



ACE Spot Drill

Your NEW Spotting Concept!

Distributed By:



Tool+Cutter

www.toolandcutter.com

Excellent Repeatability.

No Need for Re-setting Tool Length by Insert Type.

High Rigidity, High Performance Cutting, Ultra-long Tool Life.

support@toolandcutter.com

1.800.265.6056

Inserts

NEW

NC2057: Universal grade for alloy steel and cast iron. Each insert has 2 cutting edges.

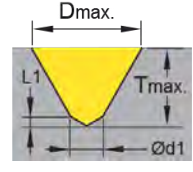
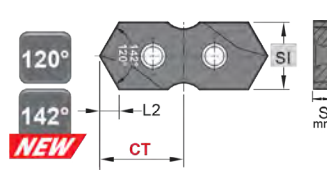
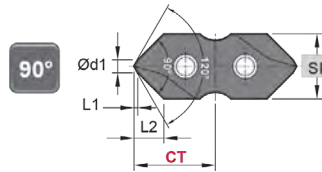
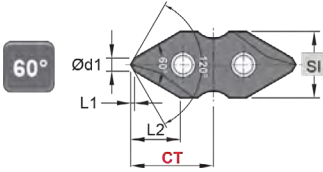
NC5254: For stainless steel. Each insert has 2 cutting edges.

XP9000: High positive geometry and sharp edge produces excellent surface finish. For non-ferrous material such as aluminum, titanium, brass, copper and long cutting chip metal.

Each insert has 2 cutting edges.

Dual Clamping Screwed Design

Ensures the vibration free during the cutting



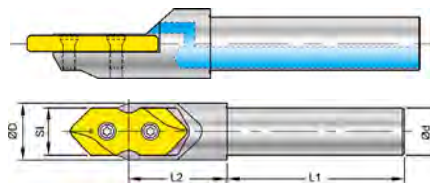
SI	Angle ±0.02°	Code	Parts No.	Coating	Grade	Dimensions			Dmax.	Tmax.	S	CT ±0.025	PRICE
						Ød1	L1	L2					
06 (0.236")	60°	06A021	S9MT06T1-060	NC2057	AlTiN+TiSiN	P35	1.2 (0.047")	0.35 (0.014")	4.5 (0.177")	5.5 (0.217")	1.8 (0.071")	7.5 (0.295")	\$59.31
		06A023		NC5254	Helica					4.1 (0.161")			\$59.31
		06A022		XP9000	Uncoated								\$59.31
	90°	06A031	S9MT06T1-090	NC2057	AlTiN+TiSiN		1.2 (0.047")	0.35 (0.014")	2.75 (0.108")	5.5 (0.217")		7.5 (0.295")	\$59.31
		06A033		NC5254	Helica					2.5 (0.098")			\$59.31
		06A032		XP9000	Uncoated								\$59.31
	120°	06A041	S9MT06T1-120	NC2057	AlTiN+TiSiN		-	-	1.73 (0.068")	5.5 (0.217")		7.0 (0.276")	\$59.31
		06A043		NC5254	Helica					1.6 (0.063")			\$59.31
		06A042		XP9000	Uncoated								\$59.31
	142°	06A051	S9MT06T1-142	NC2057	AlTiN+TiSiN		-	-	1.03 (0.041")	5.5 (0.217")		7.0 (0.276")	\$59.31
		06A053		NC5254	Helica					0.95 (0.037")			\$59.31
		06A052		XP9000	Uncoated								\$59.31
08 (0.315")	60°	06A121	S9MT0802-060	NC2057	AlTiN+TiSiN	P35	1.6 (0.063")	0.46 (0.018")	6.0 (0.236")	7.5 (0.295")	2.4 (0.094")	10 (0.394")	\$72.31
		06A125		NC5254	Helica					5.6 (0.220")			\$72.31
		06A122		XP9000	Uncoated								\$72.31
	90°	06A131	S9MT0802-090	NC2057	AlTiN+TiSiN		1.6 (0.063")	0.46 (0.018")	3.6 (0.142")	7.5 (0.295")		10 (0.394")	\$72.31
		06A135		NC5254	Helica					3.4 (0.134")			\$72.31
		06A132		XP9000	Uncoated								\$72.31
	120°	06A141	S9MT0802-120	NC2057	AlTiN+TiSiN		-	-	2.3 (0.090")	7.5 (0.295")		9 (0.354")	\$72.31
		06A143		NC5254	Helica					2.2 (0.087")			\$72.31
		06A142		XP9000	Uncoated								\$72.31
	142°	06A151	S9MT0802-142	NC2057	AlTiN+TiSiN		-	-	1.38 (0.054")	7.5 (0.295")		9 (0.354")	\$72.31
		06A153		NC5254	Helica					1.29 (0.051")			\$72.31
		06A152		XP9000	Uncoated								\$72.31
10 (0.394")	60°	06A221	S9MT1003-060	NC2057	AlTiN+TiSiN	P35	2 (0.079")	0.58 (0.023")	7.5 (0.295")	9.5 (0.374")	3.0 (0.118")	12.50 (0.492")	\$95.54
		06A223		NC5254	Helica					7.1 (0.280")			\$95.54
		06A222		XP9000	Uncoated								\$95.54
	90°	06A231	S9MT1003-090	NC2057	AlTiN+TiSiN		2 (0.079")	0.58 (0.023")	4.6 (0.181")	9.5 (0.374")		12.50 (0.492")	\$95.54
		06A233		NC5254	Helica					4.4 (0.173")			\$95.54
		06A232		XP9000	Uncoated								\$95.54
	120°	06A241	S9MT1003-120	NC2057	AlTiN+TiSiN		-	-	2.9 (0.114")	9.5 (0.374")		11.50 (0.453")	\$95.54
		06A243		NC5254	Helica					2.7 (0.106")			\$95.54
		06A242		XP9000	Uncoated								\$95.54
	142°	06A251	S9MT1003-142	NC2057	AlTiN+TiSiN		-	-	1.72 (0.068")	9.5 (0.374")		11.50 (0.453")	\$95.54
		06A253		NC5254	Helica					1.64 (0.065")			\$95.54
		06A252		XP9000	Uncoated								\$95.54
12 (0.472")	60°	06A321	S9MT1203-060	NC2057	AlTiN+TiSiN	P35	2.4 (0.094")	0.69 (0.027")	9.0 (0.354")	11.5 (0.453")	3.0 (0.118")	15 (0.059")	\$115.37
		06A323		NC5254	Helica					8.6 (0.339")			\$115.37
		06A322		XP9000	Uncoated								\$115.37
	90°	06A331	S9MT1203-090	NC2057	AlTiN+TiSiN		2.4 (0.094")	0.69 (0.027")	5.5 (0.217")	11.5 (0.453")		15 (0.059")	\$115.37
		06A333		NC5254	Helica					5.3 (0.209")			\$115.37
		06A332		XP9000	Uncoated								\$115.37
	120°	06A341	S9MT1203-120	NC2057	AlTiN+TiSiN		-	-	3.5 (0.138")	11.5 (0.453")		13.5 (0.531")	\$115.37
		06A343		NC5254	Helica					3.3 (0.130")			\$115.37
		06A342		XP9000	Uncoated								\$115.37
	142°	06A351	S9MT1203-142	NC2057	AlTiN+TiSiN		-	-	2.07 (0.081")	11.5 (0.453")		13.5 (0.531")	\$115.37
		06A353		NC5254	Helica					1.98 (0.078")			\$115.37
		06A352		XP9000	Uncoated								\$115.37

