

simturnAX

The first choice for micro-machining with high precision & performance.

Simturn AX combines high precision and versatility without compromise. With inserts available for boring, profiling, grooving, threading, chamfering and face grooving, the system has the widest choice of tools in the market.

Inserts feature a 45° angle ground wedge for fast and accurate location in the Simturn AX holder, with the cutting edge positioned perfectly without the need for adjustment.

The system is completed with a range of high performance holders from standard sleeves to specifically designed holders for different machine tools such as sliding head lathes or multitasking mill-turn machines.

PRECISE INTERNAL MACHINING FROM Ø0.3mm

MAIN APPLICATIONS



Boring

- ▶ From Ø0.3mm bores
- ▶ Standard & back boring



Grooving

- ▶ From Ø2mm bores
- ▶ Square or full radius



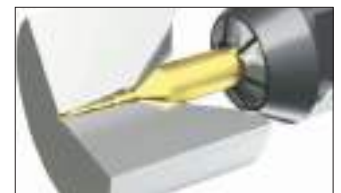
Thread Turning

- ▶ From M1.6
- ▶ Metric, UN and BSW



Face Grooving

- ▶ From 0.8mm wide
- ▶ Face grooving in bores or external face grooves

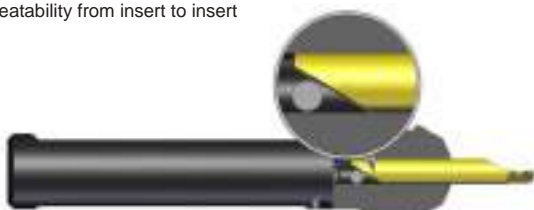


Custom Solutions

- ▶ Inserts made to your specification

STANDARD TOOL HOLDERS WITH FAST LOCATION PIN

- ▶ Stop pin and wedge design for fast and optimum positioning of the insert
- ▶ Immediate and accurate
- ▶ High repeatability from insert to insert



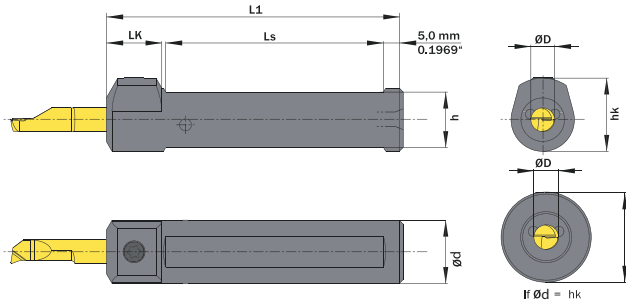
'ME' CONCENTRIC CLAMPING TOOL HOLDERS

- ▶ Concentric clamping of the insert with high precision collet and nut
- ▶ Steel shank for standard applications or carbide shank (for long reach applications)
- ▶ Stop pin and wedge design for optimum positioning of the insert
- ▶ 4 types of through coolant with 1 holder
- ▶ 1st choice for the highest precision applications



SIMTURN AX TOOL HOLDER ROUND SHANK, STANDARD CLAMPING

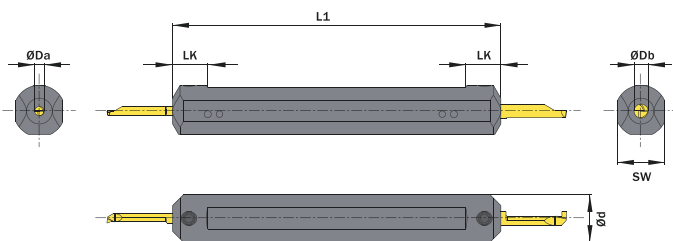
- ▶ Through coolant
- ▶ Single ended



ØD	Ød	h	hk	L1	LK	Ls	DESCRIPTION	ORDER CODE	PRICE	SERIES
4	10	8	14.5	65	14	45	A04.0010	AE46		A04
4	12	10	15.5	70	14	50	A04.0012	AE0X		
4	16	14	17.5	75	14	55	A04.0016	AF2K		
4	20	18	20	90	14	70	A04.0020	AC6Y		
4	22	20	22	110	13	90	A04.0022	AD0V		
4	25	23	25	110	15	90	A04.0025	ACAS		
5	10	8	15	65	14	45	A05.0010	ABMY		A05
5	12	10	16	70	14	50	A05.0012	AEA9		
5	16	14	18	75	14	55	A05.0016	AEGF		
5	20	18	20	90	14	70	A05.0020	ABDK		
5	22	20	22	110	15	90	A05.0022	AG78		
5	25	23	25	110	15	90	A05.0025	AMVA		
6	12	10	16.5	70	14	50	A06.0012	AE6Z		A06
6	16	14	18.5	75	14	55	A06.0016	ANUJ		
6	20	18	22	90	14	70	A06.0020	AEV6		
6	22	20	22	110	15	90	A06.0022	AAW6		
6	25	23	25	110	15	90	A06.0025	AGFG		
7	16	14	19	75	14	55	A07.0016	ANSH		A07
7	20	18	22	90	14	70	A07.0020	AJ4T		
7	22	20	22	110	15	90	A07.0022	AE9S		
7	25	23	25	110	15	90	A07.0025	AEK6		
8	16	14	19.5	75	14	55	A08.0016	AAAV		A08
8	20	18	25	90	14	70	A08.0020	AD6N		
8	25	23	25	110	15	90	A08.0025	AMAS		
10	20	18	25	90	14	70	A10.0020	AGQZ		A10
10	25	23	25	110	15	90	A10.0025	ABB8		

