

# MEET OUR PREMIER BRANDS

Known for Their Exceptional Quality and Unique Performance!



**Distributed By**

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For Your Local Distributor Call: 1.800.465.5743

Ref. No 109-2310-5D

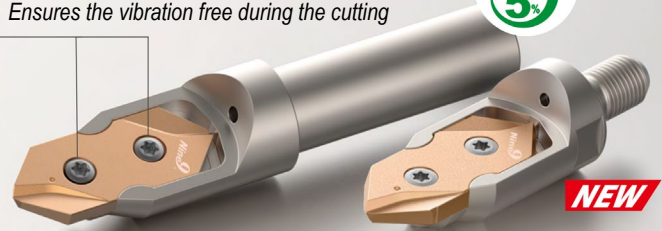


# ACE Spot Drill

Your NEW Spotting Concept!

Excellent Repeatability. No Need For Re-setting Tool Length By Insert Type.  
High Rigidity, High Performance Cutting, Ultra-long Tool Life.

Dual Clamping Screwed Design  
Ensures the vibration free during the cutting

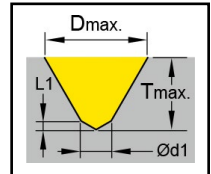
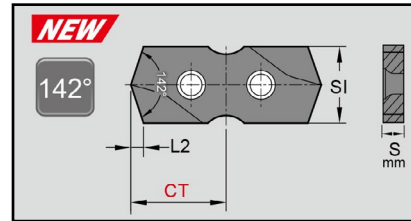
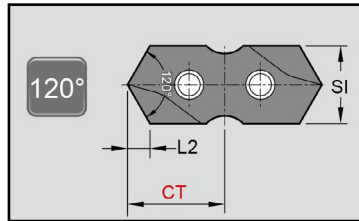
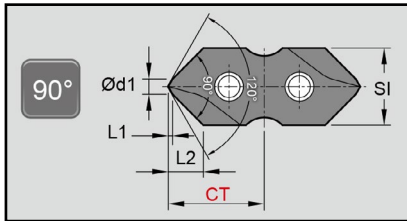


## Inserts **NEW**

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.

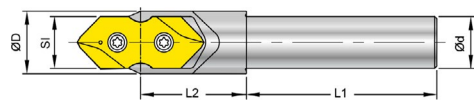
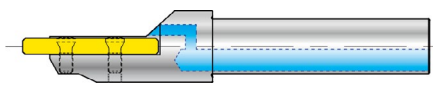


SI	Angle ±0.5	Code	Parts No.	Coating	Grade	Dimensions			Dmax.	Tmax.	S	CT ±0.025	PRICE	
						Ød1	L1	L2						
06	90°	06A031	S9MT06T1-090	NC2057	P35	1.2	0.35	2.75	5.5	2.5	1.8	7.5	\$49.61	
		06A033		NC5254									Helica	\$49.61
		06A032		XP9000									Uncoated	\$49.61
	120°	06A041	S9MT06T1-120	NC2057	P35	-	-	1.73	5.5	1.6	1.8	7.5	\$49.61	
		06A043		NC5254									Helica	\$49.61
		06A042		XP9000									Uncoated	\$49.61
	142°	06A051	S9MT06T1-142	NC2057	P35	-	-	1.03	5.5	0.95	1.8	7.0	\$49.61	
		06A053		NC5254									Helica	\$49.61
		06A052		XP9000									Uncoated	\$49.61
08	90°	06A131	S9MT0802-090	NC2057	P35	1.6	0.46	3.6	7.5	3.4	2.4	10	\$60.24	
		06A135		NC5254									Helica	\$60.24
		06A132		XP9000									Uncoated	\$60.24
	120°	06A141	S9MT0802-120	NC2057	P35	-	-	2.3	7.5	2.2	2.4	10	\$60.24	
		06A143		NC5254									Helica	\$60.24
		06A142		XP9000									Uncoated	\$60.24
	142°	06A151	S9MT0802-142	NC2057	P35	-	-	1.38	7.5	1.29	2.4	9	\$60.24	
		06A153		NC5254									Helica	\$60.24
		06A152		XP9000									Uncoated	\$60.24
10	90°	06A231	S9MT1003-090	NC2057	P35	2	0.58	4.6	9.5	4.4	3.0	12.50	\$79.38	
		06A233		NC5254									Helica	\$79.38
		06A232		XP9000									Uncoated	\$79.38
	120°	06A241	S9MT1003-120	NC2057	P35	-	-	2.9	9.5	2.7	3.0	12.50	\$79.38	
		06A243		NC5254									Helica	\$79.38
		06A242		XP9000									Uncoated	\$79.38
	142°	06A251	S9MT1003-142	NC2057	P35	-	-	1.72	9.5	1.64	3.0	11.50	\$79.38	
		06A253		NC5254									Helica	\$79.38
		06A252		XP9000									Uncoated	\$79.38
12	90°	06A331	S9MT1203-090	NC2057	P35	2.4	0.69	5.5	11.5	5.3	3.0	15	\$95.40	
		06A333		NC5254									Helica	\$95.40
		06A332		XP9000									Uncoated	\$95.40
	120°	06A341	S9MT1203-120	NC2057	P35	-	-	3.5	11.5	3.3	3.0	15	\$95.40	
		06A343		NC5254									Helica	\$95.40
		06A342		XP9000									Uncoated	\$95.40
	142°	06A351	S9MT1203-142	NC2057	P35	-	-	2.07	11.5	1.98	3.0	13.5	\$95.40	
		06A353		NC5254									Helica	\$95.40
		06A352		XP9000									Uncoated	\$95.40

SI	Angle ±0.5	Code	Parts No.	Coating	Grade	Dimensions			Dmax.	Tmax.	S	CT ±0.025	PRICE
						Ød1	L1	L2					
16	90°	06A431	S9MT1603-090	NC2057	AlTiN+TiSiN	3.2	0.92	7.3	15.5	7.0	3.18	20	\$140.33
		06A433		NC5254	Helica								\$140.33
		06A432		XP9000	Uncoated								\$140.33
	120°	06A441	S9MT1603-120	NC2057	AlTiN+TiSiN	-	-	4.6	15.5	4.4	3.18	18	\$140.33
		06A443		NC5254	Helica								\$140.33
		06A442		XP9000	Uncoated								\$140.33
	142°	06A451	S9MT1603-142	NC2057	AlTiN+TiSiN	-	-	2.76	15.5	2.67	3.18	18	\$140.33
		06A453		NC5254	Helica								\$140.33
		06A452		XP9000	Uncoated								\$140.33
20	90°	06A531	S9MT2004-090	NC2057	AlTiN+TiSiN	4.0	1.16	9.2	19.5	8.9	4.76	25	\$249.48
		06A533		NC5254	Helica								\$249.48
		06A532		XP9000	Uncoated								\$249.48
	120°	06A541	S9MT2004-120	NC2057	AlTiN+TiSiN	-	-	5.8	19.5	5.6	4.76	22	\$249.48
		06A543		NC5254	Helica								\$249.48
		06A542		XP9000	Uncoated								\$249.48
	142°	06A551	S9MT2004-142	NC2057	AlTiN+TiSiN	-	-	3.44	19.5	3.36	4.76	22	\$249.48
		06A553		NC5254	Helica								\$249.48
		06A552		XP9000	Uncoated								\$249.48

\* 60° spotting inserts are available on request.

## Cylindrical Shank NEW

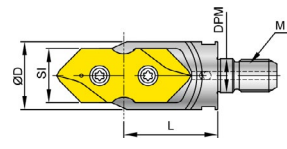


Made of hardened high alloy steel, 53 HRC. Internal coolant.

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	\$212.63
08	6A0101	00-99688-SI08-08	8	36	19	10.5	*NS-20045 / 0.6Nm	NK-T6	\$233.89
10	6A0201	00-99688-SI10-10	10	40	22.5	13	*NS-25060 / 0.9Nm	NK-T7	\$259.40
12	6A0301	00-99688-SI12-12	12	45	25	15.5	NS-30072 / 2.0Nm	NK-T9	\$259.40
16	6A0401	00-99688-SI16-16	16	48	32	21	NS-35080 / 2.5Nm	NK-T15	\$345.87
20	6A0501	00-99688-SI20-20	20	50	35	26	NS-50125 / 5.5Nm	NK-T20	\$432.34

\* Torque screwdriver is recommended.

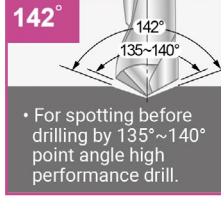
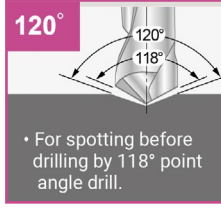
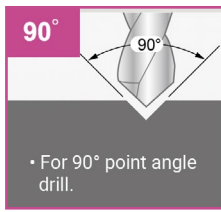
## Screw Fit Cutter NEW



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	\$214.04
08	6A2101	00-99688-SI08-M05	10	19	M5xP0.8	5.5	*NS-20045 / 0.6Nm	NK-T6	\$234.31
10	6A2201	00-99688-SI10-M06	12	22	M6xP1.0	6.5	*NS-25060 / 0.9Nm	NK-T7	\$260.25
12	6A2301	00-99688-SI12-M08	16	25	M8xP1.25	8.5	NS-30072 / 2.0Nm	NK-T9	\$260.25
16	6A2401	00-99688-SI16-M10	20	31	M10xP1.5	10.5	NS-35080 / 2.5Nm	NK-T15	\$347.00
20	6A2501	00-99688-SI20-M12	25	35	M12xP1.75	12.5	NS-50125 / 5.5Nm	NK-T20	\$433.76

\* 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	\$221.13
	691201-4502	00-99619-V045-03K-32		V04506T1W06-NC2032	\$232.47
	691201-4504	00-99619-V045-03K-31		V04506T1W06-NC9031	\$232.47
60°	692201-6001	00-99619-V060-03K-71	6	V06006T1W06-NC2071	\$221.13
	692201-6002	00-99619-V060-03K-32		V06006T1W06-NC2032	\$232.47
	692201-6003	00-99619-V060-03K-35		V06006T1W06-NC2035	\$250.90
	692201-6004	00-99619-V060-03K-31		V06006T1W06-NC9031	\$232.47



SCAN for Full Range



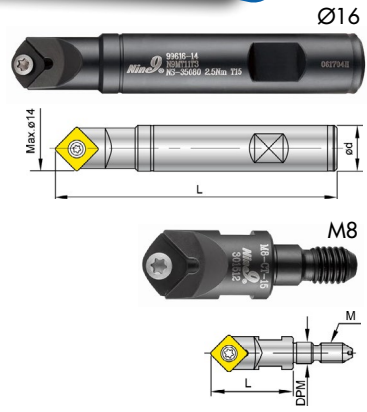


# NC SPOT DRILL OOO One Pocket, So Many Possibilities

THE ORIGINAL  
and Still  
THE BEST

## TOOL HOLDERS

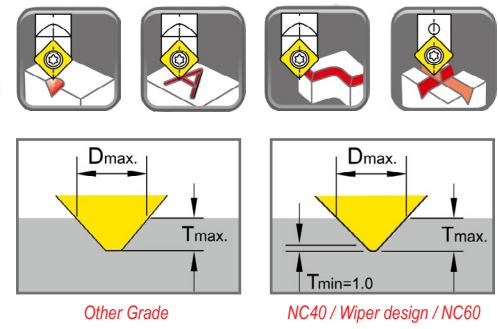
Code	Holder Parts No.	Angle	Ød	L	M	DPM	Dmax.	Tmax.	Screw/Key	PRICE
109-604002	00-99616-14-12	90°	12	100	-	-	-	-	NS-35080 2.5 Nm NK-T15	\$104.90
109-604004	00-99616-14		16	100	-	-	-	-		\$104.90
109-604007	00-99616-14-150L		16	150	-	-	-	-		\$189.95
109-604009	00-99616-14-220L		20	220	-	-	-	-		\$306.18
109-614001	00-99616-14-1/2		1/2"	100	-	-	-	-		\$104.90
109-614002	00-99616-14-5/8		5/8"	100	-	-	-	-		\$104.90
109-624001	00-99616-14-M8	-	30	M8xP1.25	8.5	-	-	-	\$192.78	
109-604011	00-99616-20-100	100°	20	100	-	-	16	6.3	-	\$128.99
109-604013	00-99616-20-120	120°	20	100	-	-	17	4.76	-	\$128.99
109-614003	00-99616-3/4-120		3/4"	100	-	-	0.669"	0.187"	-	\$128.99
109-604014	00-99616-20-142	142°	20	100	-	-	18.5	3.16	-	\$128.99
109-614004	00-99616-3/4-142		3/4"	100	-	-	0.728"	0.124"	-	\$128.99



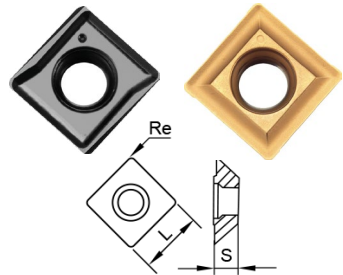
## N9MT11T3 90° 100° 120° 142°

### 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	\$36.50
109-014402		NC10	TiAlN			(0.3)			\$36.50
109-014403		NC60	CERMET			0.8			\$47.00
109-014234	N9MT11T3CT2T	H-NC5071	TiAlN & TiN	11.11	3.97	0.8	14	7	\$37.71
109-014202		H-NC40	TiN			0.8			\$37.71
109-014203		H-NC9076	DLC			0.8			\$44.79



\* 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	\$143.88
109-604104-4402	00-99616-14-02SAL			N9MT11T3CT-NC10	14	7	\$143.88
109-614102-4401	00-99616-14-5/8-02S	5/8"	100	N9MT11T3CT-NC40	0.551"	0.276"	\$143.88
109-614102-4402	00-99616-14-5/8-02SAL			N9MT11T3CT-NC10	0.551"	0.276"	\$143.88



Code	Parts No.	Ød	Insert Included	Content	PRICE
109-604204-4401	00-99616-14-ME6	16	N9MT11T3CT-NC40	1 tool holder + 6 inserts	\$340.20
109-604204-4402	00-99616-14-ME6AL		N9MT11T3CT-NC10		\$340.20
109-614202-4401	00-99616-14-IN6	5/8"	N9MT11T3CT-NC40	1 tool holder + 5 inserts + 1 key	\$340.20
109-614202-4402	00-99616-14-IN6AL		N9MT11T3CT-NC10		\$340.20

- 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.

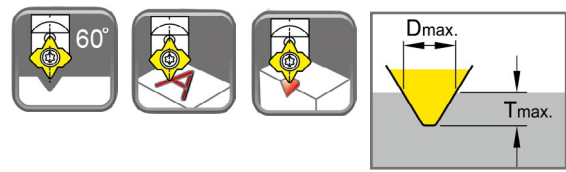
Code	Parts No.	Ød	Insert Included	Content	PRICE
109-604204-4200	00-99616-14-ME5RC	16	N9MT11T3RC10-NC40 N9MT11T3RC15-NC40 N9MT11T3RC20-NC40 N9MT11T3RC25-NC40 N9MT11T3RC30-NC40	1 tool holder + 5 inserts + 1 key	\$375.64



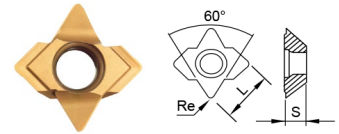
# N9MT11T3P60 60°

## 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	\$62.37



# 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	\$53.87
109-014220	N9MT11T3M10C-NC2033			M10x1.5	8.50	10.50	2.28		3.53	\$53.87
109-014221	N9MT11T3UNC25-NC2033	TiAlN	K20F	1/4-20 UNC	5.08	6.70	1.55	13	4.70	\$53.87
109-014222	N9MT11T3UNC31-NC2033			5/16-18 UNC	6.53	8.40	1.90		4.20	\$53.87
109-014223	N9MT11T3UNC38-NC2033			3/8-16 UNC	7.94	10.00	2.22		3.72	\$53.87

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.



