

simturnE3

Simturn E3 offers versatility in external and internal machining with high precision ground inserts with 3 cutting edges.

With external shank sizes from 12-32mm and internal shank diameters from 16-40mm, Simturn E3 is the perfect partner for small, medium or large lathes.

The key benefit of Simturn E3 is the ability of 1 tool holder to clamp over 70 different inserts for grooving, threading, parting, profiling and face grooving. The advantage for you is less inventory, more flexibility.

ADVANTAGES

- One tool holder for multiple applications.
- Internal or external machining with the same inserts.
- Ideal for small or large lathes.
- High precision ground inserts provide exceptional accuracy and surface finish.

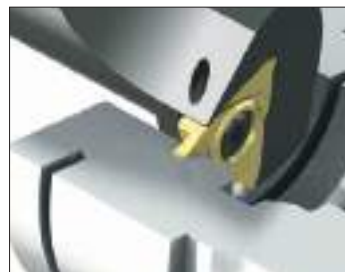
PRECISE, MULTIFUNCTIONAL AND COST EFFECTIVE

MAIN APPLICATIONS



External Grooving

- ▶ 0.5mm-5.15mm wide insert in one holder
- ▶ Right hand inserts fit right hand holders



Internal Grooving

- ▶ 0.5mm-5.15mm wide insert in one holder
- ▶ Left hand inserts fit right hand holders



Parting Off

- ▶ 1mm-2mm wide inserts
- ▶ Up to 5mm max parting depth

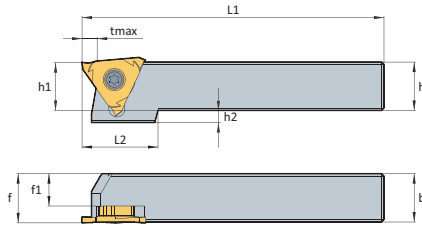


Thread Turning

- ▶ 0.5mm-6mm pitch with 1 holder
- ▶ Metric, UN, NPT, ACME, STUB ACME and BSW

**SIMTURN E3 EXTERNAL TOOL HOLDER
STRAIGHT**

► One holder can take all Simturn E3 inserts*

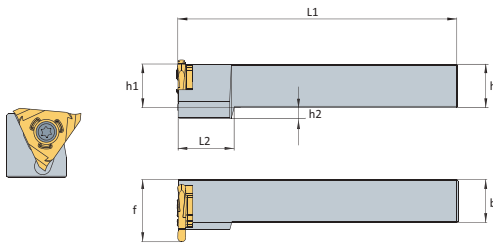


*PLEASE NOTE: Holder takes SAME handed inserts (right hand insert in right hand holder)

h	b	f	f1	h1	L1	L2	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	PRICE
12	12	12.3	7	12	100	24	TE3.1212.00 R/L	ACKZ	AMPP	
16	16	16.3	11	16	100	22	TE3.1616.00 R/L	AB6B	ADGA	
20	20	20.3	15	20	100	21	TE3.2020.00 R/L	AKQ0	AGSG	
25	25	25.3	20	25	125	-	TE3.2525.00 R/L	AD35	ANXN	

**SIMTURN E3 EXTERNAL TOOL HOLDER
CRANKED**

► One holder can take all Simturn E3 inserts*

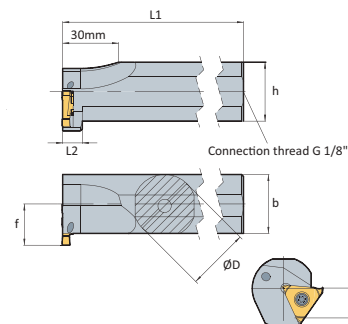


*PLEASE NOTE: Holder takes OPPOSITE handed inserts (right hand insert in left hand holder)

h	b	f	h1	h2	L1	L2	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	PRICE
16	16	23	16	4	125	20	TE3.1616.90 R/L	ASD7	ASD8	
20	20	27	20	-	1000	20	TE3.2020.90 R/L	APXG	AABH	
25	25	32	25	-	150	20	TE3.2525.90 R/L	AC7J	AGSY	