SIMTURN AX TOOL HOLDER ROUND SHANK, STANDARD CLAMPING, DOUBLE ENDED

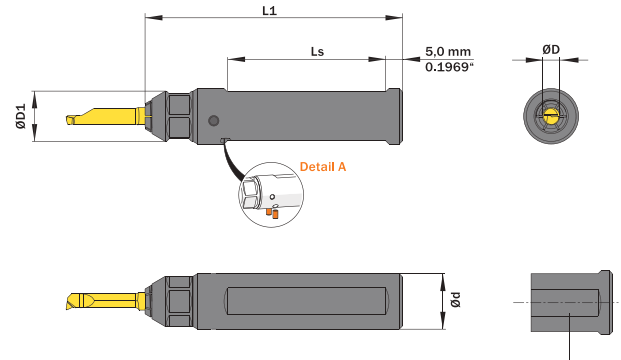
- ▶ Double ended for Swiss machining



ØDa	ØDb	Ød	L1	LK	SW	DESCRIPTION	ORDER CODE	PRICE	SERIES
4	4	20	140	15	17	A04.0020.0140.A04	APJQ		A04/A04
4	5	20	140	15	17	A04.0020.0140.A05	AMF0		A04/A05
4	6	20	140	15	17	A04.0020.0140.A06	AAWT		A04/A06
4	4	22	140	15	19	A04.0022.0140.A04	AGV1		A04/A04
4	6	22	140	15	19	A04.0022.0140.A06	AA6P		A04/A06
4	6	25	140	15	23	A04.0025.0140.A06	AEZP		A04/A06
4	6	28	140	15	26	A04.0028.0140.A06	AB7A		A04/A06
5	5	20	140	15	17	A05.0020.0140.A05	AK9Y		A05/A05
5	6	20	140	15	17	A05.0020.0140.A06	APND		A05/A06
6	6	20	140	15	17	A06.0020.0140.A06	AGXT		A06/A06
6	6	22	140	15	19	A06.0022.0140.A06	AJC6		A06/A06

SIMTURN AX TOOL HOLDER ROUND SHANK, 'ME' CONCENTRIC CLAMPING

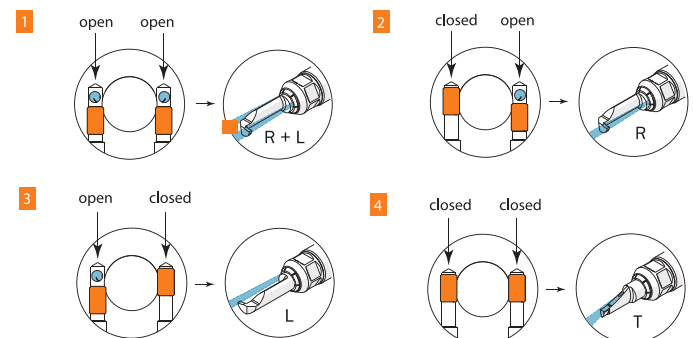
- ▶ 4 different types of through coolant can be achieved
- ▶ Single ended, 'ME' concentric clamping for highest accuracy machining



ØD	Ød	ØD1	L1	Ls	DESCRIPTION	ORDER CODE	PRICE	SERIES
4	12	14.5	70	42	A04.0012.ME ST T	AY7A		A04
4	16	14.5	75	47	A04.0016.ME ST T	AY7B		
4	20	14.5	90	58	A04.0020.ME ST T	AY7C		
4	22	14.5	110	80	A04.0022.ME ST T	AZJ1		
4	25	14.5	110	80	A04.0025.ME ST T	AY7D		A05
5	12	14.5	70	41	A05.0012.ME ST T	AY7F		
5	16	14.5	75	46	A05.0016.ME ST T	AY7G		
5	20	14.5	90	58	A05.0020.ME ST T	AY7H		
5	22	14.5	110	79	A05.0022.ME ST T	AZJ3		
5	25	14.5	110	79	A05.0025.ME ST T	AY7J		A06
6	12	16.5	70	37.5	A06.0012.ME ST T	AZJ5		
6	16	16.5	75	42.5	A06.0016.ME ST T	AY7M		
6	20	16.5	90	57.5	A06.0020.ME ST T	AY7N		
6	22	16.5	110	77.5	A06.0022.ME ST T	AZJ6		
6	25	16.5	110	77.5	A06.0025.ME ST T	AY7P		
7	16	16.5	75	42.5	A07.0016.ME ST T	AY7Q		
7	20	16.5	90	57.5	A07.0020.ME ST T	AY7S		
7	22	16.5	110	78	A07.0022.ME ST T	AZM0		
7	25	16.5	110	78	A07.0025.ME ST T	AY7T		A08
8	16	19	75	42	A08.0016.ME ST T	AY67		
8	20	19	90	55	A08.0020.ME ST T	AY7U		
8	25	19	110	75	A08.0025.ME ST T	AY7V		A10
10	20	19	90	55	A10.0020.ME ST T	AY7W		
10	25	19	110	75	A10.0025.ME ST T	AY7X		