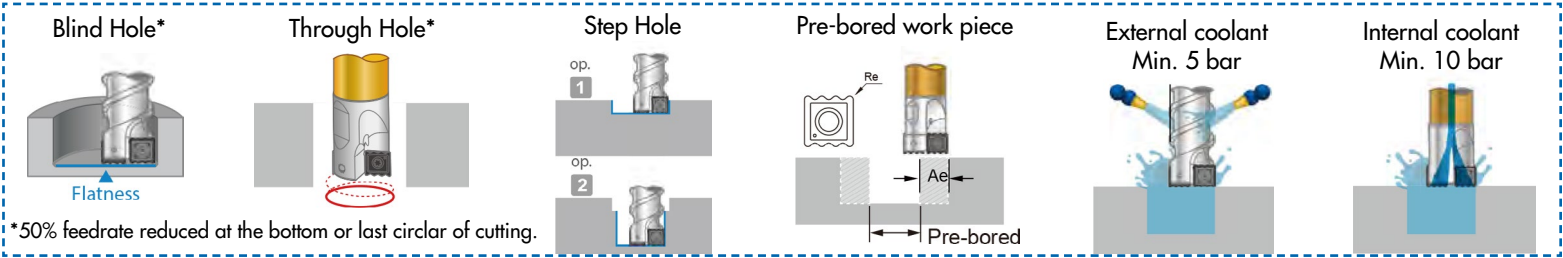
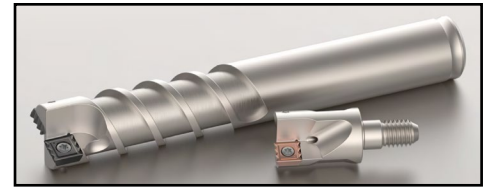
Insert Radius	Code	Insert Parts No.	Coating	Grade	Offset			Dimensions		PRICE	
					X	Y	Z	L	S		
1.0	109-014209	N9MT11T3RC10	NC40	TiN	K20F	2.75	1.5	2.5	11.11	3.97	\$53.87
	109-014224		NC9036	DLC							\$59.54
1.5	109-014210	N9MT11T3RC15	NC40	TiN	K20F	3.25	1.5	3	11.11	3.97	\$53.87
	109-014225		NC9036	DLC							\$59.54
2.0	109-014211	N9MT11T3RC20	NC40	TiN	K20F	3.75	1.5	3.5	11.11	3.97	\$53.87
	109-014226		NC9036	DLC							\$59.54
2.5	109-014212	N9MT11T3RC25	NC40	TiN	K20F	4.25	1.5	4	11.11	3.97	\$53.87
	109-014227		NC9036	DLC							\$59.54
3.0	109-014213	N9MT11T3RC30	NC40	TiN	K20F	4.75	1.4	4.4	11.11	3.97	\$53.87
	109-014228		NC9036	DLC							\$59.54
1/64	109-014214	N9MT11T3RC1/64	NC40	TiN	K20F	0.086"	0.059"	0.0747"	0.437"	0.156"	\$53.87
	109-014229		NC9036	DLC							\$59.54
1/32	109-014215	N9MT11T3RC1/32	NC40	TiN	K20F	0.101"	0.059"	0.090"	0.437"	0.156"	\$53.87
	109-014230		NC9036	DLC							\$59.54
1/16	109-014216	N9MT11T3RC1/16	NC40	TiN	K20F	0.133"	0.059"	0.122"	0.437"	0.156"	\$53.87
	109-014231		NC9036	DLC							\$60.10
3/32	109-014217	N9MT11T3RC3/32	NC40	TiN	K20F	0.164"	0.059"	0.153"	0.437"	0.156"	\$53.87
	109-014232		NC9036	DLC							\$59.54
1/8	109-014218	N9MT11T3RC 1/8	NC40	TiN	K20F	0.199"	0.055"	0.180"	0.437"	0.156"	\$53.87
	109-014233		NC9036	DLC							\$59.54



# NC Helix Drill

Programming Conditions

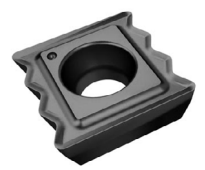
**Excellent Swarf Removal!**



\*50% feedrate reduced at the bottom or last circular of cutting.

## Inserts

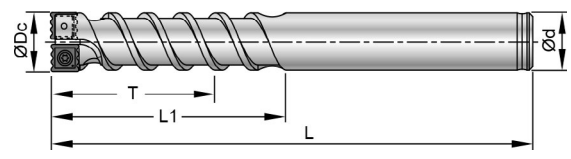
- NC5072 : • P40, TiAlN coating. General purpose, suitable for almost all kind of steel, stainless steel and Titanium.
  - Recommended while clamping devices is unstable or deep hole drilling or apply on low power machines.
- NC2032 : • K20F, TiAlN coating.
  - Design for high performance cutting, special 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	TiAlN		4.75	1.8	0.2	*NS-18037 0.6Nm	NK-T6	\$33.08
109-041001		NC2032	K20F								\$33.08
109-042021	01-N9MX05T103	NC5072	P40			5.75	2.0	0.3	*NS-20045 0.6Nm	NK-T6	\$33.08
109-042001		NC2032	K20F								\$33.08
109-043021	01-N9MX070204	NC5072	P40			7.5	2.4	0.4	*NS-25045 0.9Nm	NK-T7	\$33.08
109-043001		NC2032	K20F								\$33.08
109-044021	01-N9MX100306	NC5072	P40			10.0	3.18	0.6	NS-30072 2.0Nm	NK-T9	\$37.01
109-044001		NC2032	K20F								\$37.01
109-045021	01-N9MX12T308	NC5072	P40			12.5	3.97	0.8	NS-35080 2.5Nm	NK-T15	\$40.95
109-045001		NC2032	K20F								\$40.95

## Cylindrical Shank

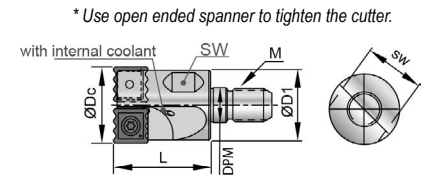
- Made from hardened high alloy steel 48 HRC.
- Unique helical groove design generates chip-removing coolant stream.
- Designed for CNC machine with external coolant.



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°	\$247.28
109-402001	00-99321-012-1525	BC12-HD13-1525	15	25	13	36	50	100	12	N9MX05T103		\$247.28
109-403001	00-99321-016-2030	BC16-HD17-2030	20	30	17	50	60	110	16	N9MX070204		\$277.20
109-404001	00-99321-020-2540	BC20-HD22-2540	25	40	22	60	70	125	20	N9MX100306		\$305.55
109-405001	00-99321-025-3050	BC25-HD27-3050	30	50	27	75	85	165	25	N9MX12T308		\$346.50

## 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.



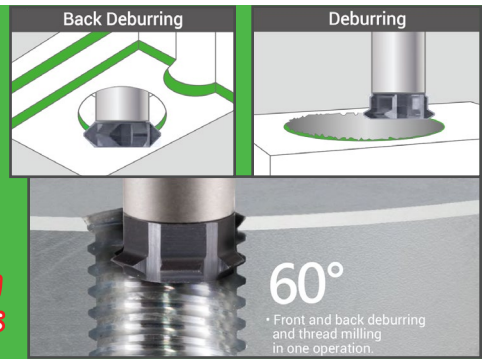
Code	Parts No.	Type	Capable of drill dia. mm		ØDc	L	M	DPM	Ød1	SW	Insert Type	Max. ramping angle	PRICE
			Dmin.	Dmax.									
109-421001	00-99323-010-1320	M05-HD11-1320	13	20	11	20	M5	5.5	10	10	N9MX04T002	20°	\$211.05
109-422001	00-99323-012-1525	M06-HD13-1525	15	25	13	25	M6	6.5	12	12	N9MX05T103		\$211.05
109-423001	00-99323-016-2030	M08-HD17-2030	20	30	17	25	M8	8.5	16	14	N9MX070204		\$222.08
109-424001	00-99323-020-2540	M10-HD22-2540	25	40	22	30	M10	10.5	20	18	N9MX100306		\$247.28
109-425001	00-99323-025-3050	M12-HD27-3050	30	50	27	35	M12	12.5	25	23	N9MX12T308		\$277.20

\* Special size is available by request



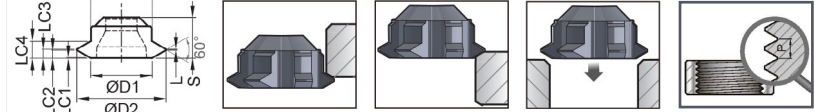
## Applications

Specialized on narrow space below 10mm by indexable inserts



## 60° Deburring Mill Inserts **NEW**

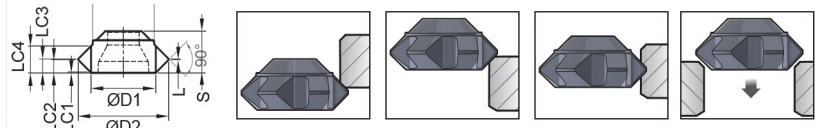
- For front and back deburring.
- Also for threading application.



Code	Parts No.	Coating	Grade	ØD1	ØD2	L	LC1	LC2	LC3	LC4	S	Plunge 0.1C		Pitch Range		PRICE
												min.hole	max.hole	mm	TPI	
01R2101	R06005-05006-32	TiAlN	K20F	3.9	5.0	0.06	0.03	0.35	0.41	2.45	2.45	4.1	4.8	0.7-0.75	28-24	\$36.27
01R2102	R06005-05006-00	Uncoated														\$36.27
01R2103	R06005-05010-32	TiAlN		3.9	5.0	0.1	0.03	0.32	0.42	2.45	2.45	4.1	4.8	0.8-1.0	28-24	\$36.27
01R2104	R06005-05010-00	Uncoated														\$36.27
01R2301	R06007-06810-32	TiAlN		5.5	6.8	0.1	0.03	0.40	0.50	3.25	3.25	5.7	6.6	0.8-1.25	20	\$39.23
01R2302	R06007-06810-00	Uncoated														\$39.23
01R2601	R06010-08510-32	TiAlN		6.9	8.5	0.1	0.03	0.49	0.59	4.60	4.60	7.1	8.3	1.0-1.5	18-16	\$42.19
01R2602	R06010-08510-00	Uncoated														\$42.19
01R2603	R06010-10010-32	TiAlN	6.9		10.0	0.1	0.03	0.92	1.02	4.60	4.60	7.1	9.8	1.0-2.0	14-9	\$42.19
01R2604	R06010-10010-00	Uncoated														\$42.19

## 90° Deburring Mill Inserts **NEW**

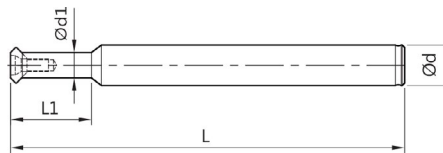
- Front & back deburring in one operation.



Code	Parts No.	Coating	Grade	ØD1	ØD2	L	LC1	LC2	LC3	LC4	S	Plunge 0.1C		PRICE
												min.hole	max.hole	
01R4101	R09005-05060-32	TiAlN	K20F	3.9	5.0	0.6	0.05	0.6	1.2	1.77	2.45	4.1	4.8	\$36.27
01R4102	R09005-05060-00	Uncoated												\$36.27
01R4301	R09007-07020-32	TiAlN		5.1	7.0	0.2	0.05	1.0	1.2	2.17	3.25	5.3	6.8	\$39.23
01R4302	R09007-07020-00	Uncoated												\$39.23
01R4601	R09010-10010-32	TiAlN		7.2	10.0	0.1	0.05	1.45	1.55	2.97	4.60	7.4	9.8	\$42.19
01R4602	R09010-10010-00	Uncoated												\$42.19

## HOLDERS **NEW**

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



Code	Parts No.	Type	Shank	Ød	Ød1	L1	L	Insert Type	Screw	Key	PRICE
70R102	00-99626-CR05-05-031	BC05-CR05-031	Steel	5	3.5	6 (1xD)	31	Rxxx05	*NS-20045 0.6Nm	NK-T6	\$120.66
70R103	00-99626-CR05-08-076	BC08-CR05-076		8	3.5	12 (2xD)	76				\$120.66
70R101	00-99626-CR05-05-043	BC05-CR05-043		5	3.5	18 (3xD)	43				\$120.66
<b>NEW</b> 70R107	00-99626-CR05-06-051W	BC06-CR05-051W	Carbide	6	3.5	16	51				\$287.22
70R302	00-99626-CR07-06-036	BC06-CR07-036	Steel	6	5	8	36	Rxxx07	NS-25060 0.9Nm	NK-T7	\$120.66
70R303	00-99626-CR07-08-078	BC08-CR07-078		8	5	16	78				\$120.66
70R301	00-99626-CR07-06-052	BC06-CR07-052		6	5	24	52				\$120.66
<b>NEW</b> 70R307	00-99626-CR07-06-057W	BC06-CR07-057W	Carbide	6	5	22	57				\$287.22
70R602	00-99626-CR10-08-040	BC08-CR10-040	Steel	8	6.8	10	40	Rxxx10	NS-35080 2.5Nm	NK-T15	\$120.66
70R603	00-99626-CR10-08-082	BC08-CR10-082		8	6.8	20	82				\$120.66
70R601	00-99626-CR10-08-070	BC08-CR10-070		8	6.8	30	70				\$120.66
<b>NEW</b> 70R607	00-99626-CR10-08-084W	BC08-CR10-084W		Carbide	8	6.8	27				84



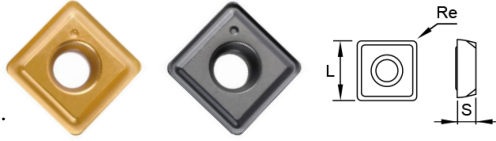
Designed for chamfering and countersinking with an Indexable Insert

# Chamfer Mill 45°



- Ideal for Front and Back Chamfering.
- Smallest chamfer insert in the world.
- Smallest countersink diameter ø7mm.
- 4 times faster and up to 10 times higher feed rate than competitors.
- Dual relief angle insert, special edge honing and optimized coated.

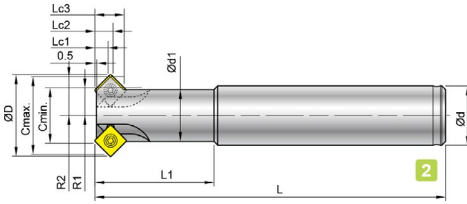
## INSERTS



- 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	K20F	4.0	1.8	0.2	*NS-18037 0.6Nm	NK-T6	\$22.95
109-021402		NC9071							\$22.95
109-023401	N9GX060204	NC2032		6.35	2.38	0.4	*NS-22055 0.9Nm	NK-T7	\$26.95
109-023402		NC9071							\$26.95
109-025401	N9GX090308	NC2032		9.52	3.18	0.8	NS-30072 2.0Nm	NK-T9	\$33.31
109-025402		NC9071							\$33.31

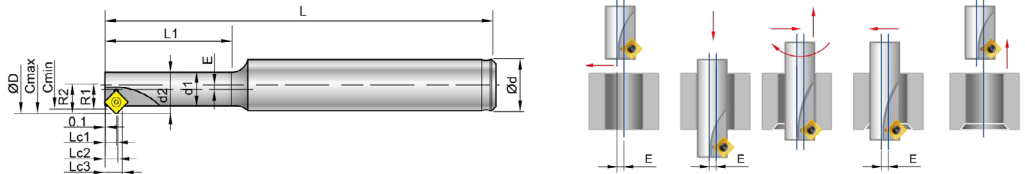
\* Torque screwdriver is recommended.



## HOLDERS

Code	Holder Parts No.	Type	Cmin ø	Cmax ø	ød	ød1	ød	R1	R2	L	L1	Lc1	Lc2	Lc3	øz	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	\$225.04
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		\$278.33
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	\$293.14
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		\$310.91
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	\$328.67
109-705002	00-99616-C52	BC25-C22-180	22	32	25	20	33	11	16	180	80	5.5	7.1	12.1	4		\$358.28

\* Torque screwdriver is recommended.

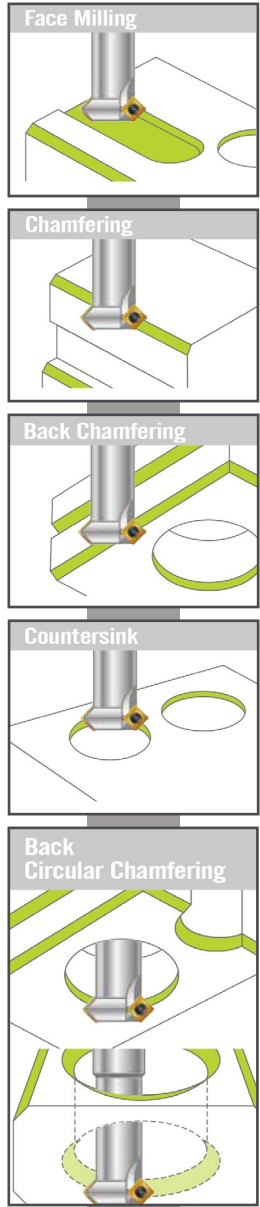


## HOLDERS

- Elliptical necked bar to optimize the tool strength.

Code	Holder Parts No.	Type	Cmin ø	Cmax ø	ød	ød1	ød2	ød	R1	R2	L	L1	Lc1	Lc2	Lc3	E	øz	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	\$396.77
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		\$396.77
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		\$396.77

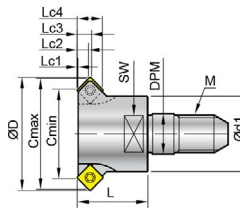
\* Torque screwdriver is recommended.





# SCREW FIT CUTTER

>> See Shanks on Pages 20-21



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	\$310.91
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	\$343.48
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	\$361.24
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	\$376.05

\* Torque screwdriver is recommended.