**SIMTURN E3
INTERNAL TOOL HOLDER**

► One holder can take all Simturn E3 inserts*



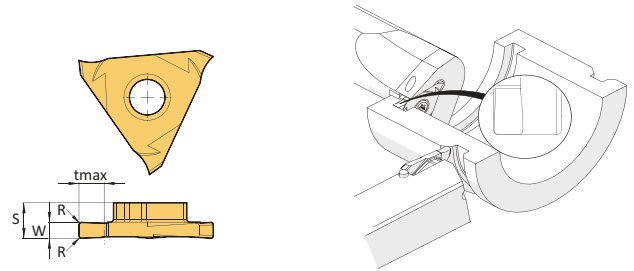
TE3.0025.A.00 R/L TE3.0032.A.00 R/L		TE3.0040.A.00 R/L	
Bore Diameter ØD min	t max	Bore Diameter ØD min	t max
41	0.0	48	0.0
43	1.0	49	1.0
44	2.0	50	2.0
46	3.0	52	3.0
50	4.0	54	4.0
90	5.0	120	5.0

*PLEASE NOTE: Holder takes OPPOSITE handed inserts (right hand insert in left hand holder)

ØD	b	f	h	h1	L1	L2	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	PRICE
25	25	18.5	23	11.5	170	10	TE3.0025.A.00 R/L	ACA5	AH48	
32	30	20	30	15	200	10	TE3.0032.A.00 R/L	ANDC	AG06	
40	38	24	38	19	250	10	TE3.0040.A.00 R/L	AJSM	AJFN	

**SIMTURN E3 GROOVING & PROFILING INSERTS
WITH CORNER RADIUS**

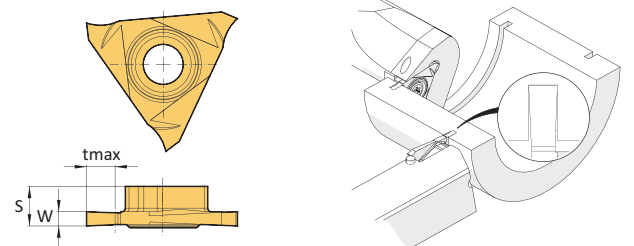
► Suitable for grooving & profiling operations



W -0.02	R	S	t max	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
1.0	0.2	5.6	5	TE3.0100.02 N R/L	AUKWX800	AUKXX800		
1.5	0.2	5.6	5	TE3.0150.02 N R/L	AGUCX800	AJC0X800		
2	0.2	5.6	5	TE3.0200.02 N R/L	AAFUX800	AMG1X800		
2.5	0.2	5.6	5	TE3.0250.02 N R/L	AQHVX800	AQH WX800		
3	0.2	5.6	5	TE3.0300.02 N R/L	AEY1X800	AJYYX800		
4	0.2	5.6	5	TE3.0400.02 N R/L	ABXCX800	AB96X800		
2	0.4	5.6	5	TE3.0200.04 N R/L	AQMVX800	AQM WX800		
2.5	0.4	5.6	5	TE3.0250.04 N R/L	AG8YX800	AGBHX800		
3	0.4	5.6	5	TE3.0300.04 N R/L	AQH YX800	AQH XX800		
4	0.4	5.6	5	TE3.0400.04 N R/L	ASE2X800	ASE1X800		
3	0.6	5.6	5	TE3.0300.06 N R/L	AT61X800	AT60X800		
3	0.8	5.6	5	TE3.0300.08 N R/L	AT7TX800	AT7SX800		

**SIMTURN E3 GROOVING INSERTS
WITHOUT CORNER RADIUS**

► Suitable for nominal & circlip groove sizes (not suitable for profiling)

