

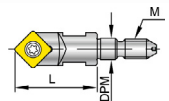
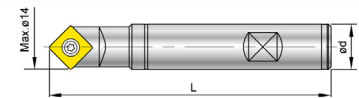

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TOOL HOLDERS NC SPOT DRILL

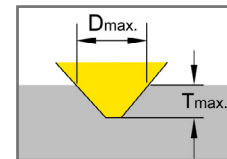
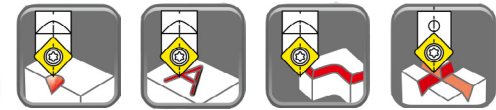
Code	Holder Parts No.	Angle	Ød	L	M	DPM	Dmax.	Tmax.	Screw/Key	PRICE
109-604002	00-99616-14-12	90°	12	100	-	-	-	-	NS-35080 2.5 Nm NK-T15	\$117.61
109-604004	00-99616-14		16	100	-	-	-	-		\$117.61
109-604007	00-99616-14-150L		16	150	-	-	-	-		\$213.55
109-604009	00-99616-14-220L		20	220	-	-	-	-		\$340.45
109-614001	00-99616-14-1/2		1/2"	100	-	-	-	-		\$117.61
109-614002	00-99616-14-5/8		5/8"	100	-	-	-	-		\$117.61
109-624001	00-99616-14-M8	100°	-	30	M8xP1.25	8.5	-	-		\$216.65
109-604011	00-99616-20-100		20	100	-	-	16	6.3		\$143.92
109-604013	00-99616-20-120	120°	20	100	-	-	17	4.76		\$143.92
109-614003	00-99616-3/4-120		3/4"	100	-	-	0.669"	0.187"		\$143.92
109-604014	00-99616-20-142	142°	20	100	-	-	18.5	3.16		\$143.92
109-614004	00-99616-3/4-142		3/4"	100	-	-	0.728"	0.124"		\$143.92



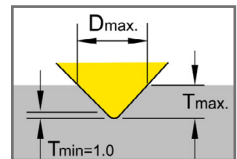
N9MT11T3 90° 100° 120° 142°

SPOT DRILLING CHAMFERING ENGRAVING

- NC40:
- Wiper design, universal grade for all unhardened steel.
 - Each insert has 4 cutting edges.
- NC10:
- High positive angle and fully ground cutting edge and relief angle.
 - Universal grade for non-ferrous metal, cast iron and stainless steel.
 - Each insert has 4 cutting edges.
- NC60:
- Wiper design cermet insert, for hardened steel up to 56 HRC.
 - Each insert has 4 cutting edges.
- H-NC5071:
- For carbon steel C>0.3%, high alloy steel C>0.3% and cast iron.
 - Each insert has 2 cutting edges.
- H-NC40:
- For carbon steel C<0.3%, low alloy steel C<0.3%, stainless steel, non-ferrous and titanium.
 - Each insert has 2 cutting edges.
- H-NC9076:
- High positive geometry and sharp edge.
 - For non-ferrous material such as aluminum, titanium, brass, copper and long cutting chip metal.
 - Produces excellent surface finish on non-ferrous metal.
 - Each insert has 2 cutting edges.



Other Grade

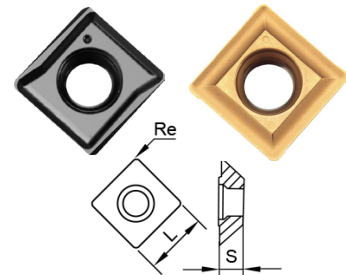


NC40 / Wiper design / NC60

Code	Insert Parts No.	Coating	Grade	Dimensions			Dmax.	Tmax.	PRICE
109-014401	N9MT11T3CT	NC40	TiN	P35	11.11	3.97	14	7	\$42.59
109-014402		NC10	TiAlN	K10F					\$42.59
109-014403		NC60	CERMET						\$56.24
109-014234	N9MT11T3CT2T	H-NC5071	TiAlN & TiN	K20F					\$45.50
109-014202		H-NC40	TiN	K20F					\$45.50
109-014203		H-NC9076	DLC	K20F					\$53.62

* H type is with supporting edge.

** N9MT11T3CT2TH recommended for 100°, 120° & 142° tools.



KITS

Code	Parts No.	Ød	Total Length	Insert fitted	Dmax.	Tmax.	PRICE
109-604104-4401	00-99616-14-02S	16	100	N9MT11T3CT-NC40	14	7	\$162.49
109-604104-4402	00-99616-14-02SAL			N9MT11T3CT-NC10	14	7	\$162.49
109-614102-4401	00-99616-14-5/8-02S	5/8"	100	N9MT11T3CT-NC40	0.551"	0.276"	\$162.49
109-614102-4402	00-99616-14-5/8-02SAL			N9MT11T3CT-NC10	0.551"	0.276"	\$162.49

Single Set



Code	Parts No.	Ød	Insert Included	Content	PRICE
109-604204-4401	00-99616-14-ME6	16	N9MT11T3CT-NC40	1 tool holder + 6 inserts + 1 key	\$383.78
109-604204-4402	00-99616-14-ME6AL		N9MT11T3CT-NC10		\$383.78
109-614202-4401	00-99616-14-IN6	5/8"	N9MT11T3CT-NC40		\$383.78
109-614202-4402	00-99616-14-IN6AL		N9MT11T3CT-NC10		\$383.78

- Selected package for starter who wants to try NC Spot Drill.
- Included one insert on tool holder and five inserts in the pocket.
- Total 6 inserts are equal to 24 spot drills.

