



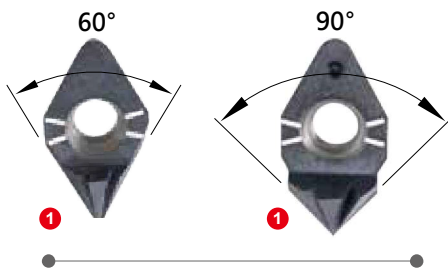
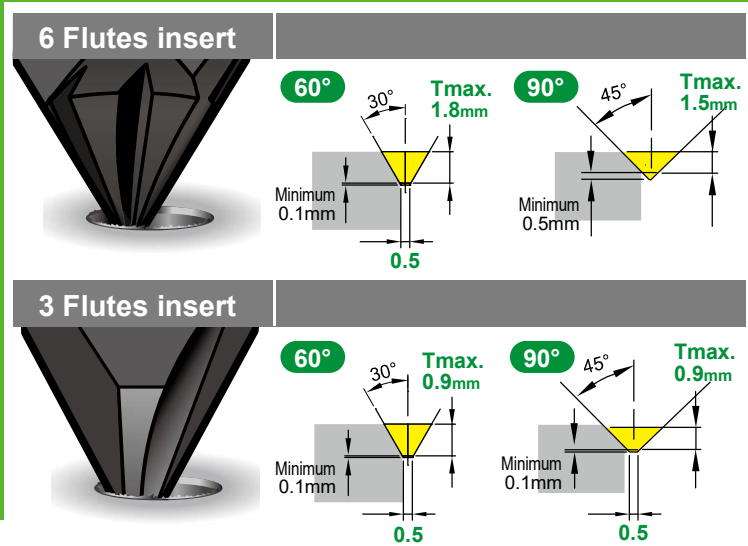
NC Deburring 60° & 90°

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

Retain exceptional positional accuracy of the deburring depth and diameter.

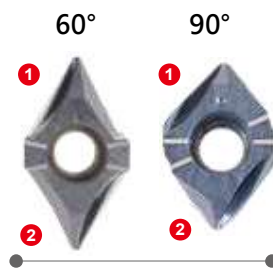
Features

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



X060A..T6

6 flutes, 1 cutting edge



X060A..T3

3 flutes, 2 cutting edges
Economical



NC Deburring 60° & 90°

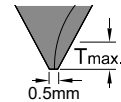


NC Deburring

► Inserts >>

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

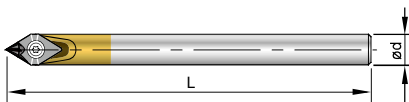
XP9001: • For non-ferrous metal, aluminum, brass, copper, plastic and acrylic



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



Code	Part 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	60		
NEW 69X004	00-99619-X060-06XL	Carbide	6	100		
NEW 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 C<0.3%	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 Casting iron	6000~35000	0.005-0.03	
N Aluminum, Non-Ferrous Metal	8000~40000	0.005-0.05	XP9001