



NC Deburring >>>

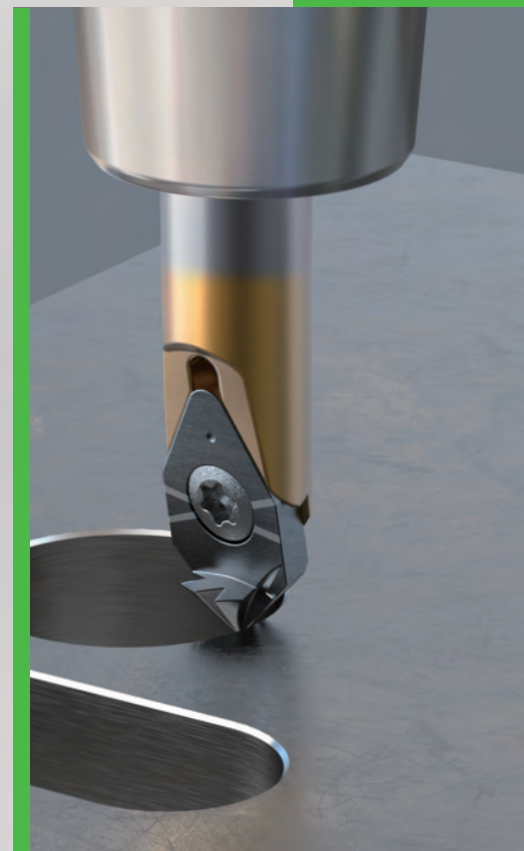
60° & 90°

Ideal for fine hole deburring.

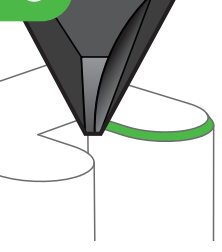
P M K N

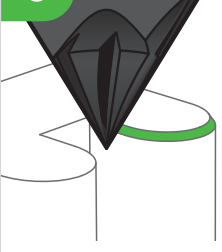
► Indexable Type, High Precision Ground Carbide Insert.

- Achieve high speed and high feed deburring and chamfering on CNC machine.
- Retain exceptional positional accuracy of the deburring depth and diameter.



Features >

X060A..T3		
3 Flutes insert	2 cutting edges	
	60°	90°
 • Good for interior angles < 90°. • The chip removing space is bigger.	 30° Tmax. 0.9mm Minimum 0.1mm	 45° Tmax. 0.9mm Minimum 0.1mm
	0.5	

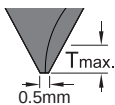
X060A..T6		
6 Flutes insert	single cutting edge	
	60°	90°
 • Good for simple contours. • Fast deburring, Time saving!	 30° Tmax. 1.8mm Minimum 0.1mm	 45° Tmax. 1.5mm Minimum 0.5mm
	0.5	

NC Deburring 60°& 90°



► Inserts >>

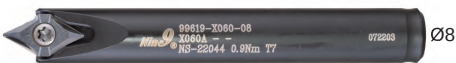
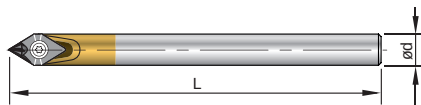
- NC2032:** • For all kinds of steel < HRC 40, carbon steel, alloy steel, cast iron, aluminum and non-ferrous metal.
- XP9001:** • For non-ferrous metal, aluminum, brass, copper, plastic and acrylic.



Angle	Code	Part No.	Coating	Grade	Flutes		Dimensions		Tmin.	Tmax.
							L	S		
60°	01X611	X060A60T3-NC2032	TiAlN	K20F	3		6	2.8	0.1	0.9
	01X612	X060A60T3-XP9001	Uncoated							
90°	01X911	X060A90T3-NC2032	TiAlN	K20F	3		6	2.8	0.1	0.9
	01X912	X060A90T3-XP9001	Uncoated							
60°	01X601	X060A60T6-NC2032	TiAlN	K20F	6		6	2.0	0.1	1.8
90°	01X901	X060A90T6-NC2032							0.5	1.5

► Holder >>

- Using same tool holder of X060 engraving tool.
- XL (100mm length) is only for Al, Al-alloy cutting, unbalanced <0.6gm.



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	6	60		
69X003	00-99619-X060-06LS	Steel	6	100		
69X004	00-99619-X060-06XL	Carbide	6	100		
69X005	00-99619-X060-08	Steel	8	60		

*Torque screwdriver is recommended.

► Starter Kit >> • Different content can be customized.

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



► Cutting Data >>

Workpiece Material		S (r.p.m.)	Feed Rate (mm / tooth)	Grade of Insert
P	Carbon steel	8000~40000	0.005-0.05	NC2032
	Alloy steel	6000~35000	0.005-0.04	
M	Stainless steel	6000~25000	0.005-0.03	
K	Cast Iron	6000~35000	0.005-0.03	
N	Non-ferrous metal	8000~40000	0.005-0.05	XP9001