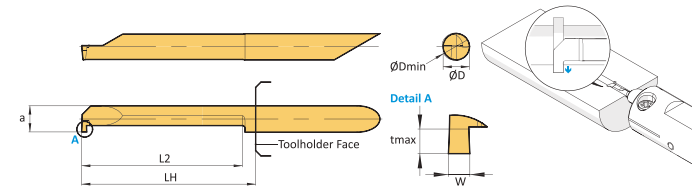
'ME' Tool Holders

4 Different Types Of Through Coolant Can Be Achieved



SIMTURN AX
GROOVING INSERTS

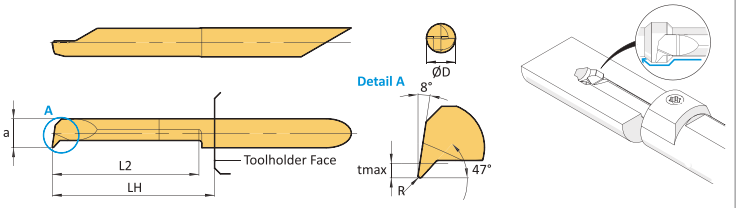
► Precision grooving from Ø2mm bores



ØD	Min Bore	W (+0.03)	L2	LH	t max	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
4	2	0.5	6.1	13	0.4	1.75	A04.C050.06.20 GR	ABQ4X800			A04
4	2	0.5	9.1	13	0.4	1.75	A04.C050.09.20 GR	AG6VX800			
4	3	0.7	8.1	13	0.6	2.75	A04.C070.08.30 GR	AM07X800			
4	3	0.7	16.3	23	0.6	2.75	A04.C070.16.30 GR	AB70X800			
4	4.2	0.79	10.2	13	0.8	3.95	A04.0078.10.42 GR	AFQBX800			
4	4.2	0.79	20.3	23	0.8	3.95	A04.0078.20.42 GR	AKJAX800			
4	4.2	1	10.2	13	0.8	3.95	A04.0100.10.42 GR	ANMYX800			
4	4.2	1	15.2	18	0.8	3.95	A04.0100.15.42 GR	AAQTJ800			
4	4.2	1	20.3	23	0.8	3.95	A04.0100.20.42 GR	ABMQX800			
5	5.2	0.79	10.2	13	1	4.95	A05.0078.10.52 GR	AD73X800			
5	5.2	0.79	15.2	18	1	4.95	A05.0078.15.52 GR	AKYBX800			
5	5.2	0.79	25.4	28	1	4.95	A05.0078.25.52 GR	AHZ2X800			
5	5.2	1	10.2	13	1	4.95	A05.0100.10.52 GR	AEBXC800			
5	5.2	1	20.3	23	1	4.95	A05.0100.20.52 GR	AAAXX800			
5	5.2	1	25.4	28	1	4.95	A05.0100.25.52 GR	AGA3X800			
5	5.2	1.17	20.3	23	1	4.95	A05.0117.20.52 GR	AF9GX800			
5	5.2	1.17	30.5	33	1	4.95	A05.0117.30.52 GR	AC54X800			
5	5.2	1.5	10.2	13	1	4.95	A05.0150.10.52 GR	AG38X800			
5	5.2	1.5	15.2	18	1	4.95	A05.0150.15.52 GR	ANY8X800			
5	5.2	1.5	25.4	28	1	4.95	A05.0150.25.52 GR	AAKFX800			
5	5.2	1.57	10.2	13	1	4.95	A05.0157.10.52 GR	APCYX800			
5	5.2	1.57	20.3	23	1	4.95	A05.0157.20.52 GR	AE6PX800			
5	5.2	1.98	10.2	13	1	4.95	A05.0198.10.52 GR	AJ4GX800			
5	5.2	1.98	20.3	23	1	4.95	A05.0198.20.52 GR	ACFGX800			
5	5.2	1.98	25.4	28	1	4.95	A05.0198.25.52 GR	ABS3X800			
5	5.2	2	10.2	13	1	4.95	A05.0200.10.52 GR	AEKFX800			
5	5.2	2	15.2	18	1	4.95	A05.0200.15.52 GR	ACHWX800			
5	5.2	2	20.3	23	1	4.95	A05.0200.20.52 GR	AHTZX800			
5	5.2	2	30.5	33	1	4.95	A05.0200.30.52 GR	AF7JX800			
6	6.2	0.79	20.3	23	1.8	5.95	A06.0078.20.62 GR	AFQZX800			
6	6.2	0.79	30.5	33	1.8	5.95	A06.0078.30.62 GR	ACZDX800			
6	6.2	1	10.2	13	1.8	5.95	A06.0100.10.62 GR	APGKX800			
6	6.2	1	15.2	18	1.8	5.95	A06.0100.15.62 GR	ACW8X800			
6	6.2	1	25.4	28	1.8	5.95	A06.0100.25.62 GR	AJXTX800			
6	6.2	1	30.5	33	1.8	5.95	A06.0100.30.62 GR	AH78X800			
6	6.2	1	40.6	43	1.8	5.95	A06.0100.40.62 GR	AKTDX800			
6	6.2	1.17	10.2	13	1.8	5.95	A06.0117.10.62 GR	AG4PX800			
6	6.2	1.17	30.5	33	1.8	5.95	A06.0117.30.62 GR	AFN5X800			
6	6.2	1.5	10.2	13	1.8	5.95	A06.0150.10.62 GR	ACH4X800			
6	6.2	1.5	15.2	18	1.8	5.95	A06.0150.15.62 GR	ADPJX800			
6	6.2	1.5	25.4	28	1.8	5.95	A06.0150.25.62 GR	AFHVX800			
6	6.2	1.5	35.6	38	1.8	5.95	A06.0150.35.62 GR	ACUCX800			
6	6.2	1.57	10.2	13	1.8	5.95	A06.0157.10.62 GR	AES5X800			
6	6.2	1.57	20.3	23	1.8	5.95	A06.0157.20.62 GR	ADABX800			
6	6.2	1.57	30.5	33	1.8	5.95	A06.0157.30.62 GR	AK3JX800			
6	6.2	1.98	10.2	13	1.8	5.95	A06.0198.10.62 GR	AH4XX800			
6	6.2	1.98	20.3	23	1.8	5.95	A06.0198.20.62 GR	AXVNX800			
6	6.2	1.98	30.5	33	1.8	5.95	A06.0198.30.62 GR	AJCJX800			
6	6.2	2	10.2	13	1.8	5.95	A06.0200.10.62 GR	ABY8X800			
6	6.2	2	15.2	18	1.8	5.95	A06.0200.15.62 GR	AFYPX800			
6	6.2	2	25.4	28	1.8	5.95	A06.0200.25.62 GR	APT6X800			
6	6.2	2	30.5	33	1.8	5.95	A06.0200.30.62 GR	AC74X800			
7	7.2	0.79	10.2	13	2.5	6.95	A07.0078.10.72 GR	ANFUX800			
7	7.2	0.79	20.3	23	2.5	6.95	A07.0078.20.72 GR	AG21X800			
7	7.2	0.79	40.6	43	2.5	6.95	A07.0078.40.72 GR	ANWXX800			
7	7.2	1	10.2	13	2.5	6.95	A07.0100.10.72 GR	AJW1X800			
7	7.2	1	15.2	18	2.5	6.95	A07.0100.15.72 GR	AKT1X800			
7	7.2	1	25.4	28	2.5	6.95	A07.0100.25.72 GR	APYKX800			
7	7.2	1	35.6	38	2.5	6.95	A07.0100.35.72 GR	AKNF800			
7	7.2	1.5	10.2	13	2.5	6.95	A07.0150.10.72 GR	AAAN7X800			
7	7.2	1.5	15.2	18	2.5	6.95	A07.0150.15.72 GR	ACHZX800			
7	7.2	1.5	25.4	28	2.5	6.95	A07.0150.25.72 GR	AJW7X800			
7	7.2	1.5	40.6	43	2.5	6.95	A07.0150.40.72 GR	AMH7X800			
7	7.2	1.57	10.2	13	2.5	6.95	A07.0157.10.72 GR	AP08X800			
7	7.2	1.57	20.3	23	2.5	6.95	A07.0157.20.72 GR	AN5YX800			
7	7.2	1.57	30.5	33	2.5	6.95	A07.0157.30.72 GR	ABPXX800			
7	7.2	1.57	40.6	43	2.5	6.95	A07.0157.40.72 GR	AFZGX800			
7	7.2	1.98	10.2	13	2.5	6.95	A07.0198.10.72 GR	AHMKX800			
7	7.2	1.98	20.3	23	2.5	6.95	A07.0198.20.72 GR	AENZWX800			
7	7.2	1.98	30.5	33	2.5	6.95	A07.0198.30.72 GR	AJQG800			
7	7.2	2	10.2	13	2.5	6.95	A07.0200.10.72 GR	AVF2X800			
7	7.2	2	20.3	23	2.5	6.95	A07.0200.20.72 GR	AAVPX800			
7	7.2	2	35.6	38	2.5	6.95	A07.0200.35.72 GR	AJNMX800			