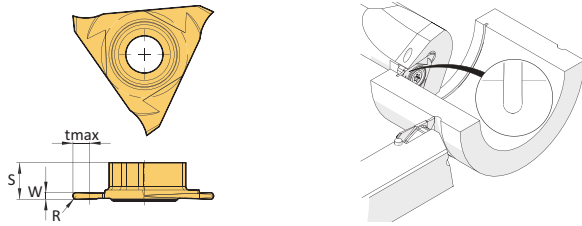


*N = circlip size

W -0.05	N*	S	t max	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
0.57	0.5	5.6	1.43	TE3.0050.00 G R/L	AH0JX800	AF84X800		
0.67	0.6	5.6	1.68	TE3.0060.00 G R/L	ADA6X800	ADCKX800		
0.77	0.7	5.6	1.93	TE3.0070.00 G R/L	AJ4VX800	AAUTX800		
0.87	0.8	5.6	2.18	TE3.0080.00 G R/L	APHDX800	ADJMX800		
0.97	0.9	5.6	2.43	TE3.0090.00 G R/L	AGBWX800	ANNBX800		
1.07	1	5.6	2.68	TE3.0100.00 G R/L	AFBTX800	AKEKX800		
1.24	1.1	5.6	5	TE3.0110.00 G R/L	AP21X800	AJJBX800		
1.24	1.1	5.6	3.1	TE3.0110.31 G R/L	AQBUX800	AQBSX800		
1.44	1.3	5.6	5	TE3.0130.00 G R/L	AHV0X800	AD91X800		
1.74	1.6	5.6	5	TE3.0160.00 G R/L	AD0BX800	AH1ZX800		
1.99	1.85	5.6	5	TE3.0185.00 G R/L	APGFX800	AMV5X800		
2.29	2.15	5.6	5	TE3.0215.00 G R/L	AB92X800	AKUEX800		
2.79	2.65	5.6	5	TE3.0265.00 G R/L	AKW4X800	ABJZX800		
3.29	3.15	5.6	5	TE3.0315.00 G R/L	AJQNX800	AHE6X800		
4.29	4.15	5.6	5	TE3.0415.00 G R/L	AFAKX800	AE23X800		
5.29	5.15	5.6	5	TE3.0515.00 G R/L	AE14X800	AF57X800		

**SIMTURN E3 GROOVING INSERTS
FULL RADIUS**

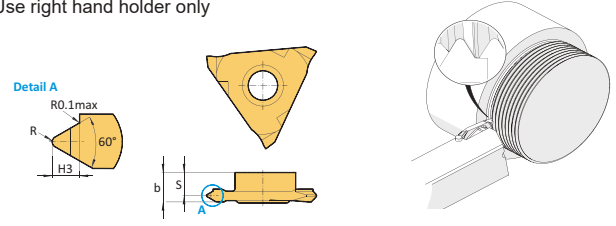
► Full radius for coping and profiling



W -0.04	R	S	t max	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
1	0.5	5.6	2.5	TE3.0100.05 V R/L	AA7WX800	ANCXX800		
1.2	0.6	5.6	3	TE3.0120.06 V R/L	AHPNX800	AK8FX800		
1.5	0.75	5.6	5	TE3.0150.07 V R/L	AT74X800	AT73X800		
1.6	0.8	5.6	5	TE3.0160.08 V R/L	AB6NX800	AJACX800		
1.8	0.9	5.6	5	TE3.0180.09 V R/L	AFP3X800	AKC9X800		
2	1	5.6	5	TE3.0200.10 V R/L	APHHX800	ACYVX800		
2.2	1.1	5.6	5	TE3.0220.11 V R/L	AJOQX800	ANTVX800		
2.5	1.25	5.6	5	TE3.0250.12 V R/L	AAFEX800	AMTKX800		
2.8	1.4	5.6	5	TE3.0280.14 V R/L	ANA5X800	AMFAX800		
3	1.5	5.6	5	TE3.0300.15 V R/L	AB7PX800	AD5JX800		
3.6	1.8	5.6	5	TE3.0360.18 V R/L	AT00X800	AT01X800		
4	2	5.6	5	TE3.0400.20 V R/L	ANK8X800	APDZX800		

**SIMTURN E3 METRIC THREAD TURNING INSERTS
EXTERNAL**

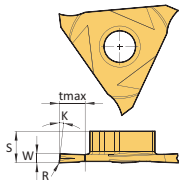
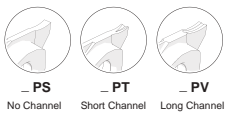
► ISO METRIC Full profile
► Use right hand holder only