Code	Parts No.	Ød	Insert Included	Content	PRICE
109-604204-4200	00-99616-14-ME5RC	16	N9MT11T3RC10-NC40 N9MT11T3RC15-NC40 N9MT11T3RC20-NC40 N9MT11T3RC25-NC40 N9MT11T3RC30-NC40	1 tool holder + 5 inserts + 1 key	\$425.56

STARTER Kit

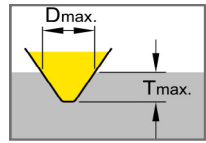


STARTER Kit

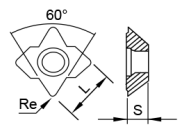
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N9MT11T3P60 60°**ENGRAVING**

- Fully ground spotting insert, for 60 degree spotting and engraving.
- NC40:
 - Universal grade for all unhardened steel and cast iron.
 - Each insert has 2 cutting edges.

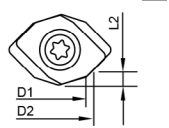
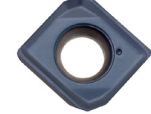
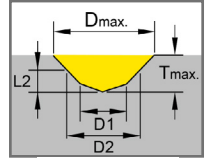
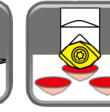
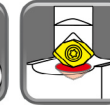


Code	Insert Parts No.	Coating	Grade	Dimensions			Dmax.	Tmax.	PRICE
				L	S	Re			
109-014204	N9MT11T3P60-NC40	TiN	P35	11	3.97	0.8	6.2	4	\$74.74

**WSP Spotting 145° + 90°****SPOT DRILLING
CHAMFERING**

Discover The **NEW GEOMETRY** of Spotting Tool!

- NC2033:
 - Fully ground cutting edge and relief angle.
 - Universal grade for steel, cast iron and hardened steel < 50 HRC.
 - Each insert has 2 cutting edges.



Code	Insert Parts No.	Coating	Grade	Thread Size	*D1±0.05	D2	L2	Dmax.	Tmax.	PRICE
109-014219	N9MT11T3M08C-NC2033	TiAlN	K20F	M8x1.25	6.80	8.40	1.81	13	4.11	\$64.99
109-014220	N9MT11T3M10C-NC2033			M10x1.5	8.50	10.50	2.28		3.53	\$64.99
109-014221	N9MT11T3UNC25-NC2033	TiAlN	K20F	1/4-20 UNC	5.08	6.70	1.55	13	4.70	\$64.99
109-014222	N9MT11T3UNC31-NC2033			5/16-18 UNC	6.53	8.40	1.90		4.20	\$64.99
109-014223	N9MT11T3UNC38-NC2033			3/8-16 UNC	7.94	10.00	2.22		3.72	\$64.99

Note: * D1 refer to the Tap Pre-drilling sizes. D2 : Thread size x 5%. L2 : Depth of D2.

N9MT11T3RC RC**CORNER ROUNDING**

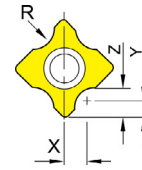
- Combination corner rounding and 45° chamfering application on same insert.
- Each insert has 2 cutting edges.

NC40:

- Universal grade for all unhardened steel and cast iron.
- Inserts are CNC ground for precision radius location.

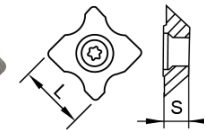
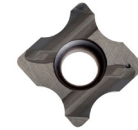
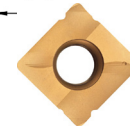
NC9036:

- For non-ferrous material such as aluminum, acrylic, titanium, brass, copper and stainless steel.
- High positive geometry and sharp edge produces excellent surface finish.



RC1.0 ~ RC3.0

All are interchangeable on same holder



Insert Radius	Code	Insert Parts No.		Coating	Grade	Offset			Dimensions		PRICE
						X	Y	Z	L	S	
1.0	109-014209	N9MT11T3RC10	NC40	TiN	K20F	2.75	1.5	2.5	11.11	3.97	\$64.99
	109-014224		NC9036	DLC							\$71.82
1.5	109-014210	N9MT11T3RC15	NC40	TiN	K20F	3.25	1.5	3			\$64.99
	109-014225		NC9036	DLC							\$71.82
2.0	109-014211	N9MT11T3RC20	NC40	TiN	K20F	3.75	1.5	3.5			\$64.99
	109-014226		NC9036	DLC							\$71.82
2.5	109-014212	N9MT11T3RC25	NC40	TiN	K20F	4.25	1.5	4			\$64.99
	109-014227		NC9036	DLC							\$71.82
3.0	109-014213	N9MT11T3RC30	NC40	TiN	K20F	4.75	1.4	4.4			\$64.99
	109-014228		NC9036	DLC							\$71.82
1/64	109-014214	N9MT11T3RC1/64	NC40	TiN	K20F	0.086"	0.059"	0.0747"	0.437"	0.156"	\$64.99
	109-014229		NC9036	DLC							\$71.82
1/32	109-014215	N9MT11T3RC1/32	NC40	TiN	K20F	0.101"	0.059"	0.090"			\$64.99
	109-014230		NC9036	DLC							\$71.82
1/16	109-014216	N9MT11T3RC1/16	NC40	TiN	K20F	0.133"	0.059"	0.122"			\$64.99
	109-014231		NC9036	DLC							\$71.82
3/32	109-014217	N9MT11T3RC3/32	NC40	TiN	K20F	0.164"	0.059"	0.153"			\$64.99
	109-014232		NC9036	DLC							\$71.82
1/8	109-014218	N9MT11T3RC 1/8	NC40	TiN	K20F	0.199"	0.055"	0.180"			\$64.99
	109-014233		NC9036	DLC							\$71.82



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