SIMTURN AX
COPYING & PROFILING INSERTS

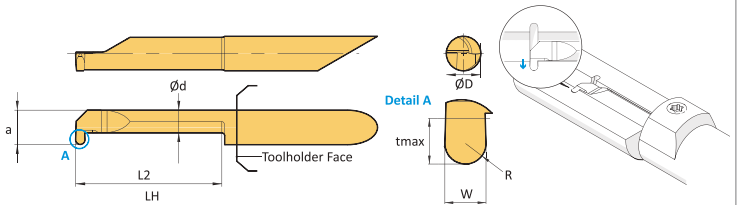
► Precision copying & profiling from Ø2.2mm bores



ØD	Min Bore	L2	LH	t max	R	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
4	2.2	10.2	13	0.4	0.1	1.95	A04.4710.10.22.10 YR	AEJXX800			A04
4	2.7	15.2	18	0.5	0.1	2.45	A04.4712.15.27.10 YR	ANTXX800			
4	3.2	15.2	18	0.6	0.1	2.95	A04.4715.15.32.10 YR	ADSBX800			
4	4.2	20.3	23	0.8	0.15	3.95	A04.4720.20.42.15 YR	AMFJX800			
5	5.2	15.2	18	1	0.15	4.95	A05.4725.15.52.15 YR	AYD3X800			A05
5	5.2	25.4	28	1	0.15	4.95	A05.4725.25.52.15 YR	AEMFX800			
6	6.2	20.3	23	1.8	0.15	5.95	A06.4730.20.62.15 YR	AACYX800			A06
6	6.2	30.5	33	1.8	0.15	5.95	A06.4730.30.62.15 YR	AJ6FX800			
7	7.2	40.6	43	2.5	0.2	6.95	A07.4735.40.72.20 YR	AQ9EX800			A07

SIMTURN AX
FULL RADIUS GROOVING INSERTS

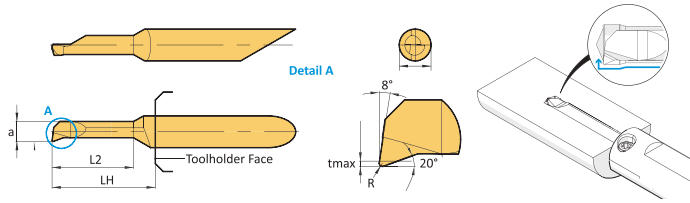
► Full radius grooving, copying & profiling from Ø4.2mm bores



ØD	Min Bore	W	R	L2	t max	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
4	4.2	1	0.5	15.2	0.8	3.95	A04.0100.15.42 VR	AC9GX800			A04
4	4.2	1.17	0.585	15.2	0.8	3.95	A04.0117.15.42 VR	AG4MX800			
5	5.2	1	0.5	20.3	1	4.95	A05.0100.20.52 VR	AHPYX800			A05
5	5.2	1.17	0.585	20.3	1	4.95	A05.0117.20.52 VR	AGGWX800			
5	5.2	1.5	0.75	20.3	1	4.95	A05.0150.20.52 VR	AA2SX800			
5	5.2	2	1	20.3	1	4.95	A05.0200.20.52 VR	AK1UX800			
6	6.2	1	0.5	25.4	1.8	5.95	A06.0100.25.62 VR	AKUZ800			A06
6	6.2	1.17	0.585	25.4	1.8	5.95	A06.0117.25.62 VR	AKMZ800			
6	6.2	1.5	0.75	25.4	1.8	5.95	A06.0150.25.62 VR	AD22X800			
6	6.2	2	1	25.4	1.8	5.95	A06.0200.25.62 VR	AH3SX800			
7	7.2	1	0.5	30.5	2.5	6.95	A07.0100.30.72 VR	AMUAX800			A07
7	7.2	1.17	0.585	30.5	2.5	6.95	A07.0117.30.72 VR	ABU4X800			
7	7.2	1.5	0.75	30.5	2.5	6.95	A07.0150.30.72 VR	AJX4X800			
7	7.2	1.574	0.787	30.5	2.5	6.95	A07.0157.30.72 VR	AG9XX800			
7	7.2	2	1	30.5	2.5	6.95	A07.0200.30.72 VR	ACTTX800			