SI	Angle ±0.02"	Code	Parts No.		Coating	Grade	Dimensions			Dmax.	Tmax.	S	CT ±0.025	PRICE
							Ød1	L1	L2					
16 (0.630")	60°	06A421	S9MT1603-060	NC2057	AlTiN+TiSiN	P35	3.2 (0.126")	0.92 (0.036")	12 (0.472")	15.5 (0.610")	11.6 (0.457")	3.18 (0.125")	20 (0.787")	\$177.88
		06A423		NC5254	Helica									\$177.88
		06A422		XP9000	Uncoated									\$177.88
	90°	06A431	S9MT1603-090	NC2057	AlTiN+TiSiN		3.2 (0.126")	0.92 (0.036")	7.3 (0.287")	15.5 (0.610")	7.0 (0.276")			\$177.88
		06A433		NC5254	Helica									\$177.88
		06A432		XP9000	Uncoated									\$177.88
	120°	06A441	S9MT1603-120	NC2057	AlTiN+TiSiN		-	-	4.6 (0.181")	15.5 (0.610")	4.4 (0.173")			\$177.88
		06A443		NC5254	Helica									\$177.88
		06A442		XP9000	Uncoated									\$177.88
	142°	06A451	S9MT1603-142	NC2057	AlTiN+TiSiN		-	-	2.76 (0.109")	15.5 (0.610")	2.67 (0.105")		18 (0.709")	\$177.88
		06A453		NC5254	Helica									\$177.88
		06A452		XP9000	Uncoated									\$177.88
20 (0.787")	60°	06A521	S9MT2004-060	NC2057	AlTiN+TiSiN	P35	4.0 (0.157")	1.16 (0.046")	15 (0.591")	19.5 (0.768")	14.6 (0.575")	4.76 (0.187")	25 (0.984")	\$357.86
		06A523		NC5254	Helica									\$357.86
		06A522		XP9000	Uncoated									\$357.86
	90°	06A531	S9MT2004-090	NC2057	AlTiN+TiSiN		4.0 (0.157")	1.16 (0.046")	9.2 (0.362")	19.5 (0.768")	8.9 (0.350")			\$357.86
		06A533		NC5254	Helica									\$357.86
		06A532		XP9000	Uncoated									\$357.86
	120°	06A541	S9MT2004-120	NC2057	AlTiN+TiSiN		-	-	5.8 (0.228")	19.5 (0.768")	5.6 (0.220")			\$357.86
		06A543		NC5254	Helica									\$357.86
		06A542		XP9000	Uncoated									\$357.86
	142°	06A551	S9MT2004-142	NC2057	AlTiN+TiSiN		-	-	3.44 (0.135")	19.5 (0.768")	3.36 (0.132")		22 (0.866")	\$357.86
		06A553		NC5254	Helica									\$357.86
		06A552		XP9000	Uncoated									\$357.86

Cylindrical Shank

NEW

Made of hardened high alloy steel, 53 HRC. Internal coolant.



