6E		DC-8E		DC-10E	
D	7		9.6		15		19.1	
L	31		36		45		52	
DC4-E		DC6-E		DC8-E		DC10-E		
Parts No.	Size(mm)	Parts No.	Size(mm)	Parts No.	Size(mm)	Parts No.	Size(mm)	
0-300090-102	2.0	0-300090-203	3.0	0-300090-303	3.0	-	-	
0-300090-103	3.0	0-300090-204	4.0	0-300090-304	4.0	0-300090-404	4.0	
0-300090-104	4.0	0-300090-206	6.0	0-300090-306	6.0	0-300090-406	6.0	
				0-300090-308	8.0	0-300090-408	8.0	
						0-300090-410	10.0	

# Torque Screwdriver

It prevents damages of the screws and tool



## ► Why Torque Control is important? >>

- Increase tool life of insert screw.
- Optimize performance of milling cutters after locking with identical torque on all inserts.
- Avoid damage of screw, resulted couldn't take insert out from the cutter.
- Deliver right tightening force to precise parts, no more over-tightening.
- Enhance the function of both tightened parts and connected parts.

## ► 0.6~5.5Nm torque screwdriver with 25mm+50mm TORX® high precision bit.

Parts No.	Contents						N.W.	Packaging Illustration
	Handle	Adapter			Bit			
		Nm	Kgcm	In-lb	Size	25mm+50mm		
0-TPK01-TX06-0.6-S	TPK-H02	0.6	6.1	5.3	TX6		122g	
0-TPK01-TX07-0.9-S		0.9	9.2	8.0	TX7	2 pcs + 2 pcs		
0-TPK01-TX08-1.2-S		1.2	12.0	10.6	TX8			
0-TPK01-TX08-2.0	TPK-H01	2.0	20.4	17.7	TX8		130g	
0-TPK01-TX09-1.4		1.4	14.0	12.4	TX9			
0-TPK01-TX09-2.0		2.0	20.4	17.7	TX9			
0-TPK01-TX10-2.0		2.0	20.4	17.7	TX10	2 pcs + 2 pcs		
0-TPK01-TX15-3.0		3.0	30.6	26.6	TX15			
0-TPK01-TX20-5.0	TPK-H03	5.0	51.0	44.3	TX20		200g	
0-TPK01-TX20-5.5		5.5	56.1	48.7	TX20			
0-TPK01-TX2025-5.5						Bit 50mm		
					TX20	2 pcs		
					TX25	2 pcs		

Note: other size are available, please feel free to contact us.

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Accessory