**STARTER  
Kit**



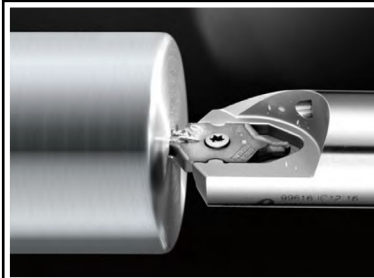
	Code	Parts No.	Insert Included	Holder Included	Content	PRICE
1	109-701201-1401	00-99616-C1020-32	N9GX04T002-NC2032	00-99616-C10	2 tool holders + 10 inserts + 1 key	\$695.84
	109-701201-1402	00-99616-C1020-71	N9GX04T002-NC9071	00-99616-C20		\$695.84
2	109-703201-3401	00-99616-C3040-32	N9GX060204-NC2032	00-99616-C30		\$829.08
	109-703201-3402	00-99616-C3040-71	N9GX060204-NC9071	00-99616-C40		\$829.08
3	109-705201-5401	00-99616-C5052-32	N9GX090308-NC2032	00-99616-C50		\$969.73
	109-705201-5402	00-99616-C5052-71	N9GX090308-NC9071	00-99616-C52	\$969.73	



**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!



- 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.



**SCAN HERE  
To  
Learn More**





# CORNER ROUNDING

RC 1.0~3.0mm  
RC 1/64~1/8"



SCAN To View **NEW/2023 Catalogue**

## 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

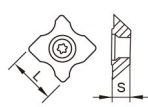
**MIX & MATCH OFFER**

**\$359.00**

Order # **109-614202-4200**  
00-99616-14-IN5RC

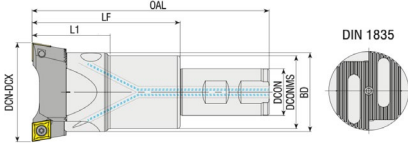


Insert Radius	Code	Parts No.	Coating	Grade	Offset			Dimensions		
					X	Y	Z	L	S	
1.0	014209	N9MT11T3RC10	NC40	TiN	K20F	2.75	1.5	2.5	11.11	3.97
	014224		NC9036	DLC						
1.5	014210	N9MT11T3RC15	NC40	TiN	K20F	3.25	1.5	3		
	014225		NC9036	DLC						
2.0	014211	N9MT11T3RC20	NC40	TiN	K20F	3.75	1.5	3.5		
	014226		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						





## Twin Tip Boring Heads



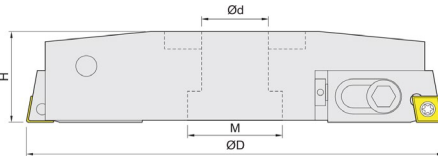
● Stock Caliber  
○ Factory Stock 2 Weeks

Part Number	Range	DCON	LF	OAL	Insert	Stock	Price
367-ABHRD18X22W16L90CC06	18-22mm	16	42	90	CCMT21	○	\$446.40
367-ABHRD18X22W16L150CC06	18-22mm	16	102	150	CCMT21	●	\$532.80
367-ABHRD18X22W16L200CC06	18-22mm	16	152	200	CCMT21	○	\$669.60
367-ABHRD22X28W20L100CC06	22-28mm	20	50	100	CCMT21	○	\$462.24
367-ABHRD22X28W20L150CC06	22-28mm	20	100	150	CCMT21	●	\$558.72
367-ABHRD22X28W20L200CC06	22-28mm	20	150	200	CCMT21	○	\$695.52
367-ABHRD28X38W20L110CC06	28-38mm	20	60	110	CCMT21	○	\$473.76
367-ABHRD28X38W20L160CC06	28-38mm	20	110	160	CCMT21	●	\$567.36
367-ABHRD28X38W20L230CC06	28-38mm	20	180	230	CCMT21	○	\$711.36
367-ABHRD36X50W25L120CC06	36-50mm	25	64	120	CCMT21	○	\$480.96
367-ABHRD36X50W25L170CC06	36-50mm	25	114	170	CCMT21	○	\$576.00
367-ABHRD36X50W25L250CC06	36-50mm	25	194	250	CCMT21	○	\$721.44
367-ABHRD36X50W25L120CC09	36-50mm	25	64	120	CCMT32	○	\$480.96
367-ABHRD36X50W25L170CC09	36-50mm	25	114	170	CCMT32	●	\$576.00
367-ABHRD36X50W25L250CC09	36-50mm	25	194	250	CCMT32	○	\$721.44
367-ABHRD50X68W32L140CC09	50-68mm	32	80	140	CCMT32	○	\$498.24
367-ABHRD50X68W32L200CC09	50-68mm	32	140	200	CCMT32	●	\$600.48
367-ABHRD50X68W32L280CC09	50-68mm	32	220	280	CCMT32	●	\$747.36
367-ABHRD50X68W32L140CC12	50-68mm	32	80	140	CCMT43	○	\$498.24
367-ABHRD50X68W32L200CC12	50-68mm	32	140	200	CCMT43	○	\$600.48
367-ABHRD50X68W32L280CC12	50-68mm	32	220	280	CCMT43	○	\$747.36
367-ABHRD68X90W32L160CC12	68-90mm	32	100	160	CCMT43	○	\$550.08
367-ABHRD68X90W32L210CC12	68-90mm	32	150	210	CCMT43	○	\$660.96
367-ABHRD68X90W32L280CC12	68-90mm	32	220	280	CCMT43	○	\$825.12
367-ABHRD90X120W32L140CC12	90-120mm	32	80	140	CCMT43	○	\$600.48



SHAN GIN

## ADJUSTABLE ROUGH BORING BARS

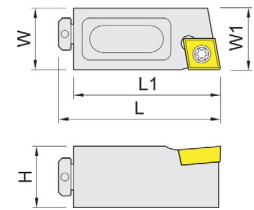


Part Number	ØD Range		Dimensions		Price
	D min	D Max	d	H	
329-TBJ175-25-31.75	7"	8"	1 1/4"	1.69"	\$465.00
329-TBJ200-25-31.75	8"	9"			\$516.77
329-TBJ225-25-31.75	9"	10"			\$568.54
329-TBJ250-25-31.75	10"	11"			\$620.00
329-TBJ275-25-31.75	11"	12"			\$671.77
329-TBJ300-25-31.75	12"	13"			\$723.54
329-TBJ325-25-31.75	13"	14"			\$775.00
329-TBJ350-25-31.75	14"	15"			\$826.77
329-TBJ375-25-31.75	15"	16"			\$878.54
329-TBJ400-25-31.75	16"	17"			\$930.00

## CARTRIDGE REPLACEMENT



SHAN GIN



Part Number	Dimensions					Price
	H	W	W1	L1	L	
329-TBJS925-CC12	0.98"	0.98"	1.004"	2.165"	2.36"	\$103.54

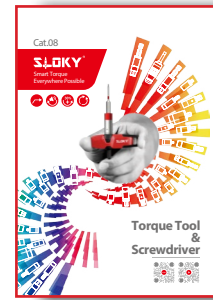


Order #	Togo Kit Includes	Price
309-TPK01-TGTX-12K	Torx Bits T6, T7, T8, T9, T10 and T15 in 25mm and 50mm lengths, 6 Torque Adapters and 2 Handles in a set	\$277.40
309-TPK02-TGIP-12K	Torx Plus Bits 6IP, 7IP, 8IP, 9IP, 10IP and 15IP in 25mm and 50mm lengths, 6 Torque Adapters and 2 Handles in a set	\$298.16
309-TPK03-TGHX-12K	Hex Bits 1.5mm, 2mm, 2.5mm, 3mm, 4mm and 5mm in 25mm and 50mm lengths, 6 Torque Adapters and 2 Handles in a set	\$277.40

**Save money**  
by not having to replace  
screws damaged  
by over-tightening!



For those looking for an Economical Start!



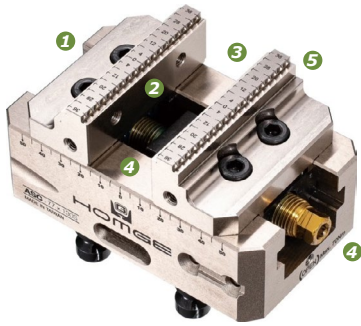
SCAN QR CODE  
To View  
Torque Tool & Screwdriver  
Full Catalogue

### Torque Screwdriver Single Set for TORX®, 25mm+50mm Bits

Parts No.	Contents						N.W.	Packaging Illustration	Price
	Handle	Adapter			Bit				
		Nm	KgfcM	In-lb	Size	25mm+50mm			
0-TPK01-TX06-0.6-S	TPK-H02	0.6	6.1	5.3	TX6	2 pcs + 2 pcs	122g		\$70.64
0-TPK01-TX07-0.9-S		0.9	9.2	8.0	TX7				\$70.64
0-TPK01-TX08-1.2-S		1.2	12.0	10.6	TX8				\$70.64
0-TPK01-TX08-2.0	TPK-H01	2.0	20.4	17.7	TX8	2 pcs + 2 pcs	130g		\$70.64
0-TPK01-TX09-1.4		1.4	14.0	12.4	TX9				\$70.64
0-TPK01-TX09-2.0		2.0	20.4	17.7					\$70.64
0-TPK01-TX10-2.0		2.0	20.4	17.7	TX10				\$70.64
0-TPK01-TX15-3.0		3.0	30.6	26.6	TX15				\$70.64
0-TPK01-TX20-5.0		5.0	51.0	44.3	TX20				\$70.64
0-TPK01-TX20-5.5	5.5	56.1	48.7	TX20					
0-TPK01-TX2025-5.5	TPK-H03	5.5	56.1	48.7		Bit 50mm	200g		
					TX20	2 pcs			\$83.17
					TX25	2 pcs			

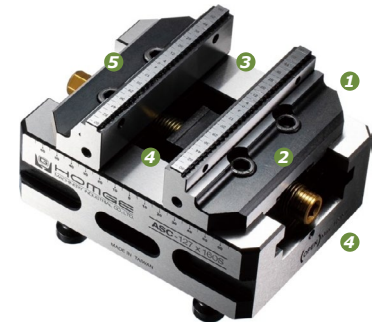
### Torque Screwdriver Single Set for TORX PLUS®, 25mm+50mm Bits

Parts No.	Contents						N.W.	Packaging Illustration	Price
	Handle	Adapter			Bit				
		Nm	KgfcM	In-lb	Size	25mm+50mm			
0-TPK02-6IP-0.6-S	TPK-H02-B	0.6	6.1	5.3	6IP	2 pcs + 2 pcs	130g		\$77.40
0-TPK02-7IP-0.9-S		0.9	9.2	8.0	7IP				\$77.40
0-TPK02-8IP-1.2-S		1.2	12.0	10.6	8IP				\$77.40
0-TPK02-9IP-1.4	TPK-H01-B	1.4	14.0	12.4	9IP	2 pcs + 2 pcs	130g		\$77.40
0-TPK02-10IP-2.0		2.0	20.4	17.7	10IP				\$77.40
0-TPK02-15IP-3.0		3.0	30.6	26.6	15IP				\$77.40
0-TPK02-20IP-5.0		5.0	51.0	44.3	20IP				\$77.40
0-TPK02-2025IP-5.5	TPK-H03-B	5.5	56.1	48.7		Bit 50mm	200g		
					20IP	2 pcs			\$92.75
					25IP	2 pcs			



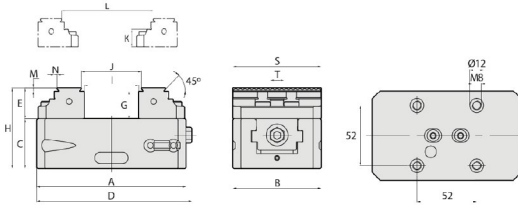
**ASC-77x130S**  
**\$1,229.00** each

- Vise body is made of **High quality Tool Steel**. The sideways are high frequency through hardened to 50 HRC for improved durability.
- Detachable jaws are made of **High quality Tool Steel** carburized to **55HRC**. Since both jaws are fixed size they can be used as a datum. Users can reverse the jaws to increase the clamping range. **Four-bolt** fixation of the jaws eliminates jaw lift.
- The vise's clamping force can achieve **1300KG**, the repeatability positioning precision of its clamping center is within **0.015mm**.
- Users can calibrate the clamping center of vise by adjusting the screws on both ends.
- The **45° dovetail structure with teeth** on the upper jaw ensures the bottom of the workpiece to be firmly clamped.



**ASC-127x160S**  
**\$1,553.00** each

**Buy a Vise & Base Plate TOGETHER for \$1,899.00!**  
Includes 4 free pull studs (\$76.00 Value)



**Buy a Vise & Base Plate TOGETHER for \$2,799.00!**  
Includes 4 free pull studs (\$92.00 Value)

**BASE PLATE**

**M-52x52 (8001)**  
\$812.00 each

Suitable for:  
ASC-77x102S  
ASC-77x130S  
ASC-77x130S4  
ASC-77x170S  
ASC-77x210S

- Features industry standard 52mm 4pull stud clamping on a high quality steel plate.
- Has 4 holes for clamping master pallet to machine table, indexer or tombstone.

**Pull Stud** **\$19.00** each  
M52PS  
4 pcs/set

**BASE PLATE**

**M-96x96 (8051)**  
\$1,399.00 each

Suitable for:  
ASC-127x160S  
ASC-127x105S  
ASC-127x260S  
ASC-127x105S  
ASC-127x360S

- Features industry standard 96mm 4pull stud clamping on a high quality steel plate.
- Has 4 holes for clamping master pallet to machine table, indexer or tombstone.

**Pull Stud** **\$23.00** each  
M96PS  
4 pcs/set

**TV-6 & TV-8 Vises**  
*Versatile machine vises with large opening capacity*

**SPECIFICATIONS** (Material: FCD 60 Ductile Iron. Hardness: HRC 50°) Unit: mm

Model	A	B	C	D	E	F	G	H	I
TV-6" Super-Open 10"	113	77	250	100	16	455	484	240	19
TV-8" Super-Open 12"	139	87	305	138	16	570	620	300	19

Model	J	K	L	M	Weight(kg)
TV-6" Super-Open 10"	19	160	44	162	36
TV-8" Super-Open 12"	24	215	61	230	62

Model	Price Each	4 Piece Plus Price
TV-6	\$849	\$799
TV-8	\$1,499	\$1,449

**GH-6 & GH-8 Vises**  
*Great value for the price!*

*Versatile machine vise which can be mounted on its end, side or base.*

**SPECIFICATIONS** (Material: FCD 55 Ductile Iron. Hardness: HRC 50°) Unit: mm/inch

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Weight(kg)
GH-6" Super-Open 8"	115	77	205	95	18	425	475	156	19	18	44	50	150	30
GH-8" Super-Open 12"	148	88	300	100	18	560	610	202	19	18	63	50	175	60

Model	Weight(kg)
GH-6" Super-Open 8"	36
GH-8" Super-Open 12"	62

Model	Price Each	4 Piece Plus Price
GH-6	\$699	\$649
GH-8	\$1,399	\$1,349



**PURCHASE A BAR AND  
A HEAD TO SUIT  
AND  
CHOOSE A 2ND HEAD  
FREE OF CHARGE!**

## Goodbye, vibrations!

Imagine a world without vibration. It would make your life easier, right? Eliminating vibration in machining completely is not possible. But with our machining tool holders, you can reduce vibration in machining substantially.

**Say hello to MAQ's self-tuning mass damper™.**

### MASS DAMPENING BORING BARS

feature a polymer based technology to instantly tune out vibration when boring at extended lengths. When the vibrations hit the polymer that supports the mass dampener inside the boring bar it changes its properties to tune out the vibration. The leading competitors feature an oil based system which over time breaks down or leaks making the bar less effective.