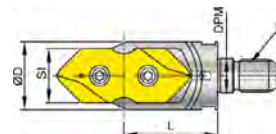
SI	Code	Parts No.	Ød	L1	L2	ØD	Screw	Key	PRICE
06	6A0001	00-99688-SI06-06	6	27	14	8	*NS-18037 / 0.6Nm	NK-T6	\$235.22
08	6A0101	00-99688-SI08-08	8	36	19	10.5	*NS-20045 / 0.6Nm	NK-T6	\$259.98
10	6A0201	00-99688-SI10-10	10	40	22.5	13	*NS-25060 / 0.9Nm	NK-T7	\$287.83
12	6A0301	00-99688-SI12-12	12	45	25	15.5	NS-30072 / 2.0Nm	NK-T9	\$287.83
16	6A0401	00-99688-SI16-16	16	48	32	21	NS-35080 / 2.5Nm	NK-T15	\$383.78
20	6A0501	00-99688-SI20-20	20	50	35	26	NS-50125 / 5.5Nm	NK-T20	\$479.72

* Torque screwdriver is recommended.

Screw Fit Cutter

NEW

Made of hardened high alloy steel, 53 HRC. Internal coolant.



SI	Code	Parts No.	ØD	L	M	DPM	Screw	Key	PRICE
06	6A2001	00-99688-SI06-M04	8	14.5	M4xP0.7	4.5	*NS-18037 / 0.6Nm	NK-T6	\$235.22
08	6A2101	00-99688-SI08-M05	10	19	M5xP0.8	5.5	*NS-20045 / 0.6Nm	NK-T6	\$259.98
10	6A2201	00-99688-SI10-M06	12	22	M6xP1.0	6.5	*NS-25060 / 0.9Nm	NK-T7	\$287.83
12	6A2301	00-99688-SI12-M08	16	25	M8xP1.25	8.5	NS-30072 / 2.0Nm	NK-T9	\$287.83
16	6A2401	00-99688-SI16-M10	20	31	M10xP1.5	10.5	NS-35080 / 2.5Nm	NK-T15	\$383.78
20	6A2501	00-99688-SI20-M12	25	35	M12xP1.75	12.5	NS-50125 / 5.5Nm	NK-T20	\$479.72

* Torque screwdriver is recommended.



ENGRAVING Starter Kit



CONTENT

- 1 x Holder
- 1 x T7 Key
- 3 x Inserts

Angle	Code	Parts No.	Shank Ø	Insert included	PRICE
45°	691201-4501	00-99619-V045-03K-71	6	V04506T1W06-NC2071	\$249.15
	691201-4502	00-99619-V045-03K-32		V04506T1W06-NC2032	\$263.07
	691201-4504	00-99619-V045-03K-31		V04506T1W06-NC9031	\$263.07
60°	692201-6001	00-99619-V060-03K-71	6	V06006T1W06-NC2071	\$247.60
	692201-6002	00-99619-V060-03K-32		V06006T1W06-NC2032	\$261.53
	692201-6003	00-99619-V060-03K-35		V06006T1W06-NC2035	\$281.64
	692201-6004	00-99619-V060-03K-31		V06006T1W06-NC9031	\$261.53





NC SPOT DRILL oooo One Pocket, So Many Possibilities

THE ORIGINAL
and Still
THE BEST

TOOL HOLDERS

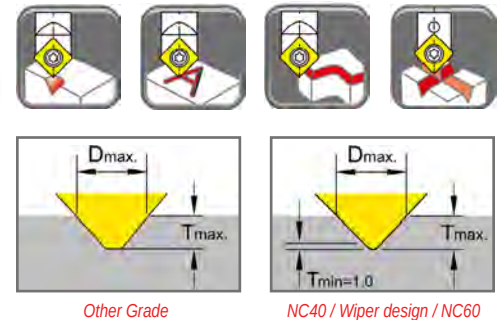
Code	Holder Parts No.	Angle	Ød	L	M	DPM	Dmax.	Tmax.	Screw/Key	PRICE
109-604002	00-99616-14-12	90°	12	100	-	-	-	-	NS-35080 2.5 Nm NK-T15	\$117.61
109-604004	00-99616-14		16	100	-	-	-	-		\$117.61
109-604007	00-99616-14-150L		16	150	-	-	-	-		\$213.55
109-604009	00-99616-14-220L		20	220	-	-	-	-		\$340.45
109-614001	00-99616-14-1/2		1/2"	100	-	-	-	-		\$117.61
109-614002	00-99616-14-5/8	100°	5/8"	100	-	-	-	-		\$117.61
109-624001	00-99616-14-M8		-	30	M8xP1.25	8.5	-	-		\$216.65
109-604011	00-99616-20-100	120°	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