Pitch	b	h3	R	S	GEOMETRY	ORDER CODE R/H	1-4 PRICE EACH	5+ PRICE EACH
0.5	5.6	0.31	0.07	4.8	TE3.MT05.02 EM R	AV91X800		
0.75	5.6	0.46	0.11	4.8	TE3.MT07.02 EM R	AQVTX800		
0.8	5.6	0.49	0.12	4.7	TE3.MT08.02 EM R	ASFSX800		
1	5.6	0.61	0.14	4.6	TE3.MT10.02 EM R	AFHKX800		
1.25	5.6	0.77	0.18	4.5	TE3.MT12.02 EM R	ABFQX800		
1.5	5.6	0.92	0.22	4.4	TE3.MT15.02 EM R	AKFX800		
1.75	5.6	1.07	0.25	4.1	TE3.MT17.02 EM R	AHWMX800		
2	5.6	1.23	0.29	4.1	TE3.MT20.02 EM R	ABX6X800		
2.5	5.6	1.53	0.36	3.9	TE3.MT25.02 EM R	ADA1X800		
3	5.6	1.84	0.43	3.8	TE3.MT30.02 EM R	AMUNX800		
3.5	5.6	2.15	0.51	3.5	TE3.MT35.02 EM R	AP36X800		
4	5.6	2.45	0.58	3.6	TE3.MT40.02 EM R	AAAVX800		
5	5.95	3.07	0.72	3.55	TE3.MT50.02 EM R	AB6FX800		
6	6.6	3.68	0.87	3.5	TE3.MT60.02 EM R	AGXMX800		

**SIMTURN E3 PARTING INSERTS
RIGHT HANDED**

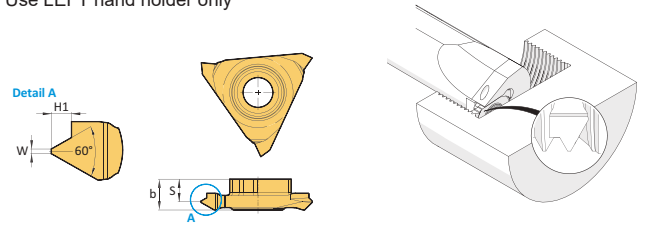
Ground Chip Form Channel



W -0.04	K	R	S	t max	GEOMETRY	ORDER CODE R/H	1-4 PRICE EACH	5+ PRICE EACH
1	6°	0.1	5.6	5	TE3.L100.06 PS R	AN4TX800		
1.6	6°	0.1	5.6	5	TE3.L160.06 PS R	ANFQX800		
1.6	6°	0.1	5.6	5	TE3.L160.06 PT R	ABXUX800		
2	5°	0.1	5.6	5	TE3.L200.05 PS R	AFNCX800		
2	5°	0.1	5.6	5	TE3.L200.05 PT R	ACKHX800		
2	5°	0.1	5.6	5	TE3.L200.05 PV R	AU7HX800		

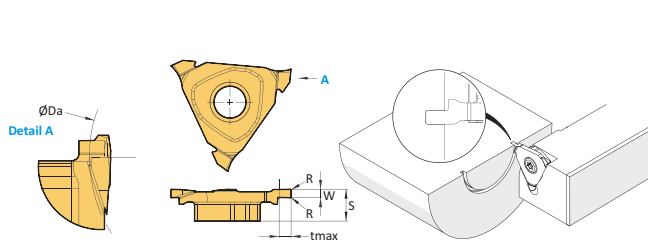
**SIMTURN E3 METRIC THREAD TURNING INSERTS
INTERNAL**

► ISO METRIC Full profile
► Use LEFT hand holder only



Pitch	b	H1	S	W	GEOMETRY	ORDER CODE R/H	1-4 PRICE EACH	5+ PRICE EACH
1	5.6	0.54	4.65	0.12	TE3.MT10.02 IM R	ABMXX800		
1.5	5.6	0.81	4.45	0.19	TE3.MT15.02 IM R	AMJ3X800		
2	5.6	1.08	4.25	0.25	TE3.MT20.02 IM R	AKWMX800		
2.5	5.6	1.35	4.1	0.31	TE3.MT25.02 IM R	AH53X800		
3	5.6	1.62	3.85	0.38	TE3.MT30.02 IM R	ABUEX800		
3.5	5.6	1.89	3.85	0.44	TE3.MT35.02 IM R	AFW4X800		

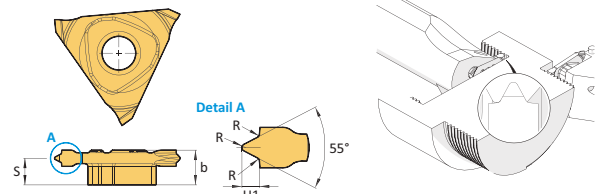
**SIMTURN E3
FACE GROOVING INSERTS**



W -0.05	R	ØDa	t max	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
1.5	0.2	20	2	TE3.R150.020 AG R / L	AF5UX800	AE96X800		
2	0.2	30	3	TE3.R200.020 AG R / L	AFVUX800	ADYQX800		
3	0.2	30	3	TE3.R300.020 AG R / L	ANNMX800	APTHX800		