EDP	Description	Diameter	Length	DCON	Price
330-300566*	STMD I 5/16-4.7 SDQCR C	5/16"	0.94	-	<b>\$987.20</b>
330-300387*	STMD I 5/16-4.7 SCLCR C	5/16"	0.94	-	<b>\$987.20</b>
330-300392*	STMD I 3/8-5.9 SDUCR C	3/8"	1.18	-	<b>\$1,041.76</b>
330-300393*	STMD I 3/8-5.9 SCLCR C	3/8"	1.18	-	<b>\$1,041.76</b>
330-300040	STMDI 1/2-5.7"	1/2"	5.7"	SL12	<b>\$973.56</b>
330-300041	STMDI 5/8-6.7"	5/8"	6.7"	SL16	<b>\$1,273.64</b>
330-300050	STMDI 5/8-8.0"	5/8"	8.0"	SL16	<b>\$2,155.12</b>
330-300042	STMDI 3/4-7.9"	3/4"	7.9"	SL20	<b>\$1,490.17</b>
330-300051	STMDI 3/4-10.3"	3/4"	10.3"	SL20	<b>\$2,441.56</b>
330-300043	STMDI 1.00-10"	1"	10"	SL25	<b>\$1,558.37</b>
330-300052	STMDI 1.00-13.2"	1"	13.2"	SL25	<b>\$2,351.20</b>
330-300044	STMDI 1-1/4-12.6"	1-1/4"	12.6"	SL32	<b>\$1,590.77</b>
330-300053	STMDI 1-1/4-16.4"	1-1/4"	16.4"	SL32	<b>\$2,646.16</b>
330-300045	STMDI 1-1/2-16"	1-1/2"	16"	SL40	<b>\$2,250.60</b>
330-300054	STMDI 1-1/2-20.8"	1-1/2"	20.8"	SL40	<b>\$3,624.83</b>
330-300046	STMDI 2.00-20.4-SL40	2"	20.4"	SL40	<b>\$3,113.33</b>
330-300055	STMDI 2.00-26.0-SL40	2"	26.0"	SL40	<b>\$4,605.21</b>

Latest Innovation

\* Straight holder (8-12xD) with fixed cutter heads (Inch)



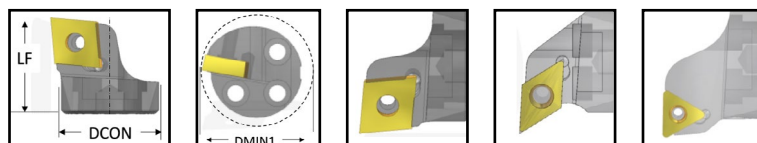
Latest Innovation

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To Learn More!



OR



DCON	DMIN	LF (CCMT Dimn. in brackets)	CCMT Heads	Price	DCMT Heads	Price	TCMT Heads	Price
SL12	0.629"	0.551" (0.565")	SCLCR-12-1/2 330-300071	<b>\$214.83</b>	SDUCR-12-1/2 330-300059	<b>\$214.83</b>	STFCR-12-1/2 330-300065	<b>\$219.95</b>
SL16	0.790"	0.629" (0.605")	SCLCR-16-5/8 330-300072	<b>\$235.29</b>	SDUCR-16-5/8 330-300060	<b>\$223.36</b>	STFCR-16-5/8 330-300066	<b>\$238.70</b>
SL20	0.984"	0.790" (0.752")	SCLCR-20-3/4 330-300073	<b>\$248.93</b>	SDUCR-20-3/4 330-300061	<b>\$235.29</b>	STFCR-20-3/4 330-300067	<b>\$238.70</b>
SL25	1.259"	0.870" (0.830")	SCLCR-25-1 330-300074	<b>\$271.10</b>	SDUCR-25-1 330-300062	<b>\$240.41</b>	STFCR-25-1 330-300068	<b>\$248.93</b>
SL32	1.575"	1.062" (0.950")	SCLCR-32-1-1/4 330-300075	<b>\$296.67</b>	SDUCR-32-1-1/4 330-300063	<b>\$255.75</b>	STFCR-32-1-1/4 330-300069	<b>\$255.75</b>
SL40	1.968" *	1.260" (0.990")	SCLCR-40-1-1/2 330-300196	<b>\$492.75</b>	SDUCR-40-1-1/2 330-300064	<b>\$237.00</b>	STFCR-40-1-1/2 330-300070	<b>\$237.00</b>

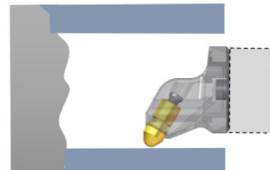
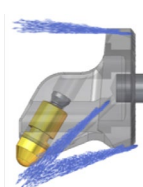
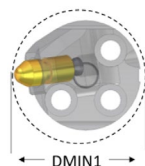
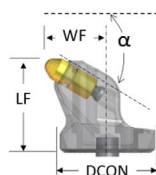
\* When used on 1-1/2" bar.

**MAQ's Diamond Burnishing** process for internal surfaces is known for its capacity to create a shiny surface finish with reduced friction, combined with the advantage of a hardened surface layer for wear resistance and a dense surface topology for its chemical resistance. **Mounted on an MAQ STMD Turning Tool Holder**, the burnishing tool will bring all these advantages to your turning machine, even for the internal turning operation, without even changing the setup of your workpiece clamping.

You just change the cutter head from your turning head to the burnishing head and run it!

### Diamond Burnishing Heads

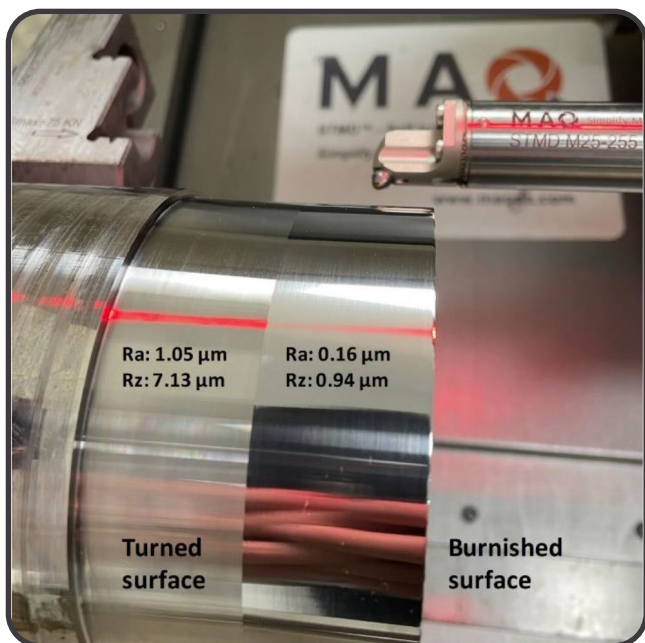
(with a diamond nib installed)



CP - Central and Peripheral Coolant



CALIBER Order Number	Type	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	$\alpha$ (°)	Burnishing Nib	Nib Crew	Weight (kg)	PRICE
330-300631	SL20 DB CP	SL 20	21	21	12	30	R 061402	IS M3x7	0,02	<b>\$1,302.00</b>
330-300632	SL25 DB CP	SL 25	30	25	16	30	R 061402	IS M3x7	0,04	<b>\$1,302.00</b>
330-300633	SL32 DB CP	SL 32	38	33	20	30	R 061402	IS M3x7	0,07	<b>\$1,432.20</b>
330-300634	SL40 DB CP	SL 40	43	34	24	30	R 061402	IS M3x7	0,14	<b>\$1,453.90</b>



### APPLICATIONS

The MAQ diamond burnishing tool works on carbon steel, tool steel, cast iron, ferrous and non-ferrous (P, M, K, N, S) materials. Suggested starting machining parameter to all materials:

Interference with workpiece material 0.05-0.2 mm (0.002-0.003 inch)

- Cutting speed 60-230 m/min (200-750 SFM)

- Feed rate 0.08-0.15 mm/rev (0.003-0.006 IPR)

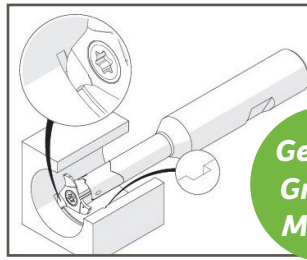
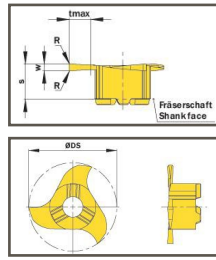
We recommend a feed rate at 70% of the feed rate in previous turning operation. Start with interference of 0.1 mm (0.004 pinch) and increase the interference if the surface finish is not reached. Recommended surface finish prior burnishing operation is  $Ra < 1.6 \mu\text{m}$  (64 pinch). After burnishing, the surface finish can normally reach  $Ra < 0.3 \mu\text{m}$ .

**Note:** Diamond burnishing normally has negligible impact on the size of the bore. A typical bore size change in burnishing of high alloy steel 4340 is within 10-15  $\mu\text{m}$  (0.0004-0.0006 inch).

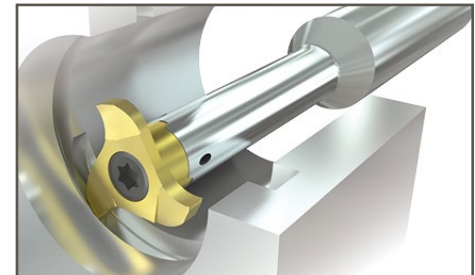
Watch This Quick Demo!



For use in bores as of minimum bore diameter 18,0 mm.



General Groove Milling

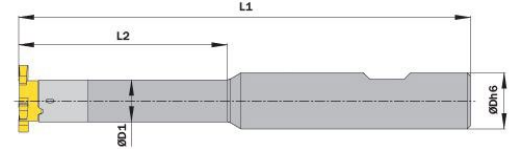


W <sup>+0,02</sup> mm	Nominal width of groove mm	R mm	ØDmin (Min. Bore) mm	Part number	Webcode*	tmax mm	S mm	ØDS mm	Number of Cutting Edges	Connectcode**	PRICE
0,74	0,7	-	18,0	U18.0070.00 Z	AEX1	1,5	5,75	17,7	3	UD09.0 UD12.0 UD13.0	\$52.74
0,84	0,8	-	18,0	U18.0080.00 Z	ABTV	1,7	5,75	17,7	3	UD09.0 UD12.0 UD13.0	\$53.73
0,94	0,9	-	18,0	U18.0090.00 Z	AGH7	1,9	5,75	17,7	3	UD09.0 UD12.0 UD13.0	\$52.74
1,21	1,1	-	18,0	U18.0110.00 G	AEQD	3,5	5,75	17,7	3	UD09.0	\$48.24
1,17	-	-	18,0	U18.0117.00 G	AAU0	3,5	5,75	17,7	3	UD09.0	\$49.14
1,41	1,3	0,1	18,0	U18.0130.01 G	AG1P	3,5	5,75	17,7	3	UD09.0	\$46.44
1,42	-	-	18,0	U18.0142.00 G	ANB1	3,5	5,75	17,7	3	UD09.0	\$50.40
1,5	-	0,2	18,0	U18.0150.02 G	AMW2	3,5	5,75	17,7	3	UD09.0	\$48.33
1,55	-	0,2	18,0	U18.0157.02 G	AJ80	3,5	5,75	17,7	3	UD09.0	\$50.67
1,71	1,6	0,1	18,0	U18.0160.01 G	AKKZ	3,5	5,75	17,7	3	UD09.0	\$47.16
2,0	-	0,2	18,0	U18.0200.02 G	AJXK	3,5	5,75	17,7	3	UD09.0	\$47.52
2,39	-	0,2	18,0	U18.0239.02 G	AG6E	3,5	5,75	17,7	3	UD09.0	\$50.67
2,5	-	0,2	18,0	U18.0250.02 G	ABXH	3,5	5,75	17,7	3	UD09.0	\$47.97
3,0	-	0,2	18,0	U18.0300.02 G	ADJZ	3,5	5,75	17,7	3	UD09.0	\$45.90
3,18	-	0,2	18,0	U18.0318.02 G	AJZU	3,5	5,75	17,7	3	UD09.0	\$49.14
4,0	-	0,2	18,0	U18.0400.02 G	AJUJ	3,5	5,75	17,7	3	UD09.0	\$47.52

\* www.simtek.eu/webcode

\*\* www.simtek.eu/cocode

Milling Cutter Shank,  
Weldon (DIN 6535 HB)



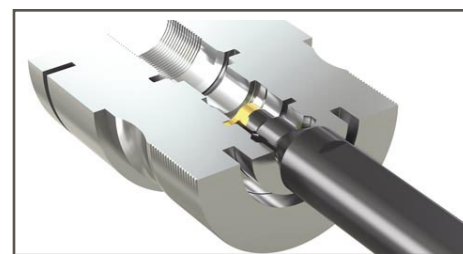
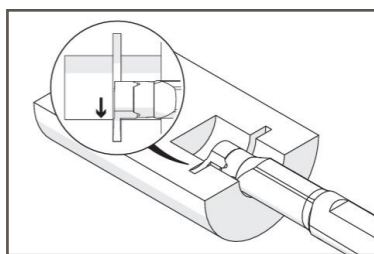
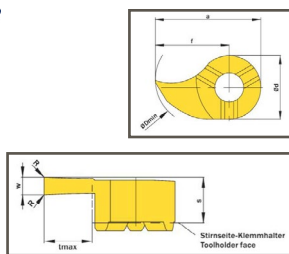
Anti-Vibration solid carbide type with through coolant and shank according to DIN 6535 HB.

ØDh6 mm	ØD1 mm	L2 mm	Part number	Webcode*	L1 mm	Screw	Screw driver	Connectcode**	PRICE
<b>▽ ØDh6 = 12,0 mm</b>									
12,0	9,0	32,0	U18.1209.32 B HM	AHQG	100,0	U M4x12 T15F	T15F	UD09.0	\$350.19
12,0	9,0	45,0	U18.1209.45 B HM	AGXG	100,0	U M4x12 T15F	T15F	UD09.0	\$395.64
12,0	9,0	64,0	U18.1209.64 B HM	AC32	120,0	U M4x12 T15F	T15F	UD09.0	\$466.20
<b>▽ ØDh6 = 12,7 mm</b>									
12,7	9,0	32,0	U18.0.500.09.32 B HM	AMW6	100,0	U M4x12 T15F	T15F	UD09.0	\$368.01
12,7	9,0	45,0	U18.0.500.09.45 B HM	AEW9	100,0	U M4x12 T15F	T15F	UD09.0	\$404.64
12,7	9,0	64,0	U18.0.500.09.64 B HM	AEYX	120,0	U M4x12 T15F	T15F	UD09.0	\$484.20
<b>▽ ØDh6 = 15,875 mm</b>									
15,875	9,0	18,0	U18.0.625.09.18 A ST (Steel)	AN7U	80,0	U M4x12 T15F	T15F	UD09.0	\$212.49
15,875	9,0	18,0	U18.0.625.09.18 B ST (Steel)	AFHD	80,0	U M4x12 T15F	T15F	UD09.0	\$206.10
15,875	9,0	25,0	U18.0.625.09.25 B HM	AET2	93,0	U M4x12 T15F	T15F	UD09.0	\$388.44
15,875	9,0	32,0	U18.0.625.09.32 B HM	ACQM	100,0	U M4x12 T15F	T15F	UD09.0	\$421.11
15,875	9,0	45,0	U18.0.625.09.45 B HM	AD9P	110,0	U M4x12 T15F	T15F	UD09.0	\$505.62
15,875	9,0	64,0	U18.0.625.09.64 B HM	AE40	130,0	U M4x12 T15F	T15F	UD09.0	\$565.92
15,875	13,0	64,0	U18.0.625.13.64 B HM	APQG	110,0	U M4x12 T15F	T15F	UD13.0	\$436.23
15,875	13,0	66,0	U18.0.625.13.66 B HM	AHS9	130,0	U M4x12 T15F	T15F	UD13.0	\$546.93
<b>▽ ØDh6 = 16,0 mm</b>									
16,0	9,0	25,0	U18.1609.25 B HM	AJ83	93,0	U M4x12 T15F	T15F	UD09.0	\$396.90
16,0	9,0	32,0	U18.1609.32 B HM	AH75	100,0	U M4x12 T15F	T15F	UD09.0	\$417.24
16,0	9,0	45,0	U18.1609.45 B HM	AA3N	110,0	U M4x12 T15F	T15F	UD09.0	\$481.68
16,0	9,0	64,0	U18.1609.64 B HM	ACGX	130,0	U M4x12 T15F	T15F	UD09.0	\$553.14
16,0	12,0	45,0	U18.1612.45 B HM	ADG9	110,0	U M4x12 T15F	T15F	UD12.0	\$568.53
16,0	13,0	64,0	U18.1613.64 B HM	AMT0	110,0	U M4x12 T15F	T15F	UD13.0	\$527.31
16,0	13,0	66,0	U18.1613.66 B HM	AJK6	130,0	U M4x12 T15F	T15F	UD13.0	\$554.49

\* www.simtek.eu/webcode

\*\* www.simtek.eu/cocode





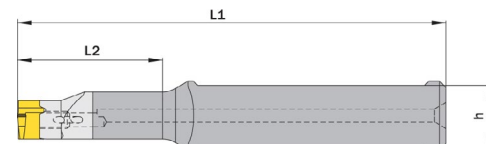
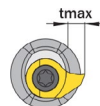
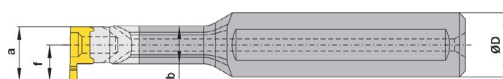
For general Grooving as well as for Circlip Ring Grooving. For use in bores as of minimum bore diameter 14,0mm, 16,0mm and 17,0mm.