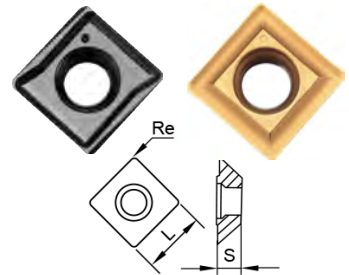
- NC40:
- Wiper design, universal grade for all unhardened steel.
 - Each insert has 4 cutting edges.
- NC10:
- High positive angle and fully ground cutting edge and relief angle.
 - Universal grade for non-ferrous metal, cast iron and stainless steel.
 - Each insert has 4 cutting edges.
- NC60:
- Wiper 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.



Code	Insert Parts No.	Coating	Grade	Dimensions			Dmax.	Tmax.	PRICE
				L	S	Re			
109-014401	N9MT11T3CT	NC40	TiN	11.11	3.97	0.8	14	7	\$42.59
109-014402		NC10	TiAlN			(0.3)			\$42.59
109-014403		NC60	CERMET			0.8			\$56.24
109-014234	N9MT11T3CT2T	H-NC5071	TiAlN & TiN			0.8			\$45.50
109-014202		H-NC40	TiN			0.8			\$45.50
109-014203		H-NC9076	DLC			0.8			\$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



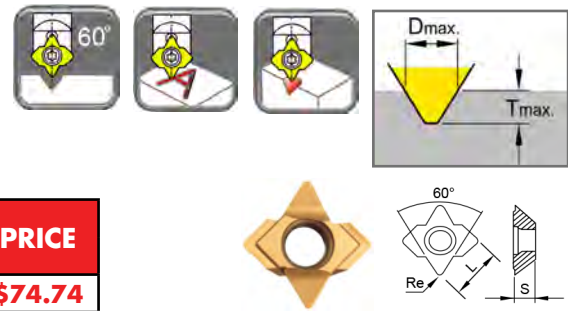
STARTER Kit



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.



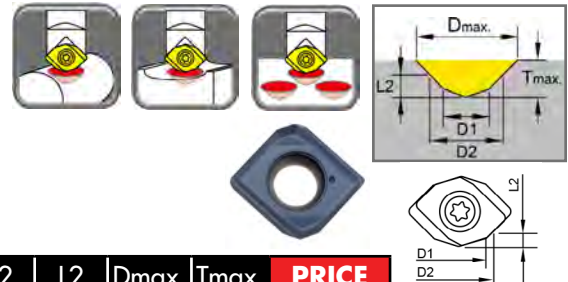
Code	Insert Parts No.	Coating	Grade	Dimensions			Dmax.	Tmax.	PRICE
				L	S	Re			
109-014204	N9MT11T3P60-NC40	TiN	P35	11	3.97	0.8	6.2	4	\$74.74

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

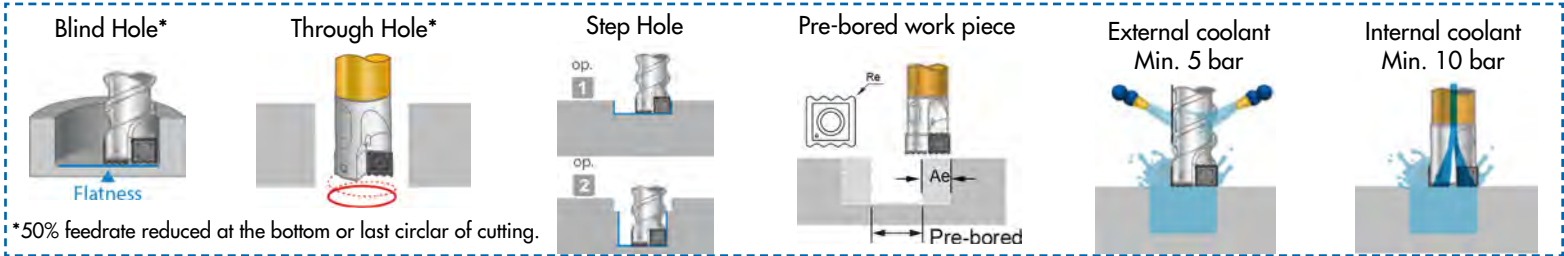
CORNER ROUNDING

- 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.