**SIMTURN AX
BORING INSERTS**

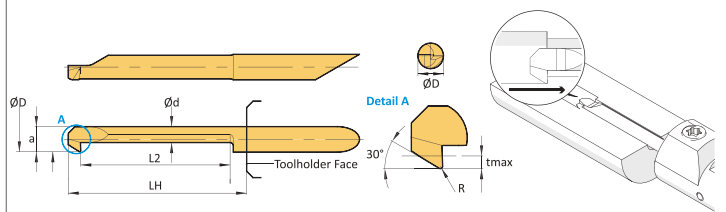
► Precision boring from Ø0.3mm bores



ØD	Min Bore	L2	LH	t _{max}	R	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
4	0.3	1.2	13	-	-	0.25	A04.5C15.01.03.00 YR	AW9EX800			
4	0.4	1.6	13	-	-	0.35	A04.5C15.01.03.00 YR	AW9EX800			
4	0.5	2.0	13	-	-	0.45	A04.5C25.02.05.00 YR	ABJWX800			
4	0.6	2.5	13	-	-	0.55	A04.5C30.02.06.00 YR	APVNX800			
4	0.7	3.6	13	-	-	0.65	A04.5C35.03.07.00 YR	AB9WX800			
4	0.8	4.0	13	-	-	0.75	A04.5C40.04.08.00 YR	AJ4NX800			
4	0.9	5.0	13	-	-	0.85	A04.5C45.05.09.00 YR	ADKPX800			
4	1	4	13	0.1	0.05	0.95	A04.1C04.04.10.05 YR	AW9GX800			
4	1	6	13	0.1	0.05	0.95	A04.1C04.06.10.05 YR	AW9HX800			
4	1.2	5.1	13	0.1	0.1	1.1	A04.1C05.04.12.10 YR	AW3AX800			
4	1.2	7.1	13	0.1	0.1	1.1	A04.1C05.07.12.10 YR	AW3CX800			
4	1.2	9.1	13	0.1	0.1	1.1	A04.1C05.09.12.10 YR	AW3EX800			
4	1.4	6	13	0.15	0.1	1.25	A04.1C06.06.14.10 YR	AW3GX800			
4	1.4	10.2	13	0.15	0.1	1.25	A04.1C06.10.14.10 YR	AW3JX800			
4	1.7	6	13	0.2	0.1	1.45	A04.1C07.06.17.10 YR	AF0JX800			
4	1.7	9.1	13	0.2	0.1	1.45	A04.1C07.09.17.10 YR	ANYCX800			
4	1.9	9.1	13	0.2	0.1	1.65	A04.1C08.09.19.10 YR	AW3MX800			
4	1.9	12.2	18	0.2	0.1	1.65	A04.1C08.12.19.10 YR	AW3PX800			
4	2.2	6	13	0.2	0.1	1.95	A04.1C10.06.22.10 YR	ABCMX800			
4	2.2	9.1	13	0.2	0.1	1.95	A04.1C10.09.22.10 YR	ABD9X800			
4	2.2	13.2	18	0.2	0.1	1.95	A04.1C10.13.22.10 YR	AGGHX800			
4	2.7	10.2	13	0.2	0.15	2.45	A04.1C12.10.27.15 YR	AJ8JX800			
4	2.7	15.2	18	0.2	0.15	2.45	A04.1C12.15.27.15 YR	AB8CX800			
4	3	15.2	18	0.2	0.15	2.75	A04.1C14.15.30.15 YR	AW3SX800			
4	3	25.4	28	0.2	0.05	2.75	A04.1C14.25.30.05 YR	AW9TX800			
4	3.2	10.2	13	0.2	0.15	2.95	A04.1C15.10.32.15 YR	AG17X800			
4	3.2	15.2	18	0.2	0.15	2.95	A04.1C15.15.32.15 YR	ABTGX800			
4	3.2	20.3	23	0.2	0.15	2.95	A04.1C15.20.32.15 YR	AAVUX800			
4	3.7	10.2	13	0.2	0.15	3.45	A04.1C17.10.37.15 YR	ANJFX800			
4	3.7	15.2	18	0.2	0.15	3.45	A04.1C17.15.37.15 YR	AHBDX800			
4	3.7	25.4	28	0.2	0.1	3.45	A04.1C17.25.37.10 YR	ANNSX800			
4	4.2	10.2	13	0.3	0.15	3.95	A04.1820.10.42.15 YR	AEH9X800			
4	4.2	15.2	18	0.3	0.15	3.95	A04.1820.15.42.15 YR	AHDXX800			
4	4.2	20.3	23	0.3	0.05	3.95	A04.1820.20.42.05 YR	AB3AX800			
4	4.2	25.4	28	0.3	0.05	3.95	A04.1820.25.42.05 YR	AMV0X800			
4	4.2	30.5	33	0.3	0.05	3.95	A04.1820.30.42.05 YR	ASFYX800			
5	5.2	10.2	13	0.5	0.2	4.95	A05.1825.10.52.20 YR	AFCWX800			
5	5.2	15.2	18	0.5	0.2	4.95	A05.1825.15.52.20 YR	AF4YX800			
5	5.2	20.3	23	0.5	0.2	4.95	A05.1825.20.52.20 YR	AM8MX800			
5	5.2	30.5	33	0.5	0.2	4.95	A05.1825.30.52.20 YR	AFY1X800			
5	5.2	40.6	43	0.5	0.2	4.95	A05.1825.40.52.20 YR	AMQKX800			
6	6.2	15.2	18	0.5	0.2	5.95	A06.1830.15.62.20 YR	AG74X800			
6	6.2	25.4	28	0.5	0.2	5.95	A06.1830.25.62.20 YR	AMJGX800			
6	6.2	35.6	38	0.5	0.2	5.95	A06.1830.35.62.20 YR	ABT1X800			
6	6.2	40.6	43	0.5	0.2	5.95	A06.1830.40.62.20 YR	AC3SX800			
7	7.2	25.4	28	0.5	0.2	6.95	A07.1835.25.72.20 YR	APJJX800			
7	7.2	35.6	38	0.5	0.2	6.95	A07.1835.35.72.20 YR	AMGJX800			
7	7.2	45.7	48	0.5	0.2	6.95	A07.1835.45.72.20 YR	AMXAX800			
7	7.2	50.8	53	0.5	0.2	6.95	A07.1835.50.72.20 YR	AKWEX800			

**SIMTURN AX
BACK BORING INSERTS**

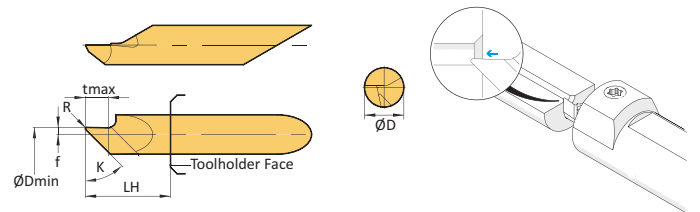
► Precision back boring from Ø3.2mm bores