W <sup>+0,03</sup> mm	Nominal width of groove mm	ØDmin (Min. Bore) mm	Part number	Webcode*	a mm	Ød mm	f mm	S mm	tmax mm	Connectcode**	PRICE
0,73	0,7	14,0	D14.0070.00 ZR/L	R AB83 L AMAH	13,5	9,0	9,0	5,3	1,2	D14	\$24.66
0,83	0,8	14,0	D14.0080.00 ZR/L	R AF8T L AMXS	13,5	9,0	9,0	5,3	1,3	D14	\$24.75
0,93	0,9	14,0	D14.0090.00 ZR/L	R AEAM L ADZA	13,5	9,0	9,0	5,3	1,5	D14	\$24.93
1,0	-	14,0	D14.0100.00 ZR/L	R APFC L AMY9	13,5	9,0	9,0	5,3	4,0	D14	\$24.12
1,2	1,1	14,0	D14.0110.00 GR/L	R AK84 L AM81	13,5	9,0	9,0	5,3	4,0	D14	\$23.49
1,4	1,3	14,0	D14.0130.00 GR/L	R ADGC L AAFB	13,5	9,0	9,0	5,3	4,0	D14	\$24.12
1,5	-	14,0	D14.0150.00 GR/L	R AK6Q L AAJG	13,5	9,0	9,0	5,3	4,0	D14	\$24.12
1,7	1,6	14,0	D14.0160.00 GR/L	R AJTA L AC77	13,5	9,0	9,0	5,3	4,0	D14	\$24.12
2,0	-	14,0	D14.0200.00 GR/L	R AG8N L AMW3	13,5	9,0	9,0	5,3	4,0	D14	\$24.12
2,5	-	14,0	D14.0250.00 GR/L	R AHSS L AA56	13,5	9,0	9,0	5,3	4,0	D14	\$24.12
3,0	-	14,0	D14.0300.00 GR/L	R AFFU L AHHA	13,5	9,0	9,0	5,3	4,0	D14	\$24.12
3,18	-	14,0	D14.0318.00 GR/L	R AKKN L APJD	13,5	9,0	9,0	5,3	4,0	D14	\$25.47
1,5	-	16,0	D14.0150.00.16 GR/L	R ANA2 L AG4U	15,0	9,0	10,5	5,2	5,5	D14	\$29.88
2,0	-	16,0	D14.0200.00.16 GR/L	R AAV5 L AKC6	15,0	9,0	10,5	5,2	5,5	D14	\$29.25
2,5	-	16,0	D14.0250.00.16 GR/L	R AN8C L AKHJ	15,0	9,0	10,5	5,2	5,5	D14	\$29.25
3,0	-	16,0	D14.0300.00.16 GR/L	R ANWY L ABDA	15,0	9,0	10,5	5,2	5,5	D14	\$29.25
1,5	-	17,0	D14.0150.00.17 GR/L	R AJDY L APPU	16,0	9,0	11,5	5,2	6,5	D14	\$29.25
2,0	-	17,0	D14.0200.00.17 GR/L	R AB9C L AH3A	16,0	9,0	11,5	5,2	6,5	D14	\$29.25
2,5	-	17,0	D14.0250.00.17 GR/L	R ANU2 L AFBS	16,0	9,0	11,5	5,2	6,5	D14	\$29.52
3,0	-	17,0	D14.0300.00.17 GR/L	R AATP L AHW1	16,0	9,0	11,5	5,2	6,5	D14	\$29.25

\* www.simtek.eu/webcode

\*\* www.simtek.eu/ccode

### Toolholder, For Internal Applications

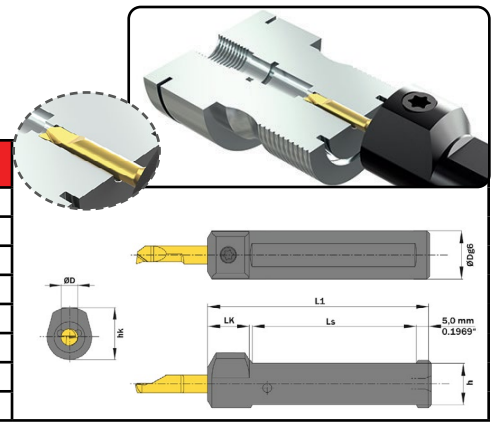


Anti-Vibration Solid Carbide Round Shank  
Toolholder with through coolant.

ØD <sup>h6</sup> mm	L2 mm	Part number	Webcode*	b mm	h mm	L1 mm	tmax mm	Screw	Screw driver	Connectcode**	PRICE
▽ ØD = 12,0 mm											
12,0	34,0	D14.0012.34 HM	AMQ7	9,5	11,0	100,0	6,5	D M4x12 T15F	T15F	D14	\$368.01
12,0	45,0	D14.0012.45 HM	AMYJ	9,5	11,0	110,0	6,5	D M4x12 T15F	T15F	D14	\$401.49
12,0	64,0	D14.0012.64 HM	AEQA	9,5	11,0	130,0	6,5	D M4x12 T15F	T15F	D14	\$471.33
▽ ØD = 12,7 mm											
12,7	34,0	D14.0.500.34 HM	AEBY	9,5	11,0	100,0	6,5	D M4x12 T15F	T15F	D14	\$372.42
12,7	45,0	D14.0.500.45 HM	AEZJ	9,5	11,0	110,0	6,5	D M4x12 T15F	T15F	D14	\$405.99
12,7	64,0	D14.0.500.64 HM	AAEN	9,5	11,0	130,0	6,5	D M4x12 T15F	T15F	D14	\$479.07
▽ ØD = 15,875 mm											
15,875	20,0	D14.0.625.20 ST	ADZ8	9,5	15,0	100,0	6,5	D M4x12 T15F	T15F	D14	\$172.62
15,875	34,0	D14.0.625.34 HM	AG7B	9,5	15,0	100,0	6,5	D M4x12 T15F	T15F	D14	\$448.92
15,875	45,0	D14.0.625.45 HM	AB11	9,5	15,0	110,0	6,5	D M4x12 T15F	T15F	D14	\$495.18
15,875	64,0	D14.0.625.64 HM	AAMU	9,5	15,0	130,0	6,5	D M4x12 T15F	T15F	D14	\$528.03
15,875	75,0	D14.0.625.75 HM	AEUU	9,5	15,0	145,0	6,5	D M4x12 T15F	T15F	D14	\$447.57
▽ ØD = 16,0 mm											
16,0	20,0	D14.0016.20 ST	ANP6	9,5	15,0	100,0	6,5	D M4x12 T15F	T15F	D14	\$169.65
16,0	34,0	D14.0016.34 HM	AFP8	9,5	15,0	100,0	6,5	D M4x12 T15F	T15F	D14	\$432.72
16,0	45,0	D14.0016.45 HM	AA1H	9,5	15,0	110,0	6,5	D M4x12 T15F	T15F	D14	\$477.81
16,0	64,0	D14.0016.64 HM	AB99	9,5	15,0	130,0	6,5	D M4x12 T15F	T15F	D14	\$522.72
16,0	75,0	D14.0016.75 HM	AFD1	9,5	15,0	145,0	6,5	D M4x12 T15F	T15F	D14	\$574.38

\* www.simtek.eu/webcode

\*\* www.simtek.eu/ccode

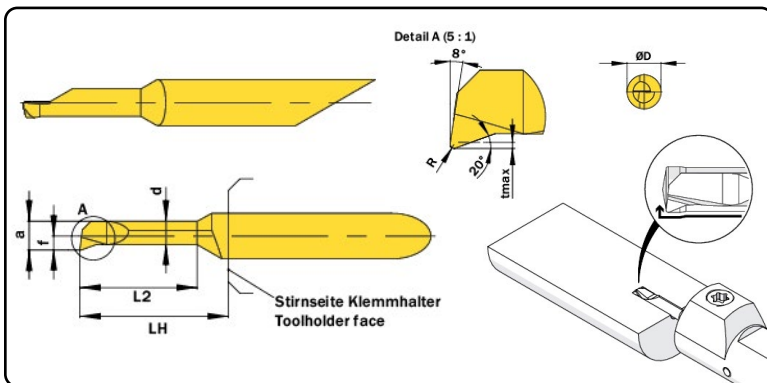


HOLDERS	Part Number	Description	Shank Size	L1	Connectcode ØDmm	PRICE
	282-AUQY	A04.0.750T	3/4"	4.330"	A04T / 4mm	\$199.62
	282-AUS8	A05.0.750T	3/4"	4.330"	A05T / 5mm	\$203.40
	282-AUTX	A05.1.000T	1"	4.330"	A05T / 5mm	\$214.56
	282-AUT6	A06.0.750T	3/4"	4.330"	A06 / 6mm	\$201.42
	282-AUUV	A06.1.000T	1"	4.330"	A06 / 6mm	\$214.56
	282-AUUY	A07.0.750T	3/4"	4.330"	A07 / 7mm	\$201.42
	282-AUVK	A07.1.000T	1"	4.330"	A07 / 7mm	\$214.56
	282-AUV5	A08.1.000T	1"	4.330"	A08T / 8mm	\$242.82

## A04 INSERTS

### X800 Series

Part Number	Description	L2 Length	Ø Dmin. Min. Bore	Radius	PRICE
282-AW9G	A04.1C04.04.10.05YR	4mm	1mm	0.05mm	\$53.19
282-AW9H	A04.1C04.06.10.05YR	6mm	1mm	0.05mm	\$55.08
282-AW3A	A04.1C05.04.12.10YR	5.1mm	1.2mm	0.1mm	\$47.25
282-AW3C	A04.1C05.07.12.10YR	7.1mm	1.2mm	0.1mm	\$50.58
282-AW3G	A04.1C06.06.14.10YR	6mm	1.4mm	0.1mm	\$43.56
282-AW3J	A04.1C06.10.14.10YR	10.2mm	1.4mm	0.1mm	\$45.27
282-AF0J	A04.1C07.06.17.10YR	6mm	1.7mm	0.1mm	\$42.84
282-ANYC	A04.1C07.09.17.10YR	9.1mm	1.7mm	0.1mm	\$43.92
282-AW3M	A04.1C08.09.19.10YR	9.1mm	1.9mm	0.1mm	\$41.76
282-AW3P	A04.1C08.12.19.10YR	12.2mm	1.9mm	0.1mm	\$46.35
282-ABCM	A04.1C10.06.22.10YR	6mm	2.2mm	0.1mm	\$42.84
282-ABD9	A04.1C10.09.22.10YR	9.1mm	2.2mm	0.1mm	\$44.10
282-AGGH	A04.1C10.13.22.10YR	13.2mm	2.2mm	0.1mm	\$45.18
282-AJ8J	A04.1C12.10.27.15YR	10.2mm	2.7mm	0.15mm	\$43.83
282-AB8C	A04.1C12.15.27.15YR	15.2mm	2.7mm	0.15mm	\$46.35
282-AW3S	A04.1C14.15.30.15YR	15.2mm	3mm	0.15mm	\$51.21
282-AHQ2	A04.1C14.20.30.15YR	20.3mm	3mm	0.15mm	\$54.27
282-AW9T	A04.1C14.25.30.05YR	25.4mm	3mm	0.05mm	\$63.45
282-AG17	A04.1C15.10.32.15YR	10.2mm	3.2mm	0.15mm	\$43.11
282-ABTG	A04.1C15.15.32.15YR	15.2mm	3.2mm	0.15mm	\$48.06
282-AAVU	A04.1C15.20.32.15YR	20.3mm	3.2mm	0.15mm	\$55.89
282-A2AD	A04.1C15.25.32.15YR	25.4mm	3.2mm	0.15mm	\$57.96
282-ANJF	A04.1C17.10.37.15YR	10.2mm	3.7mm	0.15mm	\$42.84
282-AHBD	A04.1C17.15.37.15YR	15.2mm	3.7mm	0.15mm	\$46.35
282-AB5S	A04.1C17.20.37.15YR	20.3mm	3.7mm	0.15mm	\$53.19
282-ANN5	A04.1C17.25.37.10YR	25.4mm	3.7mm	0.1mm	\$58.50
282-A2AE	A04.1C17.30.37.10YR	30.5mm	3.7mm	0.1mm	\$61.38
282-AEH9	A04.1820.10.42.15YR	10.2mm	4.2mm	0.15mm	\$39.78
282-AHDX	A04.1820.15.42.15YR	15.2mm	4.2mm	0.15mm	\$42.21
282-AM3K	A04.1820.20.42.15YR	20.3mm	4.2mm	0.15mm	\$47.88
282-AJT1	A04.1820.25.42.15YR	25.4mm	4.2mm	0.15mm	\$50.40
282-ASFY	A04.1820.30.42.05YR	30.5mm	4.2mm	0.05mm	\$58.59
282-A2AF	A04.1820.35.42.05YR	35.6mm	4.2mm	0.05mm	\$62.28



## A05 INSERTS

### X800 Series

Part Number	Description	L2 Length	Ø Dmin. Min. Bore	Radius	PRICE
282-AXJC	A05.1825.20.49.20YR	20.3mm	4.9mm	0.2mm	\$50.49
282-AXJF	A05.1825.25.49.20YR	25.4mm	4.9mm	0.2mm	\$57.51
282-AXJK	A05.1825.30.49.20YR	30.5mm	4.9mm	0.2mm	\$68.31
282-AXJN	A05.1825.35.49.20YR	35.6mm	4.9mm	0.2mm	\$72.90
282-AXJQ	A05.1825.40.40.20YR	40.6mm	4.9mm	0.2mm	\$81.90
282-AFCW	A05.1825.10.52.20YR	10.2mm	5.2mm	0.2mm	\$36.18
282-AF4Y	A05.1825.15.52.20YR	15.2mm	5.2mm	0.2mm	\$37.44
282-AM8M	A05.1825.20.52.20YR	20.3mm	5.2mm	0.2mm	\$44.19
282-AFSB	A05.1825.25.52.20YR	25.4mm	5.2mm	0.2mm	\$49.59
282-AFY1	A05.1825.30.52.20YR	30.5mm	5.2mm	0.2mm	\$55.89
282-AND4	A05.1825.35.52.20YR	35.6mm	5.2mm	0.2mm	\$62.91
282-AMQK	A05.1825.40.52.20YR	40.6mm	5.2mm	0.2mm	\$72.18

## A06 INSERTS

### X800 Series

Part Number	Description	L2 Length	Ø Dmin. Min. Bore	Radius	PRICE
282-AXH6	A06.1830.35.59.20YR	35.6mm	5.9mm	0.2mm	\$73.62
282-AXH8	A06.1830.40.59.20YR	40.6mm	5.9mm	0.2mm	\$84.15
282-A2AG	A06.1830.45.59.20YR	45.7mm	5.9mm	0.2mm	\$87.75
282-AG74	A06.1830.15.62.20YR	15.2mm	6.2mm	0.2mm	\$38.88
282-AHDQ	A06.1830.20.62.20YR	20.3mm	6.2mm	0.2mm	\$44.73
282-AMJG	A06.1830.25.62.20YR	25.4mm	6.2mm	0.2mm	\$51.48
282-AFDC	A06.1830.30.62.20YR	30.5mm	6.2mm	0.2mm	\$56.52
282-ABT1	A06.1830.35.62.20YR	35.6mm	6.2mm	0.2mm	\$63.54
282-AC3S	A06.1830.40.62.20YR	40.6mm	6.2mm	0.2mm	\$71.01
282-A2AH	A06.1830.50.62.20YR	50.8mm	6.2mm	0.2mm	\$79.38

## A07 INSERTS

### X800 Series

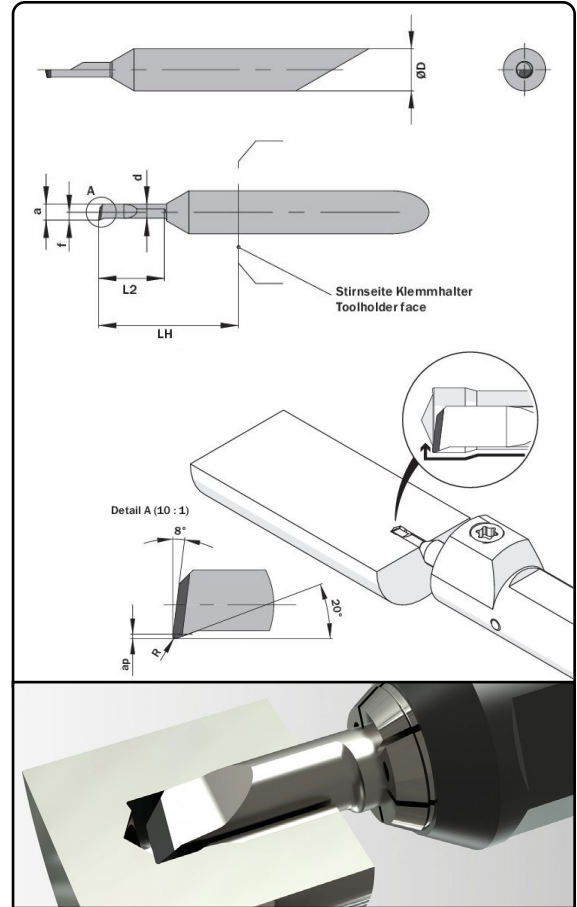
Part Number	Description	L2 Length	Ø Dmin. Min. Bore	Radius	PRICE
282-APJJ	A07.1835.25.72.20YR	25.4mm	7.2mm	0.2mm	\$55.17
282-AHXT	A07.1835.30.72.20YR	30.5mm	7.2mm	0.2mm	\$61.47
282-AMGJ	A07.1835.35.72.20YR	35.6mm	7.2mm	0.2mm	\$67.68
282-ABCQ	A07.1835.40.72.20YR	40.6mm	7.2mm	0.2mm	\$72.09
282-AMXA	A07.1835.45.72.20YR	45.7mm	7.2mm	0.2mm	\$80.28
282-AKWE	A07.1835.50.72.20YR	50.8mm	7.2mm	0.2mm	\$84.42
282-A2AJ	A07.1835.60.72.20YR	60.8mm	7.2mm	0.2mm	\$99.63

Very precise and strong tool system of solid carbide cutting insert and steel toolholders. High repeat accuracy from insert to insert and usable lengths up to 9xD! For best performance in bores as of Ø 0,3 mm (0.012").