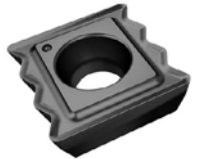
RC1.0 ~ RC3.0
All are interchangeable on same holder

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



Inserts

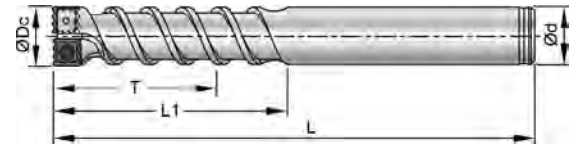
- NC5072 : • P40, TiAlN coating. General purpose, suitable for almost all kind of steel, stainless steel and Titanium.
- Recommended while clamping devices is unstable or deep hole drilling or apply on low power machines.
- NC2032 : • K20F, TiAlN coating.
- Design for high performance cutting, special good for cast iron and hardened material <HRC50°.



Code	Parts No.	Grade	Coating		Dimensions			Screw	Key	PRICE
					L	S	Re			
109-041021	01-N9MX04T002	NC5072	P40		4.75	1.8	0.2	*NS-18037 0.6Nm	NK-T6	\$39.72
109-041001		NC2032	K20F							\$39.72
109-042021	01-N9MX05T103	NC5072	P40					*NS-20045 0.6Nm	NK-T6	\$39.72
109-042001		NC2032	K20F							\$39.72
109-043021	01-N9MX070204	NC5072	P40					*NS-25045 0.9Nm	NK-T7	\$39.72
109-043001		NC2032	K20F							\$39.72
109-044021	01-N9MX100306	NC5072	P40					NS-30072 2.0Nm	NK-T9	\$44.23
109-044001		NC2032	K20F							\$44.23
109-045021	01-N9MX12T308	NC5072	P40					NS-35080 2.5Nm	NK-T15	\$49.11
109-045001		NC2032	K20F							\$49.11

Cylindrical Shank

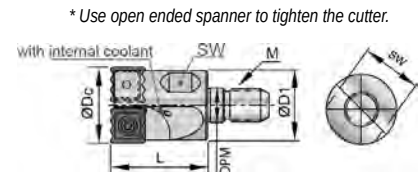
- Made from hardened high alloy steel 48 HRC.
- Unique helical groove design generates chip-removing coolant stream.
- Designed for CNC machine with external coolant.



Code	Parts No	Type	Capable of drill dia. mm		ØDc	T	L1	L	Ød	Insert Type	Max. ramping angle	PRICE
			Dmin.	Dmax.								
109-401001	00-99321-010-1320	BC10-HD11-1320	13	20	11	30	40	80	10	N9MX04T002	20°	\$278.55
109-402001	00-99321-012-1525	BC12-HD13-1525	15	25	13	36	50	100	12	N9MX05T103		\$278.55
109-403001	00-99321-016-2030	BC16-HD17-2030	20	30	17	50	60	110	16	N9MX070204		\$312.94
109-404001	00-99321-020-2540	BC20-HD22-2540	25	40	22	60	70	125	20	N9MX100306		\$343.89
109-405001	00-99321-025-3050	BC25-HD27-3050	30	50	27	75	85	165	25	N9MX12T308		\$388.59

Screw Fit Cutter

- Made from hardened high alloy steel 42 HRC.
- With internal coolant.
- Standard screw-fit body adapts to almost any kinds of the screw-fit tool holder or extension bar in the market.
- Possible to apply for enlarge hole.



Code	Parts No.	Type	Capable of drill dia. mm		ØDc	L	M	DPM	Ød1	SW	Insert Type	Max. ramping angle	PRICE
			Dmin.	Dmax.									
109-421001	00-99323-010-1320	M05-HD11-1320	13	20	11	20	M5	5.5	10	10	N9MX04T002	20°	\$237.28
109-422001	00-99323-012-1525	M06-HD13-1525	15	25	13	25	M6	6.5	12	12	N9MX05T103		\$237.28
109-423001	00-99323-016-2030	M08-HD17-2030	20	30	17	25	M8	8.5	16	14	N9MX070204		\$249.32
109-424001	00-99323-020-2540	M10-HD22-2540	25	40	22	30	M10	10.5	20	18	N9MX100306		\$278.55
109-425001	00-99323-025-3050	M12-HD27-3050	30	50	27	35	M12	12.5	25	23	N9MX12T308		\$312.94

* Special size is available by request

**Disclaimer - Prices are subject to change without notice



MCC Mill

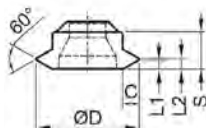
Specialized on narrow spaces below 10mm by indexable inserts



60° Deburring Mill Inserts

- For front and back deburring.
- Also for threading application.