ØD	Min Bore	L2	LH	t _{max}	R	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
4	3.2	13.2	18	0.5	0.1	2.95	A04.3015.15.32.10 YR R	AASAX800			
4	3.2	18.3	23	0.5	0.1	2.95	A04.3015.20.32.10 YR R	AJHJX800			
4	4.2	13.2	18	0.8	0.15	3.95	A04.3020.15.42.15 YR R	AC41X800			
4	4.2	23.4	28	0.8	0.15	3.95	A04.3020.25.42.15 YR R	AABTX800			
5	5.2	18.3	23	1	0.2	4.95	A05.3025.20.52.20 YR R	ACNQX800			
5	5.2	28.5	33	1	0.2	4.95	A05.3025.30.52.20 YR R	AMAFX800			
6	6.2	18.3	23	1.8	0.2	5.95	A06.3030.20.62.20 YR R	AH02X800			
6	6.2	28.5	33	1.8	0.2	5.95	A06.3030.30.62.20 YR R	ABGKX800			
7	7.2	17.3	23	2.5	0.2	6.95	A07.3035.20.72.20 YR R	AM7GX800			
7	7.2	27.5	33	2.5	0.2	6.95	A07.3035.30.72.20 YR R	APVPX800			

**SIMTURN AX
CHAMFERING INSERTS**

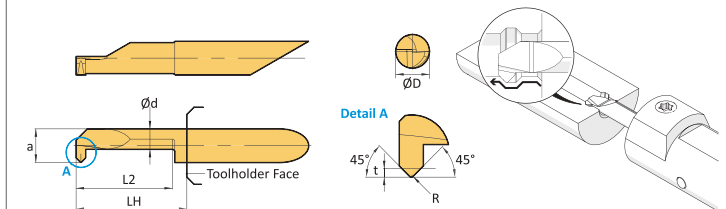
► 30°, 45° & 60° angle chamfer inserts



ØD	K	Min Bore	LH	f	R	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
6	30°	1	13	1.7	0.2	A06.0030.17.20 AF R	A5STX800			
6	45°	1	13	1.1	0.2	A06.0045.11.20 AF R	AJ6QX800			
6	60°	1	13	0.5	0.2	A06.0060.05.20 AF R	ABJYX800			

**SIMTURN AX
BORING & CHAMFERING INSERTS**

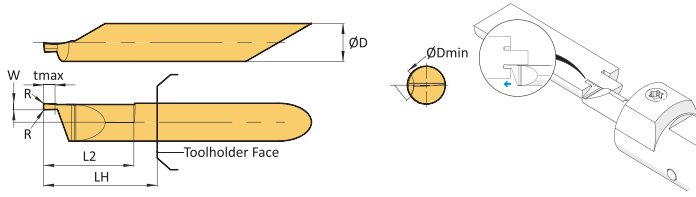
► Precision boring & chamfering from Ø5.2mm bores



ØD	Min Bore	L2	LH	t	R	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
5	5.2	15.4	18	0.7	0.2	4.95	A05.4545.15.52 FR R	ANEEX800			
5	5.2	20.3	23	0.7	0.2	4.95	A05.4545.20.52 FR R	AAYPX800			
6	6.2	20.3	23	0.7	0.2	5.95	A06.4545.20.62 FR R	AG75X800			
6	6.2	25.4	28	0.7	0.2	5.95	A06.4545.25.62 FR R	AJ5JX800			
7	7.2	20.3	23	0.7	0.2	6.95	A07.4545.20.72 FR R	AJC3X800			
7	7.2	40.6	43	0.7	0.2	6.95	A07.4545.40.72 FR R	AHP6X800			

**SIMTURN AX
FACE GROOVING INSERTS FOR EXTERNAL MACHINING**

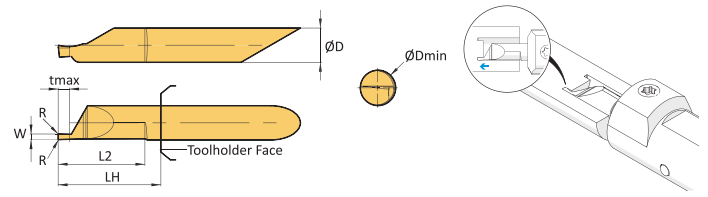
- ▶ Minimum diameter of face groove: $\varnothing 6.2\text{mm}$
- ▶ For external face grooves



ØD	Min Bore	W	L2	LH	t _{max}	R	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
6	6.2	1	15.2	18	2	0.15	A06.0100.15.02 AG R	ABQAX800			A06
6	6.2	1.17	15.2	18	2.34	0.15	A06.0117.15.02 AG R	AAUYX800			
6	6.2	1.5	15.2	18	3	0.15	A06.0150.15.02 AG R	AN6WX800			
6	6.2	2	15.2	18	4	0.15	A06.0200.15.02 AG R	AA2DX800			
6	6.2	2.5	15.2	18	5	0.15	A06.0250.15.02 AG R	AG4WX800			
6	6.2	3	15.2	18	6	0.15	A06.0300.15.02 AG R	ABGXJ800			

**SIMTURN AX FACE GROOVING INSERTS
FOR MACHINING IN BORES**

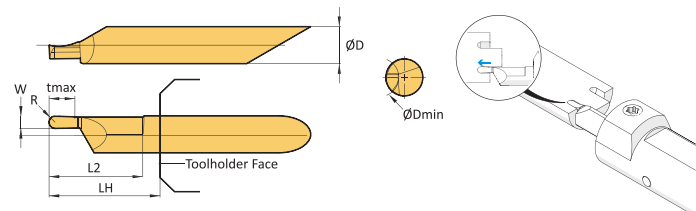
- ▶ Precision face grooving from $\varnothing 6.2\text{mm}$ bores
- ▶ For machining face grooves in bores