**SIMTURN E3 WHITWORTH THREAD TURNING INSERTS
INTERNAL / EXTERNAL**

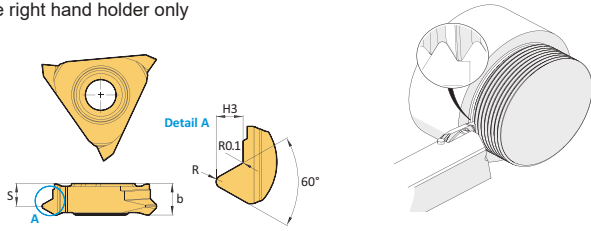
► BSW (Whitworth) Full profile
► Suitable for internal and external threading



TPI	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
11	TE3.BS11.02 MR/L	ANTFX800	ACAFX800		
14	TE3.BS14.02 MR/L	AJNXX800	AHB8X800		
16	TE3.BS16.02 MR/L	ACBAX800	AAEWX800		
19	TE3.BS19.02 MR/L	AJ52X800	AGYGX800		
20	TE3.BS20.02 MR/L	ASCNX800	ASCPX800		
28	TE3.BS28.02 MR/L	ABP6X800	AEMPX800		

**SIMTURN E3 UN THREAD TURNING INSERTS
EXTERNAL**

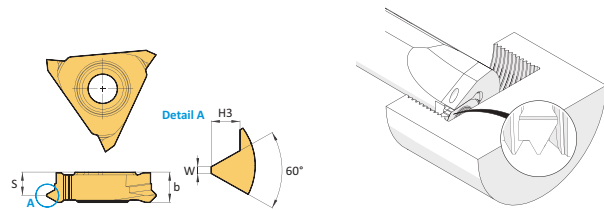
- ▶ UN Full profile
- ▶ Use right hand holder only



TPI	b	h3	R	S	GEOMETRY	ORDER CODE R/H	1-4 PRICE EACH	5+ PRICE EACH
8	5.8	1.95	0.46	4.1	TE3.UN08.02 EM R	AS82X800		
9	5.8	1.73	0.41	4.3	TE3.UN09.02 EM R	ATWPX800		
10	5.8	1.56	0.37	4.4	TE3.UN10.02 EM R	AS84X800		
11	5.8	1.42	0.33	4.5	TE3.UN11.02 EM R	ATWSX800		
12	5.8	1.3	0.31	4.6	TE3.UN12.02 EM R	ATWUX800		
14	5.8	1.11	0.26	4.7	TE3.UN14.02 EM R	AS86X800		
16	5.8	0.97	0.23	4.8	TE3.UN16.02 EM R	AS88X800		
18	5.8	0.87	0.2	4.9	TE3.UN18.02 EM R	AS9AX800		
20	5.8	0.78	0.18	5.0	TE3.UN20.02 EM R	AS9CX800		
24	5.8	0.65	0.15	5.0	TE3.UN24.02 EM R	AS9EX800		
28	5.8	0.56	0.13	5.1	TE3.UN28.02 EM R	AS9GX800		
32	5.8	0.49	0.11	5.2	TE3.UN32.02 EM R	AS9JX800		

**SIMTURN E3 UN THREAD TURNING INSERTS
INTERNAL**

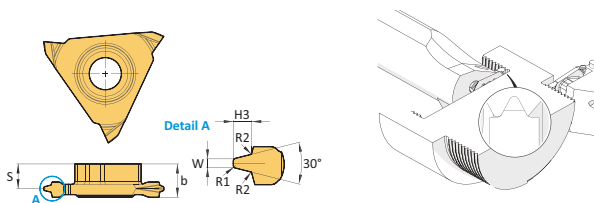
- ▶ UN Full profile
- ▶ Use LEFT hand holder only