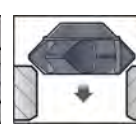
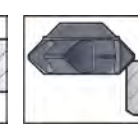
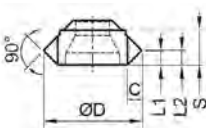
NC2032: Steel
XP9000: Non-Ferrous



Holder Size	Code	Parts No.	Coating	Grade	ØD ±0.025	L1	L2	S ±0.025	C	Plunge 0.1C		Pitch Range		PRICE
										min.hole	max.hole	mm	TPI	
CR05	01R2101	R06005-05006-32	TiAlN	K20F	5.0	0.35	0.45	2.0	0.40	4.2	4.8	0.6-0.75	32-28	\$43.28
	01R2102	R06005-05006-00	Uncoated											\$43.28
	01R2103	R06005-05010-32	TiAlN											\$43.28
	01R2104	R06005-05010-00	Uncoated											\$43.28
CR07	01R2301	R06007-06810-32	TiAlN		6.8	0.40	0.50	2.35	0.50	5.6	6.6	0.8-1.25	28-20	\$46.67
	01R2302	R06007-06810-00	Uncoated											\$46.67
CR10	01R2601	R06010-08510-32	TiAlN		8.5	0.49	0.59	3.60	0.65	7.2	8.3	1.0-1.5	24-18	\$50.06
	01R2602	R06010-08510-00	Uncoated											\$50.06
	01R2603	R06010-10010-32	TiAlN		10.0	0.90	1.00	3.60	1.20	7.6	9.8	1.0-2.0	24-13	\$50.06
	01R2604	R06010-10010-00	Uncoated											\$50.06

90° Deburring Mill Inserts

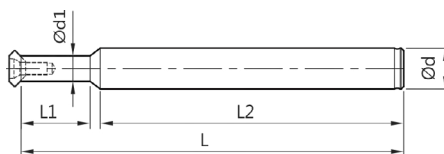
- Front & back deburring in one operation.



Holder Size	Code	Parts No.	Coating	Grade	ØD ±0.025	L1	L2	S ±0.025	C	Plunge 0.1C		PRICE
										min.hole	max.hole	
CR05	01R4101	R09005-05060-32	TiAlN	K20F	5.0	0.60	1.20	2.00	0.4	4.2	4.8	\$43.28
	01R4102	R09005-05060-00	Uncoated									\$43.28
CR07	01R4301	R09007-07020-32	TiAlN		7.0	1.00	1.20	2.35	0.7	5.6	6.8	\$46.67
	01R4302	R09007-07020-00	Uncoated									\$46.67
CR10	01R4601	R09010-10010-32	TiAlN		10.0	1.45	1.55	3.60	1.2	7.6	9.8	\$50.06
	01R4602	R09010-10010-00	Uncoated									\$50.06

Holders

- Made of hardened high alloy steel.
- **NEW** - extended length carbide holders.
- For both 60° and 90° deburring inserts.



Holder Size	Code	Parts No.	Type	Shank	Ød	Ød1	L1	L2	L	Screw/Key	PRICE
CR05	70R104	00-99626-CR05-06-039	BC06-CR05-039	Steel	6	3.5	4	33	39	 *NS-20045 0.6Nm/NK-T6	\$135.77
	70R105	00-99626-CR05-06-045	BC06-CR05-045		6	3.5	10	33	45		\$135.77
	70R103	00-99626-CR05-08-076	BC08-CR05-076		8	3.5	10	60	74		\$135.77
	70R101	00-99626-CR05-05-043	BC05-CR05-043		5	3.5	16	24	41		\$135.77
	70R106	00-99626-CR05-06-051	BC06-CR05-051		6	3.5	16	33	51		\$135.77
	70R107	00-99626-CR05-06-051W	BC06-CR05-051W	Carbide	6	3.5	16	33	51		\$329.72
CR07	70R304	00-99626-CR07-06-041	BC06-CR07-041	Steel	6	5.0	6	33	41	 *NS-25060 0.9Nm/NK-T7	\$135.77
	70R303	00-99626-CR07-08-078	BC08-CR07-078		8	5.0	13	60	75		\$135.77
	70R305	00-99626-CR07-06-049	BC06-CR07-049		6	5.0	14	33	49		\$135.77
	70R301	00-99626-CR07-06-052	BC06-CR07-052		6	5.0	21	27	49		\$135.77
	70R306	00-99626-CR07-06-057	BC06-CR07-057		6	5.0	22	33	57		\$135.77
	70R307	00-99626-CR07-06-057W	BC06-CR07-057W	Carbide	6	5.0	22	33	57		\$329.72
CR10	70R604	00-99626-CR10-08-049	BC08-CR10-049	Steel	8	6.8	7	40	49	NS-35080 2.5Nm/NK-T15	\$135.77
	70R603	00-99626-CR10-08-082	BC08-CR10-082		8	6.8	16	60	78		\$135.77
	70R605	00-99626-CR10-08-059	BC08-CR10-059		8	6.8	17	40	59		\$135.77
	70R606	00-99626-CR10-08-069	BC08-CR10-069		8	6.8	27	40	69		\$135.77
	70R607	00-99626-CR10-08-084W	BC08-CR10-084W	Carbide	8	6.8	27	55	84		\$395.99

*Torque screwdriver is recommended.