**CBN TIPPED BORING INSERTS**

The **simturnAX** - boring inserts with SIMTEK CBN cutting grade for hard part turning applications are now also available for boring of bores starting with a minimum bore diameter of  $\varnothing D_{min} = 1.0$  mm. These tools are especially suitable for boring of bores in materials with HRC > 54, such as hardened steels. In combination with the **simturnAX** toolholders, excellent results are achieved even in materials that are difficult to machine.

Part Number	Description	L2 Length	$\varnothing$ Dmin. Min. Bore	Radius	Ap Max. mm	PRICE
282-AG1U	A04.1C07.06.17.10YUR	6mm	1.7mm	0.1mm	0.08	\$128.16
282-AHS2	A04.1810.09.22.10YUR	9.1mm	2.2mm	0.1mm	0.11	\$122.22
282-AKDS	A04.1812.10.27.15YUR	10.2mm	2.7mm	0.15mm	0.13	\$106.56
282-AWK9	A04.1812.15.27.15YUR	15.2mm	2.7mm	0.15mm	0.13	\$110.61
282-ADD4	A04.1815.10.32.15YUR	10.2mm	3.2mm	0.15mm	0.16	\$108.81
282-AQ5Q	A04.1815.20.32.15YUR	20.3mm	3.2mm	0.15mm	0.16	\$118.62
282-ABVW	A04.1817.15.37.15YUR	15.2mm	3.7mm	0.15mm	0.18	\$109.26
282-AH9U	A04.1820.10.42.15YUR	10.2mm	4.2mm	0.15mm	0.21	\$106.47
282-AHVV	A04.1820.20.42.15YUR	20.3mm	4.2mm	0.15mm	0.21	\$118.71
282-AKJE	A04.1820.25.42.15YUR	25.4mm	4.2mm	0.15mm	0.21	\$121.14
282-AD1K	A05.1825.15.52.20YUR	15.2mm	5.2mm	0.2mm	0.26	\$108.90
282-AA87	A05.1825.25.52.20YUR	25.4mm	5.2mm	0.2mm	0.26	\$123.93
282-AJBN	A05.1825.40.52.20YUR	40.6mm	5.2mm	0.2mm	0.26	\$146.52
282-ADEW	A06.1830.15.62.20YUR	15.2mm	6.2mm	0.2mm	0.31	\$109.08
282-ACXE	A06.1830.25.62.20YUR	25.4mm	6.2mm	0.2mm	0.31	\$125.01
282-AEJ9	A06.1830.30.62.20YUR	30.5mm	6.2mm	0.2mm	0.31	\$131.94
282-AJ2Z	A06.1830.40.62.20YUR	40.6mm	6.2mm	0.2mm	0.31	\$147.33
282-ABD2	A07.1835.25.72.20YUR	25.4mm	7.2mm	0.2mm	0.36	\$132.30
282-ADK7	A07.1835.35.72.20YUR	36.6mm	7.2mm	0.2mm	0.36	\$145.89
282-ADDS	A07.1835.50.72.20YUR	50.8mm	7.2mm	0.2mm	0.36	\$165.06

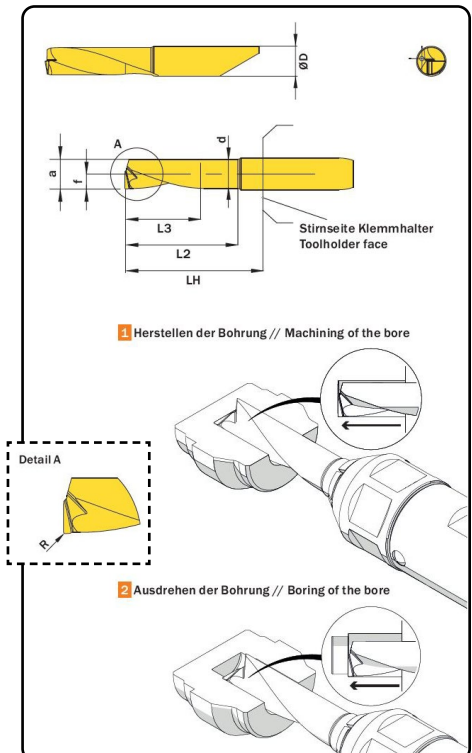


**DRILLING & BORING INSERTS**

Simtek's Drilling & Boring inserts allow you to eliminate drills from your operations. These bars can drill into solid material within the DCMIN and DCMAX ranges. You can then use the same tools to then bore out those holes to the required size. Alternatively, you can use them to flat bottom pre-drilled holes.

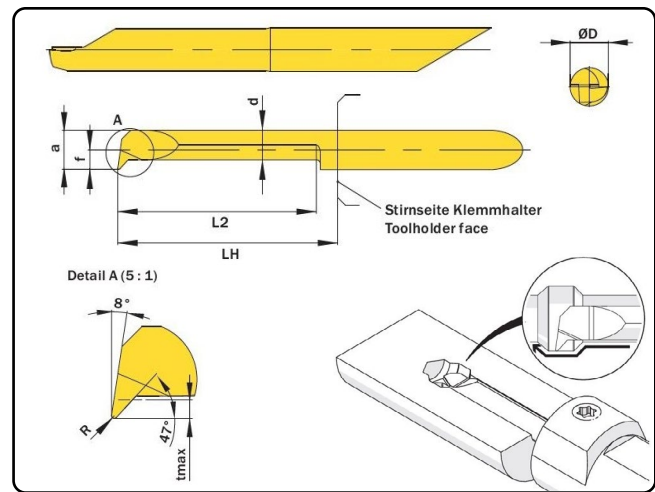
**X800 Series**

Part Number	Description	L2 Length	$\varnothing$ DC MIN	$\varnothing$ DC MAX	Max. Drilling Depth	Radius	$\varnothing$ D/ Connect Code	PRICE
282-A038	A04.DB19.15.40.20YR	15.2mm	3.7mm	4mm	10mm	0.2mm	4mm/A04T	\$106.83
282-A039	A04.DB19.20.40.20YR	20.3mm	3.7mm	4mm	15mm	0.2mm	4mm/A04T	\$109.89
282-A031	A05.DB25.15.50.20YR	15.2mm	4.7mm	5mm	10mm	0.2mm	5mm/A05T	\$109.08
282-A032	A05.DB25.20.50.20YR	20.3mm	4.7mm	5mm	15mm	0.2mm	5mm/A05T	\$113.85
282-A04K	A05.DB25.25.50.20YR	25.4mm	4.7mm	5mm	20mm	0.2mm	5mm/A05T	\$115.74
282-A033	A06.DB29.15.60.20YR	15.2mm	5.7mm	6mm	10mm	0.2mm	6mm/A06T	\$111.15
282-A034	A06.DB29.20.60.20YR	20.3mm	5.7mm	6mm	15mm	0.2mm	6mm/A06T	\$114.84
282-A04H	A06.DB29.25.60.20YR	25.4mm	5.7mm	6mm	20mm	0.2mm	6mm/A06T	\$117.90
282-A04J	A06.DB29.30.60.20YR	30.5mm	5.7mm	6mm	25mm	0.2mm	6mm/A06T	\$121.05
282-A035	A07.DB34.20.70.20YR	20.3mm	6.7mm	7mm	15mm	0.2mm	7mm/A07T	\$119.88
282-A036	A07.DB34.25.70.20YR	25.4mm	6.7mm	7mm	20mm	0.2mm	7mm/A07T	\$122.94
282-A037	A07.DB34.30.70.20YR	30.5mm	6.7mm	7mm	25mm	0.2mm	7mm/A07T	\$128.07
282-A06W	A08.DB39.20.80.20YR	20.3mm	7.7mm	8mm	15mm	0.2mm	8mm/A08T	\$122.40
282-A04F	A08.DB39.25.80.20YR	25.4mm	7.7mm	8mm	20mm	0.2mm	8mm/A08T	\$130.86
282-A04G	A08.DB39.30.80.20YR	30.5mm	7.7mm	8mm	25mm	0.2mm	8mm/A08T	\$133.83



Profiling bars for producing undercuts and thread reliefs.

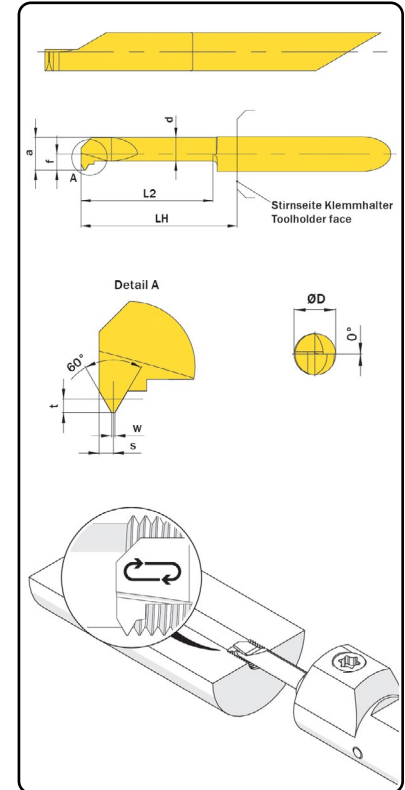
Part Number	Description	L2 Length	Ø Dmin. Bore	Radius	tmax	PRICE
282-AEJJ	A04.4710.10.22.10YR	10.2mm	2.2mm	0.1mm	0.4mm	\$41.40
282-ANTX	A04.4712.15.27.10YR	15.2mm	2.7mm	0.1mm	0.5mm	\$44.19
282-ADSB	A04.4715.15.32.10YR	15.2mm	3.2mm	0.1mm	0.6mm	\$44.28
282-AMFJ	A04.4720.20.42.15YR	20.3mm	4.2mm	0.15mm	0.8mm	\$41.31
282-AYD3	A05.4725.15.52.15YR	15.2mm	5.2mm	0.15mm	1.0mm	\$43.56
282-AEMF	A05.4725.25.52.15YR	25.4mm	5.2mm	0.15mm	1.0mm	\$47.43
282-AACY	A06.4730.20.62.15YR	20.3mm	6.2mm	0.15mm	1.8mm	\$43.56
282-AJ6F	A06.4730.30.62.15YR	30.5mm	6.2mm	0.15mm	1.8mm	\$53.82
282-AQ9E	A07.4735.40.72.20YR	40.6mm	7.2mm	0.2mm	2.5mm	\$80.64



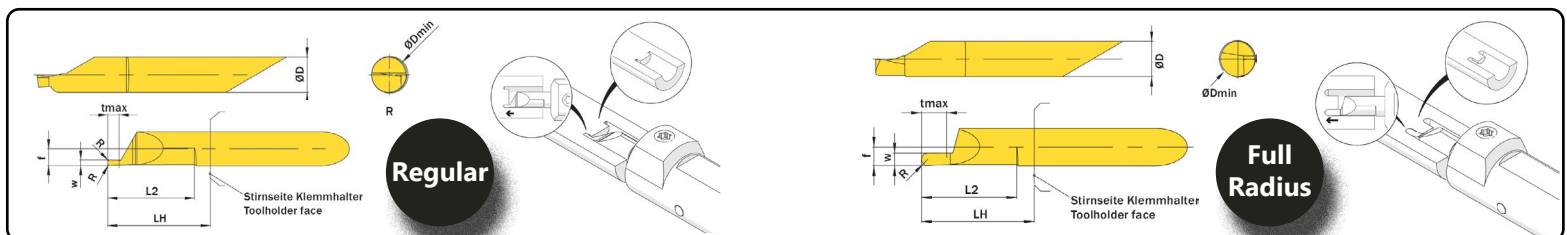
# SIMTEK PARTIAL PROFILE THREADING BARS

60° Partial profile threading bars for Metric and Unified threads.  
For threads as small as M2x0.4mm.

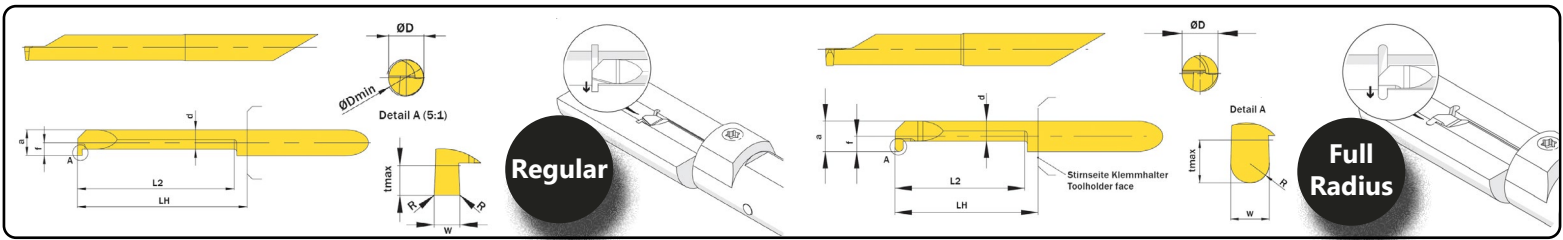
Part Number	Description	L2 Length	Pitch (From) mm	Pitch (To) mm	Pitch (From) TPI	Pitch (To) TPI	ØDmin. Min. Bore	ØD/ Connect Code	PRICE
282-AB5T	A04.M040.01.05.15MR	5.0mm	0.4	-	64	-	1.57mm	4mm/A04T	\$58.50
282-AH5G	A04.M045.01.06.17MR	6.0mm	0.45	-	56	-	1.71mm	4mm/A04T	\$58.23
282-ADAU	A04.M050.01.07.24MR	7.6mm	0.5	-	48	-	2.46mm	4mm/A04T	\$57.60
282-ABVG	A04.M070.01.10.32MR	10.2mm	0.7	-	36	-	3.24mm	4mm/A04T	\$58.05
282-A05G	A04.M070.01.15.32MR	15.2mm	0.7	-	36	-	3.24mm	4mm/A04T	\$62.19
282-AW95	A04.MT08.01.15.39MR	15.2mm	0.8	1.0	32	24	3.9mm	4mm/A04T	\$43.92
282-AD6S	A04.MT05.01.15.42MR	15.2mm	0.5	0.7	48	36	4.2mm	4mm/A04T	\$46.08
282-AJA0	A05.MT10.01.15.48MR	15.2mm	1.0	1.25	24	20	4.8mm	5mm/A05T	\$44.82
282-AC5K	A05.MT10.01.20.48MR	20.3mm	1.0	1.25	24	20	4.8mm	5mm/A05T	\$51.39
282-AH4D	A05.MT10.01.25.48MR	25.4mm	1.0	1.25	24	20	4.8mm	5mm/A05T	\$59.40
282-APGS	A05.MT07.01.15.51MR	15.2mm	0.75	1.0	32	24	5.1mm	5mm/A05T	\$44.82
282-AE44	A05.MT05.01.15.52MR	15.2mm	0.5	0.75	48	32	5.2mm	5mm/A05T	\$44.82
282-AAT9	A06.MT10.01.15.62MR	15.2mm	1.0	1.25	24	20	6.2mm	6mm/A06T	\$45.00
282-AG92	A06.MT12.01.15.62MR	15.2mm	1.25	1.5	20	18	6.2mm	6mm/A06T	\$45.90
282-ABDJ	A06.MT12.01.20.62MR	20.3mm	1.25	1.5	20	18	6.2mm	6mm/A06T	\$52.65
282-ABY1	A06.MT12.01.25.62MR	25.4mm	1.25	1.5	20	18	6.2mm	6mm/A06T	\$58.77
282-AHZW	A06.MT15.01.15.62MR	15.2mm	1.5	1.75	18	14	6.2mm	6mm/A06T	\$45.90
282-AACA	A06.MT15.01.25.62MR	25.4mm	1.5	1.75	18	14	6.2mm	6mm/A06T	\$58.77