ØD	Min Bore	W	L2	LH	t _{max}	R	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
6	6.2	0.79	15.2	18	1.8	0.05	A06.0078.15.01.05 AGR	AYU8X800			A06
6	6.2	1	15.2	18	2	0.05	A06.0100.15.01.05 AGR	AYU7X800			
6	6.2	1.5	15.2	18	3	0.05	A06.0150.15.01.05 AGR	AYVAX800			
6	6.2	1	15.2	18	2	0.15	A06.0100.15.01 AG R	AB01X800			
6	6.2	1.5	15.2	18	3	0.15	A06.0150.15.01 AG R	AMN7X800			
6	6.2	2	15.2	18	4	0.15	A06.0200.15.01 AG R	AJ67X800			
6	6.2	2.5	15.2	18	5	0.15	A06.0250.15.01 AG R	AHG4X800			
6	6.2	3	15.2	18	6	0.15	A06.0300.15.01 AG R	ABX0X800			

**SIMTURN AX FULL RADIUS
FACE GROOVING INSERTS FOR EXTERNAL MACHINING**

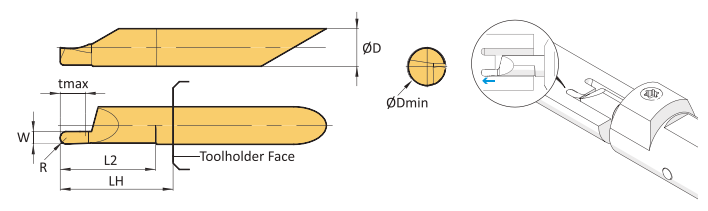
- ▶ Minimum diameter of face groove: $\varnothing 6.2\text{mm}$
- ▶ For external face grooves with a full radius



ØD	Min Bore	W	L2	LH	t _{max}	R	GEOMETRY	ORDER CODE	1-4 PRICE EACH	5+ PRICE EACH	SERIES
6	6.2	1	15.2	18	0.5	2	A06.0100.15.02 AV R	AJSDX800			A06
6	6.2	2	15.2	18	1	4	A06.0200.15.02 AV R	AM6HX800			
6	6.2	2.5	15.2	18	1.25	5	A06.0250.15.02 AV R	AHPWX800			
6	6.2	3	15.2	18	1.5	6	A06.0300.15.02 AV R	ABYFX800			

**SIMTURN AX FULL RADIUS FACE GROOVING INSERTS
FOR MACHINING IN BORES**

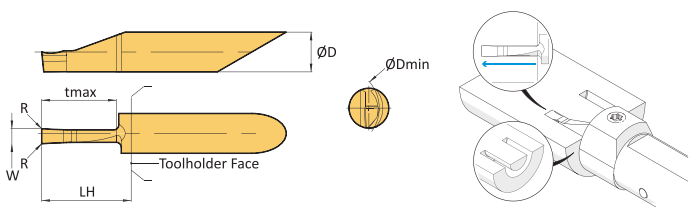
- ▶ Precision face grooving from $\varnothing 6.2\text{mm}$ bores
- ▶ For machining face grooves in bores with a full radius



ØD	Min Bore	W	L2	LH	t _{max}	R	GEOMETRY	ORDER CODE	1-4 PRICE EACH	5+ PRICE EACH	SERIES
6	6.2	1	15.2	18	2	0.5	A06.0100.15.01 AV R	AE1CX800			A06
6	6.2	1.6	15.2	18	3	0.8	A06.0160.15.01 AV R	AJPQX800			
6	6.2	2	15.2	18	4	1	A06.0200.15.01 AV R	AB30X800			
6	6.2	2.5	15.2	18	5	1.25	A06.0250.15.01 AV R	AAE4X800			
6	6.2	3	15.2	18	6	1.5	A06.0300.15.01 AV R	AF07X800			

**SIMTURN AX GROOVING INSERTS
FOR DEEP FACE GROOVES <15mm TMAX**

- ▶ For machining face grooves up to 15mm deep



ØD	Min Bore	W	LH	t _{max}	R	GEOMETRY	ORDER CODE	1-4 PRICE EACH	5+ PRICE EACH	SERIES
8	16	2	15	10	0.2	A08.0200.10.00 AG R	AV5VX800			A08
8	16	2	15	15	0.2	A08.0200.15.00 AG R	AKK7X800			
8	16	2.5	15	10	0.2	A08.0250.10.00 AG R	ABJNX800			
8	16	3	15	10	0.2	A08.0300.10.00 AG R	ANH7X800			
8	16	3	15	15	0.2	A08.0300.15.00 AG R	APG2X800			
8	16	4	15	10	0.2	A08.0400.10.00 AG R	AFJ9X800			
8	16	4	15	15	0.2	A08.0400.15.00 AG R	AMQ5X800			



SIMTURN AX CUSTOM TOOLS

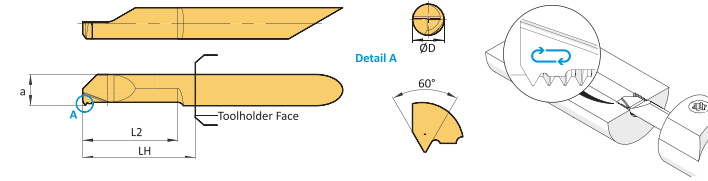
Our team of experienced engineers work hand in hand with Simtek to provide custom solutions to suit your application. Special inserts can be provided for any Simtek turning system.

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**SIMTURN AX THREADING INSERTS (METRIC ISO)
FULL PROFILE**

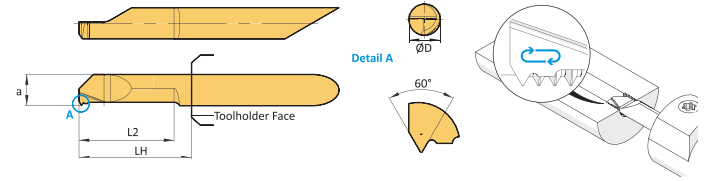
- ▶ Precision threading from Ø3.2mm bores
- ▶ Full profile Metric ISO