**Disclaimer - Prices are subject to change without notice

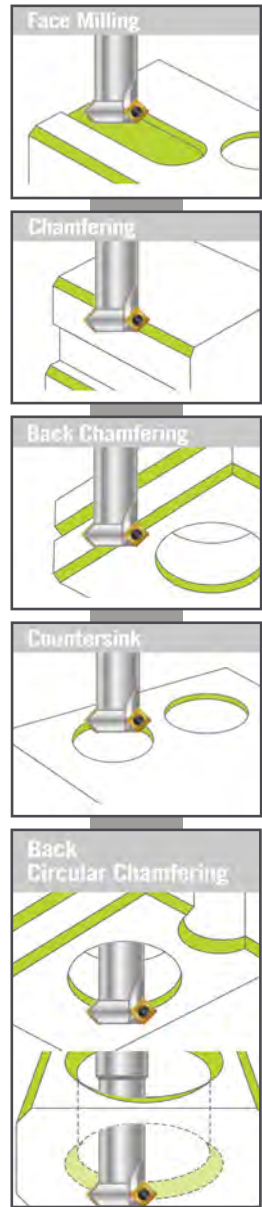


Designed for chamfering and countersinking with an indexable insert

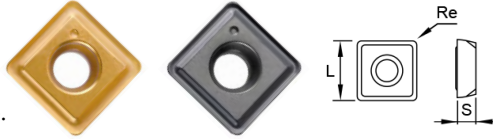
Chamfer Mill 45°

Benefits
for
You

- Ideal for Front and Back Chamfering.
- Smallest chamfer insert in the world.
- Smallest countersink diameter $\varnothing 7\text{mm}$.
- 4 times faster and up to 10 times higher feed rate than competitors.
- Dual relief angle insert, special edge honning and optimized coated.



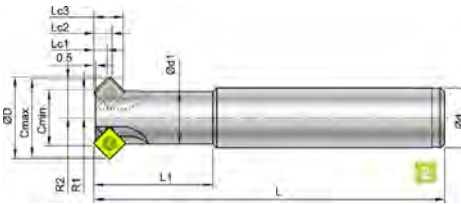
INSERTS



- NC2032: • AlTiN coating, very long tool life.
• Each insert has 4 cutting edges.
• For carbon steel, alloy steel, cast iron and hardened steel up to 56HRC.
- NC9071: • TiN coating, very sharp cutting edge produces excellent surface finish.
• Each insert has 4 cutting edges.
• For non-ferrous metal, aluminum, aluminum-alloy, brass, copper and stainless steel.

Code	Insert Parts No.		Coating	Grade	Dimensions			Screw	Key	PRICE
					L	S	Re			
109-021401	N9GX04T002	NC2032	AlTiN	K20F	4.0	1.8	0.2	*NS-18037 0.6Nm	NK-T6	\$27.49
109-021402		NC9071	TiN							\$27.49
109-023401	N9GX060204	NC2032	AlTiN		6.35	2.38	0.4	*NS-22055 0.9Nm	NK-T7	\$32.24
109-023402		NC9071	TiN							\$32.24
109-025401	N9GX090308	NC2032	AlTiN		9.52	3.18	0.8	NS-30072 2.0Nm	NK-T9	\$39.88
109-025402		NC9071	TiN							\$39.88

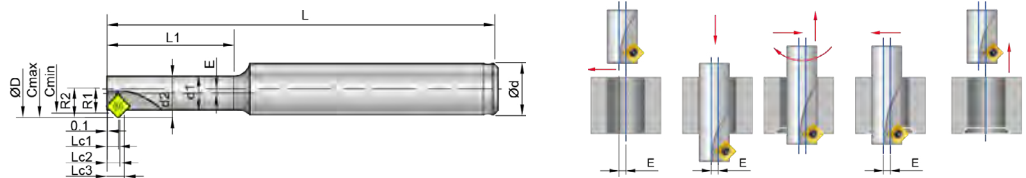
* Torque screwdriver is recommended.



HOLDERS

Code	Holder Parts No.	Type	Cmin $\varnothing$	Cmax $\varnothing$	$\varnothing d$	$\varnothing d1$	$\varnothing D$	R1	R2	L	L1	Lc1	Lc2	Lc3	$\varnothing z$	insert Screw/Key	PRICE
109-701001	00-99616-C10	BC10-C07-60	7	11	10	7.5	12	3.5	5.5	60	15	2.6	2.9	4.6	2	N9GX04T002 *NS-18037 0.6Nm NK-T6	\$253.75
109-701002	00-99616-C20	BC12-C11-100	11	16	12	9.6	16.15	5.5	8.0	100	25	2.6	2.9	5.0	4		\$313.56
109-703001	00-99616-C30	BC16-C15-120	15	21	16	14	22	7.5	10.5	120	40	3.5	4.9	7.9	4	N9GX060204 *NS-22055 0.9Nm NK-T7	\$331.33
109-703002	00-99616-C40	BC20-C19-130	19	25	20	18	26	9.5	12.5	130	50	3.5	4.9	7.9	4		\$350.73
109-705001	00-99616-C50	BC20-C22-130	22	32	20	-	33	11	16	130	-	5.5	7.1	12.1	4	N9GX090308 NS-30072 2.0Nm NK-T9	\$371.74
109-705002	00-99616-C52	BC25-C22-180	22	32	25	20	33	11	16	180	80	5.5	7.1	12.1	4		\$404.07

* Torque screwdriver is recommended.