TPI	b	H3	S	W	GEOMETRY	ORDER CODE R/H	1-4 PRICE EACH	5+ PRICE EACH
8	5.8	1.72	4.3	0.4	TE3.UN08.02 IM R	ATWWWX800		
9	5.8	1.53	4.5	0.35	TE3.UN09.02 IM R	ATWYX800		
10	5.8	1.37	4.6	0.32	TE3.UN10.02 IM R	ATW0X800		
11	5.8	1.25	4.6	0.29	TE3.UN11.02 IM R	ATW2X800		
12	5.8	1.15	4.7	0.26	TE3.UN12.02 IM R	ATW4X800		

**SIMTURN E3 TRAPEZOIDAL THREAD TURNING INSERTS
INTERNAL / EXTERNAL**

- ▶ Full profile
- ▶ Suitable for internal and external threading



Pitch	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
1.5	TE3.TR15.02 M R/L	AHGVX800	AKYYX800		
2	TE3.TR20.02 M R/L	AGE5X800	AP3SX800		
3	TE3.TR30.02 M R/L	AJJAX800	AEXMX800		
4	TE3.TR40.02 M R/L	AG5KX800	ADDWX800		
5	TE3.TR50.02 M R/L	ABJQX800	ABC BX800		
6	TE3.TR60.02 M R/L	AE29X800	AD4UX800		

**SIMTURN E3 NPT THREAD TURNING INSERTS
INTERNAL / EXTERNAL**

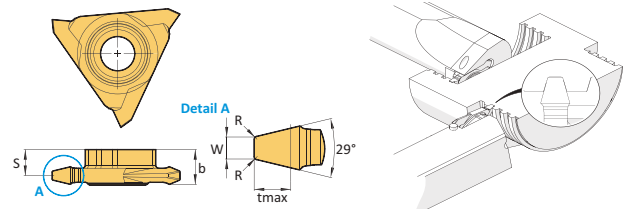
- ▶ NPT Full profile
- ▶ Suitable for internal and external threading



TPI	b	H3	S	W	GEOMETRY	ORDER CODE R/H	1-4 PRICE EACH	5+ PRICE EACH
14	5.8	1.45	4.7	0.07	TE3.NP14.02 MR	AQA4X800		
18	5.8	1.13	4.9	0.05	TE3.NP18.02 MR	AQA6X800		
27	5.8	0.75	5.1	0.04	TE3.NP27.02 MR	AQA9X800		

**SIMTURN E3 ACME THREAD TURNING INSERTS
INTERNAL / EXTERNAL**

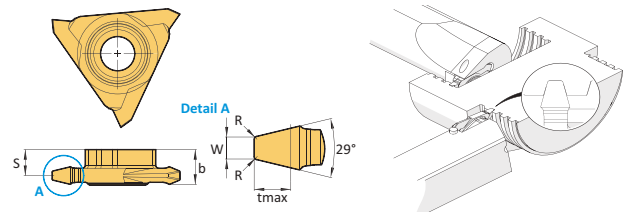
- ▶ ACME Partial profile
- ▶ Suitable for internal and external threading



TPI	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
4	TE3.AC04.01 MR/L	ANK1X800	AEUBX800		
5	TE3.AC05.01 MR/L	APD5X800	ANBBX800		
6	TE3.AC06.01 MR/L	AC7CX800	AHJKX800		
8	TE3.AC08.01 MR/L	AMJCX800	AA6WX800		
10	TE3.AC10.01 MR/L	AFH3X800	AMHDX800		
12	TE3.AC12.01 MR/L	AKBDX800	ACM7X800		
14	TE3.AC14.01 MR/L	ANWBX800	AHFTX800		
16	TE3.AC16.01 MR/L	AACKX800	AH4VX800		

**SIMTURN E3 STUB ACME THREAD TURNING INSERTS
INTERNAL / EXTERNAL**

- ▶ STUB ACME Partial profile
- ▶ Suitable for internal and external threading



TPI	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
4	TE3.SA04.01	AVK4X800	AVK3X800		
5	TE3.SA05.01	AVK5X800	AVK6X800		
6	TE3.SA06.01	AVF7X800	AVF5X800		
8	TE3.SA08.01	AVF9X800	AVF8X800		
10	TE3.SA10.01	AVGBX800	AVGAX800		
12	TE3.SA12.01	AVGDX800	AVGCX800		
14	TE3.SA14.01	AVK8X800	AVK7X800		
16	TE3.SA16.01	AVMAX800	AVK9X800		