ØD	Min Bore	Pitch	L2	LH	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
4	3.2	0.7	15.2	18	2.95	A04.MT07.02.15.32 MR	AX2AX800			A04
4	3.9	0.8	15.2	18	3.65	A04.MT08.02.15.39 MR	AW96X800			
4	4.2	0.5	15.2	18	3.95	A04.MT05.02.15.42 MR	AM3SX800			
4	4.2	0.7	15.2	18	3.95	A04.MT07.02.15.42 MR	AX5WX800			
5	4.8	1	15.2	18	4.55	A05.MT10.02.15.48 MR	AANFX800			A05
5	5.1	0.75	15.2	18	4.85	A05.MT75.02.15.51 MR	AAP5X800			
5	5.2	0.5	15.2	18	4.95	A05.MT05.02.15.52 MR	AGN4X800			
6	6.2	1	15.2	18	5.95	A06.MT10.02.15.62 MR	ANZGX800			A06
6	6.2	1.25	15.2	18	5.95	A06.MT12.02.15.62 MR	ANSNX800			
6	6.2	1.5	15.2	18	5.95	A06.MT15.02.15.62 MR	ADMYX800			
6	6.2	1.75	15.2	18	5.95	A06.MT17.02.15.62 MR	APC1X800			
6	6.2	2	15.2	18	5.95	A06.MT20.02.15.62 MR	AK5NX800			

**SIMTURN AX THREADING INSERTS (UN)
FULL PROFILE**

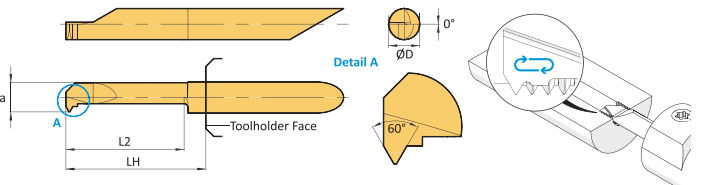
- ▶ Precision threading from Ø4mm bores
- ▶ Full profile UN



ØD	Min Bore	Pitch	L2	LH	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
4	4	28	15.2	18	3.75	A04.UN28.02.15.39 MR	AW98X800			A04
4	4	32	15.2	18	3.75	A04.UN32.02.15.39 MR	AW97X800			
4	4.2	24	15.2	18	3.95	A04.UN24.02.15.42 MR	ACKFX800			
5	5.2	20	15.2	18	4.95	A05.UN20.02.15.52 MR	AJXH800			A05
6	6.2	14	15.2	18	5.95	A06.UN14.02.15.62 MR	AGVTX800			A06
6	6.2	16	15.2	18	5.95	A06.UN16.02.15.62 MR	AMTCX800			
6	6.2	18	15.2	18	5.95	A06.UN18.02.15.62 MR	AK2JGX800			

**SIMTURN AX THREADING INSERTS (METRIC ISO)
PARTIAL PROFILE**

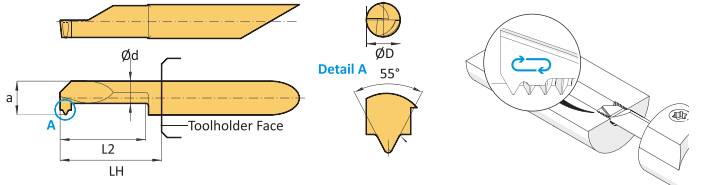
- ▶ Precision threading from Ø1.57mm bores
- ▶ Partial profile Metric ISO



ØD	Min Bore	Pitch min	Pitch max	L2	LH	a	GEOMETRY	ORDER CODE	1-4 PRICE EACH	5+ PRICE EACH	SERIES
4	1.57	0.4	0.4	5	13	1.4	A04.M040.01.05.15 MR	AB5TX800			A04
4	2.46	0.5	0.5	7.6	13	2.2	A04.M050.01.07.24 MR	ADAUX800			
4	3.24	0.7	0.7	10.2	13	2.95	A04.M070.01.10.32 MR	ABVGX800			
4	3.9	0.8	1	15.2	18	3.65	A04.MT08.01.15.39 MR	AW95X800			
4	4.2	0.5	0.7	15.2	18	3.95	A04.MT05.01.15.42 MR	AD6SX800			A05
5	4.8	1	1.25	15.2	18	4.55	A05.MT10.01.15.48 MR	AJA0X800			
5	4.8	1	1.25	25.4	28	4.55	A05.MT10.01.25.48 MR	AH4DX800			
5	5.1	0.75	1	15.2	18	4.85	A05.MT07.01.15.51 MR	APGSX800			A06
5	5.2	0.5	0.75	15.2	18	4.95	A05.MT05.01.15.52 MR	AE44X800			
6	6.2	1	1.25	15.2	18	5.95	A06.MT10.01.15.62 MR	AAT9X800			
6	6.2	1.25	1.5	20.3	23	5.95	A06.MT12.01.20.62 MR	ABDJX800			
6	6.2	1.5	1.75	15.2	18	5.95	A06.MT15.01.15.62 MR	AHZWX800			
6	6.2	1.5	1.75	25.4	28	5.95	A06.MT15.01.25.62 MR	AACAX800			

**SIMTURN AX THREADING INSERTS (WHITWORTH)
FULL PROFILE**

- ▶ Precision threading from Ø5.2mm bores
- ▶ Full profile Whitworth



ØD	Min Bore	TPI	L2	LH	a	GEOMETRY	ORDER CODE	1-2 PRICE EACH	3+ PRICE EACH	SERIES
5	5.2	24	15.2	18	4.95	A05.BS24.02.15.52 MR	AJKAX800			A05
5	5.2	26	15.2	18	4.95	A05.BS26.02.15.52 MR	AF70X800			
5	5.2	28	15.2	18	4.95	A05.BS28.02.15.52 MR	ABB4X800			
6	6.2	19	15.2	18	5.95	A06.BS19.02.15.62 MR	AHFDX800			A06
6	6.2	20	15.2	18	5.95	A06.BS20.02.15.62 MR	AHVFX800			
6	6.2	22	15.2	18	5.95	A06.BS22.02.15.62 MR	AGESX800			
6	6.2	24	15.2	18	5.95	A06.BS24.02.15.62 MR	AKC7X800			
6	6.2	26	15.2	18	5.95	A06.BS26.02.15.62 MR	AMDAX800			
6	6.2	28	15.2	18	5.95	A06.BS28.02.15.62 MR	AFKDX800			