HOLDERS

- Elliptical necked bar to optimize the tool strength.

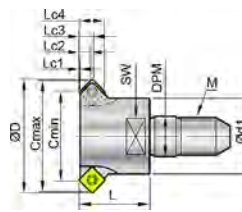
Code	Holder Parts No.	Type	Cmin $\varnothing$	Cmax $\varnothing$	$\varnothing d$	$\varnothing d1$	$\varnothing d2$	$\varnothing D$	R1	R2	L	L1	Lc1	Lc2	Lc3	E	$\varnothing z$	insert Screw/Key	PRICE
109-701003	00-99616-C02	BC10-C02-80	6.8	8.8	10	5.25	6.5	9	3.4	4.4	80	20	2.56	2.93	3.93	1.25	1	N9GX04T002 *NS-18037 0.6Nm NK-T6	\$447.71
109-701004	00-99616-C04	BC12-C04-100	8.5	10.8	12	6.45	8	11.1	4.25	5.4	100	25	2.51	2.98	4.13	1.55	1		\$447.71
109-701005	00-99616-C06	BC12-C06-100	10.26	13.2	12	7.88	9.75	13.5	5.13	6.6	100	30	2.51	2.98	4.45	1.88	1		\$447.71

* Torque screwdriver is recommended.

**Disclaimer - Prices are subject to change without notice

SCREW FIT CUTTER

>> See Shanks on Pages 22-23 <<



Code	Holder Parts No.	Type	Cmin ø	Cmax ø	øD	M	SW	ød1	DPM	L	Lc1	Lc2	Lc3	Lc4	øZ	insert Screw/Key	PRICE
109-721101	00-99616-CM16-M05	M05-CM16	11	16	16.15	M5	8	10	5.5	15	0.09	2.59	2.9	5.4	3	N9GX04T002	\$352.35
109-721201	00-99616-CM20-M06	M06-CM20	15	20	20.15	M6	11	12	6.5	16	0.09	2.59	2.9	5.4	4	*NS-18037	\$387.90
109-723301	00-99616-CM23-M08	M08-CM23	19	23.5	24	M8	14	16	8.5	19	0.16	2.41	3.08	5.33	4	0.6Nm / NK-T6	\$407.30
109-723401	00-99616-CM29-M10	M10-CM29	23	29	30	M10	18	20	10.5	17	0.54	3.54	4.87	7.87	4	N9GX060204 *NS-22055 0.9Nm/NK-T7	\$423.46

* Torque screwdriver is recommended.

STARTER Kit



	Code	Parts No.	Insert Included	Holder Included	Content	PRICE
1	109-701201-1401	00-99616-C1020-32	N9GX04T002-NC2032	00-99616-C10	2 tool holders + 10 inserts + 1 key	\$791.97
	109-701201-1402	00-99616-C1020-71	N9GX04T002-NC9071	00-99616-C20		\$791.97
2	109-703201-3401	00-99616-C3040-32	N9GX060204-NC2032	00-99616-C30		\$943.90
	109-703201-3402	00-99616-C3040-71	N9GX060204-NC9071	00-99616-C40		\$943.90
3	109-705201-5401	00-99616-C5052-32	N9GX090308-NC2032	00-99616-C50		\$1,102.29
	109-705201-5402	00-99616-C5052-71	N9GX090308-NC9071	00-99616-C52		\$1,102.29



NINE9 i-CENTER DRILL is the **world's first** indexable center drill, with no-resetting and no-sharpening features which can save you lots of time!

Nine9



- Excellent repeatability by insert type within 0.02mm in radial direction.
- Coolant can be supplied through the center of holder.
- Shorten set up and center drilling time.
- 0.05mm axial positional accuracy.





CORNER ROUNDING

RC 1.0~3.0mm

RC 1/64~1/8"

Various inserts fit on same holder

- Carbide insert can stand very long tool life.
- Each insert has 2 cutting edges.
- Higher cutting speed and feed rate.
- Combination corner rounding and 45° chamfering application on same insert.



All inserts fit into
the **BESTSELLING** Spot Drill
Chamfer Mill in the world!

If you don't have one, you're missing out!



STARTER Package

- Included one 5/8" tool holder, 5 inserts and one key
- 5 inserts are equal to 10 corner rounding cutters

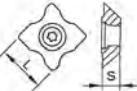
Order # 109-614202-4200

00-99616-14-IN5RC

MIX & MATCH OFFER

\$425.56



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