# SIMTEK SQUARE ENDED & FULL RADIUS FACE-GROOVING INSERTS



Width mm +0.05	L2 Length mm	ØDmin. Min. Bore	Tmax mm	ØD/ Connect Code	Regular Grooving Inserts			Full Radius Grooving Inserts			
					Part Number	Description	PRICE	Part Number	Description	Radius	PRICE
1.0	15.2	6.2mm	2.0	5mm/A05T	282-AB01	A06.0100.15.01AGR	\$59.67	282-AE1C	A06.0100.15.01AVR	0.5mm	\$60.75
1.5/1.6	15.2	6.2mm	3.0	5mm/A05T	282-AMN7	A06.0150.15.01AGR	\$58.14	282-AJPQ	A06.0160.15.01AVR	0.8mm	\$61.56
2.0	15.2	6.2mm	4.0	5mm/A05T	282-AJ67	A06.0200.15.01AGR	\$58.14	282-AB30	A06.0200.15.01AVR	1.0mm	\$60.93
2.5	15.2	6.2mm	5.0	5mm/A05T	282-AHG4	A06.0250.15.01AGR	\$59.67	282-AAE4	A06.0250.15.01AVR	1.25mm	\$62.91
3.0	20.3	6.2mm	6.0	5mm/A05T	282-ABX0	A06.0300.15.01AGR	\$58.14	282-AF07	A06.0300.15.01AVR	1.5mm	\$61.65



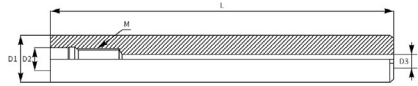
Width mm +0.03	L2 Length mm	ØDmin. Min. Bore	Tmax mm	ØD/ Connect Code	Regular Grooving Inserts			Full Radius Grooving Inserts					
					Part Number	Description	PRICE	Part Number	Description	Radius	PRICE		
0.5	9.1	2.0mm	0.4	4mm/A04T	282-AG6V	A04.C050.09.20GR	\$50.58						
0.7	12.2	3.0mm	0.6	4mm/A04T	282-ACKP	A04.C070.12.30GR	\$52.02						
0.79	15.2	4.2mm	0.8	4mm/A04T	282-AJGY	A04.0078.15.42GR	\$48.42						
1.0	15.2	4.2mm	0.8	4mm/A04T	282-AAQT	A04.0100.15.42GR	\$46.53	282-AC9G	A04.0100.15.42VR	0.5mm	\$49.23		
1.17	15.2	4.2mm	0.8	4mm/A04T				282-AG4M	A04.0117.15.42VR	0.585mm	\$48.60		
0.79	20.3	5.2mm	1.0	5mm/A05T	282-ANXZ	A05.0078.20.52GR	\$52.02						
1.0	20.3	5.2mm	1.0	5mm/A05T	282-AAXA	A05.0100.20.52GR	\$51.21	282-AHPY	A05.0100.20.52VR	0.5mm	\$49.86		
1.17	20.3	5.2mm	1.0	5mm/A05T	282-AF9G	A05.0117.20.52GR	\$50.22	282-AGGW	A05.0117.20.52VR	0.585mm	\$51.66		
1.5	20.3	5.2mm	1.0	5mm/A05T	282-AH57	A05.0150.20.52GR	\$53.28	282-AA2S	A05.0150.20.52VR	0.75mm	\$51.30		
1.574	20.3	5.2mm	1.0	5mm/A05T	282-AE6P	A05.0157.20.52GR	\$50.31	282-AM8X	A05.0157.20.52VR	0.787mm	\$51.75		
1.626	20.3	5.2mm	1.0	5mm/A05T				282-AT8E	A05.0163.20.52VR	0.813mm	\$51.75		
1.98	20.3	5.2mm	1.0	5mm/A05T	282-ACFG	A05.0198.20.52GR	\$53.46	282-AT8G	A05.0198.20.52VR	0.99mm	\$48.78		
2.0	20.3	5.2mm	1.0	5mm/A05T	282-AHTZ	A05.0200.20.52GR	\$50.22	282-AK1U	A05.0200.20.52VR	1.0mm	\$50.85		
1.0	25.4	6.2mm	1.8	6mm/A06T	282-AJXT	A06.0100.25.62GR	\$57.24	282-AKUZ	A06.0100.25.62VR	0.5mm	\$56.61		
1.17	25.4	6.2mm	1.8	6mm/A06T	282-AC61	A06.0117.25.62GR	\$52.65	282-AKMZ	A06.0117.25.62VR	0.585mm	\$50.04		
1.5	25.4	6.2mm	1.8	6mm/A06T	282-AFHV	A06.0150.25.62GR	\$57.24	282-AD22	A06.0150.25.62VR	0.75mm	\$57.96		
1.574	25.4	6.2mm	1.8	6mm/A06T	282-AJFE	A06.0157.25.62GR	\$60.84	282-APSG	A06.0157.25.62VR	0.787mm	\$52.47		
1.626	25.4	6.2mm	1.8	6mm/A06T				282-AT8J	A06.0163.25.62VR	0.813mm	\$45.09		
1.98	25.4	6.2mm	1.8	6mm/A06T	282-AJAX	A06.0198.25.62GR	\$54.72	282-AT8M	A06.0198.25.62VR	0.99mm	\$46.80		
2.0	20.3	6.2mm	1.8	6mm/A06T	282-AB0S	A06.0200.20.62GR	\$51.39	282-AMVK	A06.0200.20.62VR	1.0mm	\$58.23		
2.0	25.4	6.2mm	1.8	6mm/A06T	282-APT6	A06.0200.25.62GR	\$58.23	282-AH3S	A06.0200.25.62VR	1.0mm	\$58.68		
1.0	30.5	7.2mm	2.5	7mm/A07T	282-AA78	A07.0100.30.72GR	\$66.78	282-AMUA	A07.0100.30.72VR	0.5mm	\$68.49		
1.17	30.5	7.2mm	2.5	7mm/A07T	282-AKKW	A07.0117.30.72GR	\$69.66	282-ABU4	A07.0117.30.72VR	0.585mm	\$70.11		
1.5	30.5	7.2mm	2.5	7mm/A07T	282-ACNN	A07.0150.30.72GR	\$66.60	282-AJX4	A07.0150.30.72VR	0.75mm	\$69.21		
1.574	30.5	7.2mm	2.5	7mm/A07T	282-ABPX	A07.0157.30.72GR	\$68.85	282-AG9X	A07.0157.30.72VR	0.787mm	\$70.92		
1.98	30.5	7.2mm	2.5	7mm/A07T	282-AJQG	A07.0198.30.72GR	\$68.85	282-AT8S	A07.0198.30.72VR	0.99mm	\$70.92		
2.0	30.5	7.2mm	2.5	7mm/A07T	282-AHQQ	A07.0200.30.72GR	\$66.60	282-ACTT	A07.0200.30.72VR	1.0mm	\$68.22		

CCMT Non-Coolant Boring Bars	Caliber EDP#	Description	Shank Ø	Length	Kit Price
	329-IS05KSCLCR2B	IS05K-SCLCR-2-B	5/16"	5"	\$122.00
	c/w 10pcs 336-CCMT-060204-MK-CP6025 Positive Turning Insert				
	329-IS06KSCLCR2B	IS06K-SCLCR-2-B	3/8"	5"	\$126.00
	c/w 10pcs 336-CCMT-060204-MK-CP6025 Positive Turning Insert				
	329-IS08MSCLCR2	IS08M-SCLCR-2	1/2"	6"	\$132.00
	c/w 10pcs 336-CCMT-060204-MK-CP6025 Positive Turning Insert				
	329-IS08MSCLCR3	IS08M-SCLCR-3	1/2"	6"	\$135.00
	c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert				
	329-IS10QSCLCR3B	IS10Q-SCLCR-3B	5/8"	7"	\$146.00
c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert					
329-IS12RSCLCR3	IS12R-SCLCR-3	3/4"	8"	\$153.00	
c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert					
329-IS16RSCLCR3	IS16R-SCLCR-3	1"	8"	\$165.00	
c/w 10pcs 336-CCMT-09T304-MK-CP6025 Positive Turning Insert					



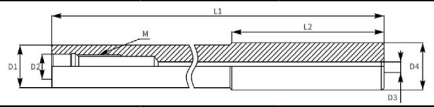
**For Steel Application**

# METRIC Carbide Screw-on Shanks - Straight



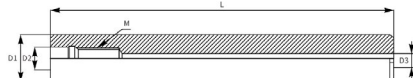
EDP Number	Description	Thread	Length	Shank	Price
317-500-107	CSS10-M06-75	M6	75mm	10mm	\$140.51
317-500-108	CSS10-M06-100	M6	100mm	10mm	\$134.72
317-500-109	CSS10-M06-125	M6	125mm	10mm	\$175.36
317-500-110	CSS10-M06-150	M6	150mm	10mm	\$168.38
317-500-111	CSS12-M06-75	M6	75mm	12mm	\$142.85
317-500-112	CSS12-M06-100	M6	100mm	12mm	\$137.02
317-500-113	CSS12-M06-125	M6	125mm	12mm	\$206.72
317-500-114	CSS12-M06-150	M6	150mm	12mm	\$199.74
317-500-115	CSS16-M08-100	M8	100mm	16mm	\$236.90
317-500-116	CSS16-M08-150	M8	150mm	16mm	\$272.90
317-500-117	CSS16-M08-200	M8	200mm	16mm	\$362.34
317-500-118	CSS20-M10-150	M10	150mm	20mm	\$425.02
317-500-119	CSS20-M10-200	M10	200mm	20mm	\$550.46
317-500-120	CSS20-M10-250	M10	250mm	20mm	\$650.34
317-500-121	CSS25-M12-150	M12	150mm	25mm	\$587.62
317-500-122	CSS25-M12-200	M12	200mm	25mm	\$760.64
317-500-123	CSS25-M12-250	M12	250mm	25mm	\$902.34
317-500-124	CSS25-M12-300	M12	300mm	25mm	\$1,075.36
317-500-125	CSS32-M16-200	M16	200mm	32mm	\$1,085.79
317-500-126	CSS32-M16-250	M16	250mm	32mm	\$1,400.51
317-500-127	CSS32-M16-300	M16	300mm	32mm	\$1,652.51
317-500-128	CSS32-M16-350	M16	350mm	32mm	\$2,129.79
317-500-129	CSS32-M16-400	M16	400mm	32mm	\$2,435.23

# METRIC Carbide Screw-on Shanks - Necked



EDP Number	Description	Thread	Length	L2 Length	Shank	Price
317-501-107	CSN10-M06-A25-75	M6	75mm	50mm	10mm	\$157.92
317-501-108	CSN10-M06-A50-100	M6	100mm	50mm	10mm	\$157.92
317-501-109	CSN10-M06-A75-125	M6	125mm	50mm	10mm	\$198.59
317-501-110	CSN10-M06-A100-150	M6	150mm	50mm	10mm	\$198.59
317-501-111	CSN12-M06-A25-75	M6	75mm	50mm	12mm	\$160.26
317-501-112	CSN12-M06-A50-100	M6	100mm	50mm	12mm	\$160.26
317-501-113	CSN12-M06-A75-125	M6	125mm	50mm	12mm	\$228.77
317-501-114	CSN12-M06-A100-150	M6	150mm	50mm	12mm	\$231.10
317-501-115	CSN16-M08-A45-100	M8	100mm	55mm	16mm	\$258.98
317-501-116	CSN16-M08-A95-150	M8	150mm	55mm	16mm	\$304.26
317-501-117	CSN16-M08-A145-200	M8	200mm	55mm	16mm	\$401.79
317-501-118	CSN20-M10-A90-150	M10	150mm	60mm	20mm	\$456.38
317-501-119	CSN20-M10-A140-200	M10	200mm	60mm	20mm	\$596.90
317-501-120	CSN20-M10-A190-250	M10	250mm	60mm	20mm	\$704.90
317-501-121	CSN25-M12-A90-150	M12	150mm	60mm	25mm	\$618.98
317-501-122	CSN25-M12-A140-200	M12	200mm	60mm	25mm	\$807.10
317-501-123	CSN25-M12-A190-250	M12	250mm	60mm	25mm	\$965.02
317-501-124	CSN25-M12-A240-300	M12	300mm	60mm	25mm	\$1,191.49
317-501-125	CSN32-M16-A135-200	M16	200mm	65mm	32mm	\$1,178.72
317-501-126	CSN32-M16-A185-250	M16	250mm	65mm	32mm	\$1,516.64
317-501-127	CSN32-M16-A235-300	M16	300mm	65mm	32mm	\$1,775.62
317-501-128	CSN32-M16-A285-350	M16	350mm	65mm	32mm	\$2,261.02
317-501-129	CSN32-M16-A335-400	M16	400mm	65mm	32mm	\$2,573.41

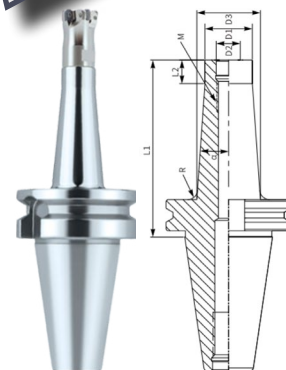
# Fractional Carbide Screw-on Shanks - Straight



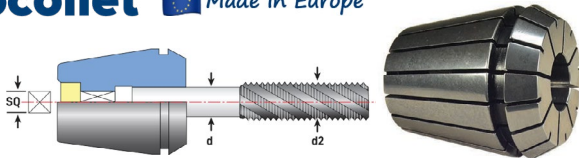
EDP Number	Description	Thread	Length	Shank	Price
336-06204080	ICSS2A06204080	M8	4.00"	0.625"	<b>\$279.00</b>
336-06206080	ICSS2A06206080	M8	6.00"	0.625"	<b>\$389.00</b>
336-07504100	ICSS2A07504100	M10	4.00"	0.750"	<b>\$509.00</b>
336-07506100	ICSS2A07506100	M10	6.00"	0.750"	<b>\$669.00</b>
336-10004120	ICSS2A10004120	M12	4.00"	1.000"	<b>POA</b>
336-10006120	ICSS2A10006120	M12	6.00"	1.000"	<b>POA</b>
336-12506160	ICSS2A12506160	M16	6.00"	1.250"	<b>POA</b>

## Screw-on Arbors - BT40 & CAT40

EDP Number	Description	Thread	L1 Length	D1 Ø	D3 Ø	Price
417-BT40M0860	BT40-SO-M08-60 THREADED (ARBOR-TAPERED)	M8	60mm	15.4mm	19mm	<b>\$149.00</b>
417-BT40M0890	BT40-SO-M08-90 THREADED (ARBOR-TAPERED)	M8	90mm	15.4mm	24mm	<b>\$149.00</b>
417-BT40M08120	BT40-SO-M08-120 THREADED (ARBOR-TAPERED)	M8	120mm	15.4mm	30mm	<b>\$179.00</b>
417-CAT40M0890	CAT40-SO-M08-90 THREADED (ARBOR-TAPERED)	M8	90mm	15.4mm	30mm	<b>\$149.00</b>
417-CAT40M1090	CAT40-SO-M10-90 THREADED (ARBOR-TAPERED)	M10	90mm	19mm	30mm	<b>\$149.00</b>
417-CAT40M10135	CAT40-SO-M10-135 THREADED (ARBOR-TAPERED)	M10	135mm	19mm	36mm	<b>\$179.00</b>
417-CAT40M1290	CAT40-SO-M12-90 THREADED (ARBOR-TAPERED)	M12	90mm	24mm	29mm	<b>\$149.00</b>
417-CAT40M12135	CAT40-SO-M12-135 THREADED (ARBOR-TAPERED)	M12	135mm	24mm	39mm	<b>\$179.00</b>
417-CAT40M1690	CAT40-SO-M16-90 THREADED (ARBOR-TAPERED)	M16	90mm	29mm	35mm	<b>\$149.00</b>
417-CAT40M16135	CAT40-SO-M16-135 THREADED (ARBOR-TAPERED)	M16	135mm	29mm	41mm	<b>\$179.00</b>



**INCH SIZED  
TAPPING  
ER COLLETS**



ERT16 (INCH SIZED)		D=16,5mm / L=27,5mm		
CODE	d1 mm (inch)	Square size ■ mm (inch)	Tap Specs	PRICE
240-ERT16IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	<b>\$39.17</b>
240-ERT16IN0427	4,27 (0.168")	3,33 (0.131")	#8	<b>\$39.17</b>
240-ERT16IN0493	4,93 (0.194")	3,86 (0.152")	#10	<b>\$39.17</b>
240-ERT16IN0559	5,59 (0.220")	4,12 (0.162")	#12	<b>\$39.17</b>
240-ERT16IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	<b>\$39.17</b>
240-ERT16IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	<b>\$39.17</b>

