

Micro Spot Drill >>>

90°/120°/142°

0.1 & 0.2mm

It produces a consistent surface for micro drill successfully to enter the workpiece.





- · Micro spot drill geometries are designed to optimize rigidity and accuracy with a point angle to guide micro drill towards the hole's center line.
- · Carbide insert can stand very long tool life.
- It produces a consistent surface for micro drill to enter the workpiece especially for round, angled or curved surfaces.





0.1 and 0.2mm

Micro Spot Drill 90°, 120° & 142°







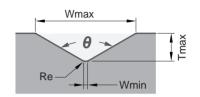
▶Inserts >>

NC2032: • For all kinds of steel from < HRC 40, carbon steel, alloy steel, and cast iron.

NC2035: • ALDURA coating, reduces heat and tool wear.

• For steel with heat treatment up to HRC 50.

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



Angle	Code	Parts No.		Coating	Grade		Dimensions		ns	Marin	Wmax.	Tmov
±0.5		Farts NC).				L	S	Re	winin.	willax.	Imax.
90°	01X0082	X060A90W010R	NC2032	TiAIN	K20F	Re	6	2.05	0.02	0.1	1.1	0.5
	01X0221		NC2035	ALDURA								
	01X0220		XP9001	Uncoated								
90°	01X0207	7,000,100,1702011	NC2032	TiAIN	K20F				0.04	0.2	2.2	1.0
	01X0208		NC2035	ALDURA								
	01X0209		XP9001	Uncoated								
120°	01X0222		TiAIN	K20F				0.02	0.1	2.53	0.7	
142°	01X0223	X060A142W010R	NC2032	TiAIN	K20F				0.02	0.1	2.42	0.4

^{*} X060A90W020R is also good for engraving.

▶ Holder >>

- One holder supports the entire X060 series of carbide inserts.
- XL (100mm length) is only for AI, AI-alloy cutting, unbalanced <0.6gm.





Code	Parts No.	Shank	Ød	L	Screw	Key	
69X001	00-99619-X060-06	Steel	6	40		NK-T7	
69X002	00-99619-X060-06L	Carbide	6	60	*NS-22044 - 0.9Nm		
69X003	00-99619-X060-06LS	Steel	6	60			
69X004	00-99619-X060-06XL	Carbide	6	100			
69X005	00-99619-X060-08	Steel	8	60			

^{*}Torque screwdriver is recommended.

▶ Cutting Data >>

	S (r.p.m)				
Workpiece Material		X060A90W010R	X060A90W020R	X060A120W010R X060A142W010R	Grade of Insert
Carbon steel	8000 ~	0.002 ~ 0.012	0.002 ~ 0.015	0.002 ~ 0.015	NC2032
Alloy steel		0.002 ~ 0.010	0.002 ~ 0.010	0.002 ~ 0.010	NC2032, NC2035
M Stainless steel		0.002 ~ 0.008	0.002 ~ 0.010	0.002 ~ 0.010	NC2032
K Cast Iron	40000	0.002 ~ 0.010	0.002 ~ 0.010	0.002 ~ 0.010	NC2032
Non-ferrous metal		0.002 ~ 0.015	0.002 ~ 0.020	-	XP9001
H Hardened steel < HRC50		0.002 ~ 0.006	0.002 ~ 0.006	-	NC2035