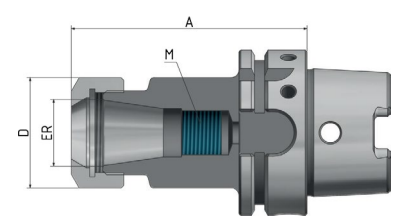
ERT25 (INCH SIZED)		D=25,5mm / L=34mm		
CODE	d1 mm (inch)	Square size ■ mm (inch)	Tap Specs	PRICE
240-ERT25IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	<b>\$41.00</b>
240-ERT25IN0427	4,27 (0.168")	3,33 (0.131")	#8	<b>\$41.00</b>
240-ERT25IN0493	4,93 (0.194")	3,86 (0.152")	#10	<b>\$41.00</b>
240-ERT25IN0559	5,59 (0.220")	4,12 (0.162")	#12	<b>\$41.00</b>
240-ERT25IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	<b>\$41.00</b>
240-ERT25IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	<b>\$41.00</b>
240-ERT25IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	<b>\$41.00</b>
240-ERT25IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	<b>\$41.00</b>
240-ERT25IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	<b>\$41.00</b>
240-ERT25IN1090	10,90 (0.429")	8,18 (0.322")	9/16"	<b>\$41.00</b>
240-ERT25IN1219	12,19 (0.480")	9,14 (0.360")	5/8"	<b>\$41.00</b>
240-ERT25IN0793	7,93 (0.312")	5,94 (0.234")	1/8" pipe ss	<b>\$41.00</b>
240-ERT25IN1113	11,13 (0.438")	8,33 (0.328")	1/8" pipe ls	<b>\$41.00</b>

ERT20 (INCH SIZED)		D=20,5mm / L=31,5mm		
CODE	d1 mm (inch)	Square size ■ mm (inch)	Tap Specs	PRICE
240-ERT20IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	<b>\$39.78</b>
240-ERT20IN0427	4,27 (0.168")	3,33 (0.131")	#8	<b>\$39.78</b>
240-ERT20IN0493	4,93 (0.194")	3,86 (0.152")	#10	<b>\$39.78</b>
240-ERT20IN0559	5,59 (0.220")	4,12 (0.162")	#12	<b>\$39.78</b>
240-ERT20IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	<b>\$39.78</b>
240-ERT20IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	<b>\$39.78</b>
240-ERT20IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	<b>\$39.78</b>
240-ERT20IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	<b>\$39.78</b>
240-ERT20IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	<b>\$39.78</b>

ERT32 (INCH SIZED)		D=32,5mm / L=40mm		
CODE	d1 mm (inch)	Square size ■ mm (inch)	Tap Specs	PRICE
240-ERT32IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	<b>\$44.37</b>
240-ERT32IN0427	4,27 (0.168")	3,33 (0.131")	#8	<b>\$44.37</b>
240-ERT32IN0493	4,93 (0.194")	3,86 (0.152")	#10	<b>\$44.37</b>
240-ERT32IN0559	5,59 (0.220")	4,12 (0.162")	#12	<b>\$44.37</b>
240-ERT32IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	<b>\$44.37</b>
240-ERT32IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	<b>\$44.37</b>
240-ERT32IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	<b>\$44.37</b>
240-ERT32IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	<b>\$44.37</b>
240-ERT32IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	<b>\$44.37</b>
240-ERT32IN1090	10,90 (0.429")	8,18 (0.322")	9/16"	<b>\$44.37</b>
240-ERT32IN1219	12,19 (0.480")	9,14 (0.360")	5/8"	<b>\$44.37</b>
240-ERT32IN1499	14,99 (0.590")	11,23 (0.447")	3/4"	<b>\$44.37</b>
240-ERT32IN0793	7,93 (0.312")	5,94 (0.234")	1/8" pipe ss	<b>\$44.37</b>
240-ERT32IN1113	11,13 (0.438")	8,33 (0.328")	1/8" pipe ls	<b>\$44.37</b>
240-ERT32IN1428	14,28 (0.562")	10,69 (0.421")	1/4" pipe	<b>\$44.37</b>

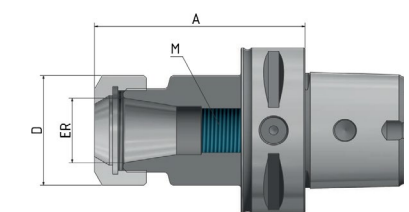
Order No.	HSK	ER	D	A	Clamping Range	M	Version	Price
271-606302-006	63	11	19	75	1-7	-	Extra short	\$283.14
271-606302-001	63	16	28	75	1-10	-	Extra short	\$255.42
271-606302-002	63	25	42	75	1-16	-	Extra short	\$261.36
271-606302-003	63	32	50	75	2-20	-	Extra short	\$273.24
271-606302-004	63	40	63	85	4-26	-	Extra short	\$298.98
271-606302-01	63	16	28	100	1-10	M11x1	Short	\$259.38
271-606302-07	63	20	34	100	1-13	M14x1	Short	\$273.24
271-606302-02	63	25	42	100	1-16	M18x1,5	Short	\$273.24
271-606302-03	63	32	50	100	2-20	M24x1,5	Short	\$275.22
271-606302-04	63	40	63	120	4-26	M28x1,5	Short	\$308.88
271-606302-32	63	16	28	130	1-10	M11x1	Long	\$283.14
271-606302-34	63	25	42	130	1-16	M18x1,5	Long	\$302.94
271-606302-35	63	32	50	130	2-20	M24x1,5	Long	\$314.82
271-606302-36	63	40	63	130	4-26	M28x1,5	Long	\$342.54
271-606302-011	63	16	28	160	1-10	M11x1	Extra long	\$289.08
271-606302-021	63	25	42	160	1-16	M18x1,5	Extra long	\$310.86
271-606302-031	63	32	50	160	2-20	M24x1,5	Extra long	\$350.46
271-606302-041	63	40	63	160	4-26	M28x1,5	Extra long	\$386.10
271-606302-012	63	16	28	200	1-10	M11x1	Extra long	\$479.52
271-606302-022	63	25	42	200	1-16	M18x1,5	Extra long	\$486.00
271-606302-032	63	32	50	200	2-20	M24x1,5	Extra long	\$524.88

**HSK-A 63**  
Fig. shows A=130  
Includes clamping nut



Order No.	C	ER	A	D	Clamping Range	M	Version	Price
271-306302-01	6	16	60	28	1-10	-	Short	\$442.80
271-306302-02	6	25	60	42	1-16	-	Short	\$442.80
271-306302-03	6	32	60	50	2-20	-	Short	\$449.28
271-306302-04	6	40	65	63	4-26	-	Short	\$468.72
271-306302-31	6	16	100	28	1-10	M11x1	Long	\$527.04
271-306302-32	6	25	100	42	1-16	M18x1,5	Long	\$527.04
271-306302-33	6	32	100	50	2-20	M24x1,5	Long	\$527.04
271-306302-34	6	40	100	63	4-26	M28x1,5	Long	\$561.60
271-306302-52	6	25	130	42	1-16	M18x1,5	Long	\$570.24
271-306302-53	6	32	130	50	2-20	M24x1,5	Long	\$570.24
271-306302-61	6	16	160	28	1-10	M11x1	Extra long	\$685.44
271-306302-62	6	25	160	42	1-16	M18x1,5	Extra long	\$685.44
271-306302-63	6	32	160	50	2-20	M24x1,5	Extra long	\$723.24

**CORUM C6, C8**  
Fig. shows A=160



Order No.	C	ER	A	D	Clamping Range	M	Version	Price
271-308002-01	8	16	65	28	1-10	-	Short	\$798.84
271-308002-02	8	25	70	42	1-16	-	Short	\$798.84
271-308002-03	8	32	70	50	2-20	-	Short	\$811.44
271-308002-04	8	40	70	63	4-26	-	Short	\$826.56

**Chum Power**  
CHUMPOWER MACHINERY CORP.

**Made in Taiwan**

- High clamping force 400-700KGf/cm.
- Suitable for high speed running
- Can hold drills, taps and end mills due to high clamping force
- Includes hex key wrench

**HEX KEY DRILL CHUCKS**

Order Number	Description	Clamping Range	Price
331-CT40223202A	CAT40XGHK13S-90L	0,3-13MM	\$299
331-CT40224202A	CAT40XGHK16S-95L	1,5-16MM	\$329
331-CT50224202A	CAT50XGHK16S-95L	1,5-16MM	\$349
331-HK22526	HSK63AXGHK13S-105	0,3-13MM	\$369
331-HK22528	HSK63AXGHK16S-110	1,5-16MM	\$389
331-BT22518	BT40XGHK13S-98L	0,3-13MM	\$299





### TORQUE Control Adapters

The best solution for protecting your taps and work pieces from tap breakage. The prime application for torque control adapters is Blind Hole Tapping and where Chip Evacuation is a concern.



### RIGID Control Adapters

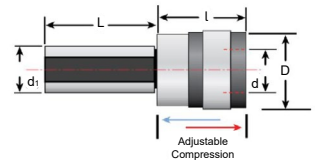
The best suited for through holes and in applications where tap breakage is not a concern.



Tap Size			RIGID Control Adapters				TORQUE Control Adapters			
ANSI	ISO	STI	Size 1		Size 2		Size 1		Size 2	
			Order #	PRICE	Order #	PRICE	Order #	PRICE	Order #	PRICE
#0-6	M1.6-M3.5	2,3,4	117-19/11-4036	\$44.00			117-19/1-4036	\$109.00		
# 8	M4	5	117-19/11-4041	\$44.00			117-19/1-4041	\$109.00		
# 10	M5	6	117-19/11-4048	\$44.00			117-19/1-4048	\$109.00		
# 12		8	117-19/11-4054	\$44.00			117-19/1-4054	\$109.00		
1/4	M6	10	117-19/11-4063	\$44.00			117-19/1-4063	\$109.00		
5/16	M8	12, 1/4	117-19/11-4079	\$44.00	117-31/12-4079	\$56.00	117-19/1-4079	\$109.00	117-31/2-4079	\$140.00
3/8	M10	5/16	117-19/11-4095	\$44.00	117-31/12-4095	\$56.00	117-19/1-4095	\$109.00	117-31/2-4095	\$140.00
7/16	M11		117-19/11-4111	\$44.00	117-31/12-4111	\$56.00	117-19/1-4111	\$109.00	117-31/2-4111	\$140.00
1/2	M12	3/8	117-19/11-4127	\$44.00	117-31/12-4127	\$56.00	117-19/1-4127	\$109.00	117-31/2-4127	\$140.00
9/16	M14	7/16	117-19/11-4142	\$44.00	117-31/12-4142	\$56.00	117-19/1-4142	\$109.00	117-31/2-4142	\$140.00
5/8	M16	1/2			117-31/12-4158	\$56.00			117-31/2-4158	\$140.00
11/16	M18	9/16			117-31/12-4174	\$56.00			117-31/2-4174	\$140.00
3/4					117-31/12-4190C	\$56.00			117-31/2-4190	\$140.00
13/16	M20				117-31/12-4206C	\$56.00			117-31/2-4206	\$140.00
7/8	M22	3/4			117-31/12-4222C	\$56.00			117-31/2-4222	\$140.00
1/8 NPT			117-19/11-4097	\$44.00			117-19/1-4097	\$109.00		
1/4 NPT					117-31/12-4131C	\$56.00			117-31/2-4131C	\$140.00
3/8 NPT					117-31/12-4166C	\$56.00			117-31/2-4166C	\$140.00
1/2 NPT					117-31/12-4209C	\$56.00			117-31/2-4209C	\$140.00



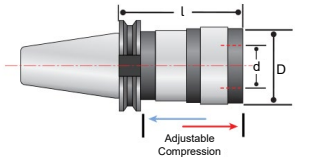
### TENSION & COMPRESSION TAPPING CHUCKS



Order #	Description	D1	D	l	L	Tap Capacity	Compensation		PRICE
							Tension	Compression	
117-32400/INC1	1" Shank T/C Holder Size 1	1.00"	1.5"	1.76"	1.95"	0 - 9/16"	0.35"	0.35"	\$319.00
117-32600/INC1	1" Shank T/C Holder Size 2	1.00"	2.17"	2.52"	2.00"	5/16 - 7/8"	0.59"	0.59"	\$380.00
117-32600/INC1-1/2	1-1/2" Shank T/C Holder Size 2	1.50"	2.17"	2.52"	3.50"	5/16 - 7/8"	0.59"	0.59"	\$413.00



### CAT TENSION/COMPRESSION TAP HOLDERS



Order #	Description	d	D	l	Size	Tap Capacity	Compensation		PRICE
							Tension	Compression	
117-32400/40CAT	CAT40 T/C Holder, Size 1	0.748"	1.5"	2.36"	1	0 - 9/16"	0.35"	0.35"	\$376.00
117-32400/50CAT	CAT50 T/C Holder, Size 1	0.748"	1.5"	2.44"	1	0 - 9/16"	0.35"	0.35"	\$501.00
117-32600/40CAT	CAT40 T/C Holder, Size 2	1.220"	2.17"	3.94"	2	5/16 - 7/8"	0.59"	0.59"	\$425.00
117-32600/50CAT	CAT50 T/C Holder, Size 2	1.220"	2.17"	3.27"	2	5/16 - 7/8"	0.59"	0.59"	\$553.00

Includes **BEST SELLING** extended length ER8 collet extension **150mm (6")** overall length.  
Features 12mm (0.472") nose and shank diameter.  
Clamping range 0,5-5mm (0.020-0.199")!

### ER8 Kits (Includes Extension, 9 piece boxed collet set & wrench)

Part Number	Shank Diameter	Nose Diameter	Overall Length	PRICE
240-KITER8SET2-08	8mm (0.315")	12mm (0.472")	85mm (3.35")	<b>\$199.00</b>
240-KITER8SET2-10	10mm (0.394")	12mm (0.472")	95mm (3.75")	<b>\$199.00</b>
240-KITER8SET2-12	12mm (0.472")	12mm (0.472")	95mm (3.75")	<b>\$199.00</b>
240-KITER8SET2-12L	12mm (0.472")	12mm (0.472")	140mm (5.51")	<b>\$229.00</b>
240-KITER8SET2-12XL	12mm (0.472")	12mm (0.472")	150mm (5.90")	<b>\$249.00</b>



### ER8 Collet Sets (9 piece sets in box)

Part Number	Accuracy	PRICE
240-ER08SET2	ER8 Class 2 Collets max. .0006-.0008" T.I.R.	<b>\$190.33</b>
240-ER08SETT	ER8 TOPAC Collets max. .0002" T.I.R.	<b>\$309.06</b>

### ER8 Extensions

Part Number	Shank Diameter	Nose Diameter	Overall Length	PRICE
240-ER0808085M	8mm (0.315")	12mm (0.472")	85mm (3.35")	<b>\$76.50</b>
240-ER0810095M	10mm (0.394")	12mm (0.472")	95mm (3.75")	<b>\$76.50</b>
240-ER0812095M	12mm (0.472")	12mm (0.472")	95mm (3.75")	<b>\$76.50</b>
240-ER0812150MXL	12mm (0.472")	12mm (0.472")	150mm (5.90")	<b>\$149.00</b>



 Eurocollet

### Metric ER Collet Sets

Order Number	Description	Clamping Range	No. Of Collets	PRICE
240-ER11SET2	ER11 Metric Collet Set	1-7mm	13 pcs.	<b>\$229.81</b>
240-ER16SET2	ER16 Metric Collet Set	1-10mm	10 pcs.	<b>\$135.86</b>
240-ER20SET2	ER20 Metric Collet Set	2-13mm	12 pcs.	<b>\$170.44</b>
240-ER25SET2	ER25 Metric Collet Set	2-16mm	15 pcs.	<b>\$233.48</b>
240-ER32SET2	ER32 Metric Collet Set	3-20mm	18 pcs.	<b>\$283.97</b>
240-ER40SET2	ER40 Metric Collet Set	4-26mm	23 pcs.	<b>\$469.40</b>



 Eurocollet

### CAT 40 Collet Chucks

Order Number	Description	L Gauge Length	D Nut Diameter	PRICE
240-CAT40ER16060	ER16 CAT40 Collet Chuck - Short	60mm	28mm	<b>\$79.00</b>
240-CAT40ER16100	ER16 CAT40 Collet Chuck 100mm	100mm	28mm	<b>\$85.00</b>
240-CAT40ER32070	ER32 CAT40 Collet Chuck - Short	70mm	50mm	<b>\$79.00</b>
240-CAT40ER32100	ER32 CAT40 Collet Chuck 100mm	100mm	50mm	<b>\$85.00</b>



 Eurocollet

### Inch ER Collet Sets

Order Number	Description	Clamping Range	No. Of Collets	PRICE
240-ER16SETIN2	ER16 Inch Collet Set	1/16"-3/8"	10 pcs.	<b>\$145.04</b>
240-ER20SETIN2	ER20 Inch Collet Set	1/16"-1/2"	12 pcs.	<b>\$188.50</b>
240-ER25SETIN2	ER25 Inch Collet Set	1/16"-5/8"	15 pcs.	<b>\$257.35</b>
240-ER32SETIN2	ER32 Inch Collet Set	1/8"-3/4"	18 pcs.	<b>\$300.49</b>
240-ER40SETIN2	ER40 Inch Collet Set	1/8"-1"	23 pcs.	<b>\$504.90</b>