

# simturnK2

**The tool system Simturn K2 was designed to meet highest expectations in small part external machining.**

The system provides two-edged indexable cutting inserts and square shank sizes from 10-16mm. The system is ideal for sliding head lathes or small fixed head lathes.

All inserts are precision ground for high precision machining and one tool holder can be used for various applications including: turning, grooving, profiling, threading and parting off.

### ADVANTAGES

- Ideal for sliding head lathes or small parts.
- One tool holder for multiple applications.
- High precision ground inserts provide exceptional accuracy and surface finish.

## SMALL PART HIGH PRECISION EXTERNAL MACHINING

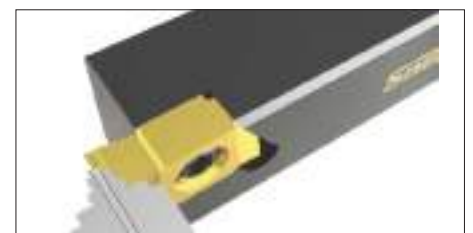
### MAIN APPLICATIONS

- ▶ Simturn K2 offers versatility with high precision.
- ▶ The compact design of the tool holder is ideal for sliding head lathes as the insert cutting edge is in line with the holder.
- ▶ One holder can be used for several applications.



Grooving & Profiling

- ▶ 1mm, 1.5mm or 2mm wide inserts for grooving or profiling



Custom Solutions

- ▶ Inserts made to your specification



Turning

- ▶ Inserts available in 0.2-0.4mm corner radius with 59° relief angle, ideal for profile turning



Threading

- ▶ Metric ISO full profile thread turning inserts available from 0.25-3.0mm pitch

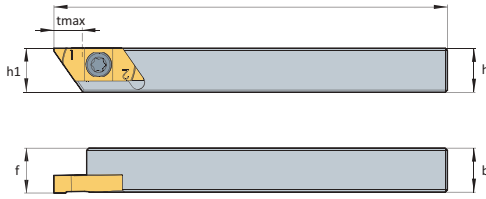


Parting Off

- ▶ 1mm, 1.5mm or 2mm wide inserts for parting off up to 7mm deep

**SIMTURN K2 EXTERNAL TOOL HOLDER  
STRAIGHT**

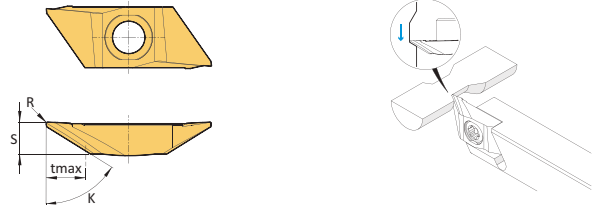
► One holder can take all Simturn K2 inserts



h	b	L1	f	h1	t <sub>max</sub>	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	PRICE
10	10	140	10.2	10	7	TK2.G.1010.A.14.04 R/L	AYGQ	AYGS	
12	12	140	12.2	12	7	TK2.G.1212.A.14.04 R/L	AYGK	AYGM	
16	16	140	16.2	16	7	TK2.G.1616.A.14.04 R/L	AYGF	AYGG	

**SIMTURN K2 BACK TURNING INSERT  
59° APPROACH ANGLE**

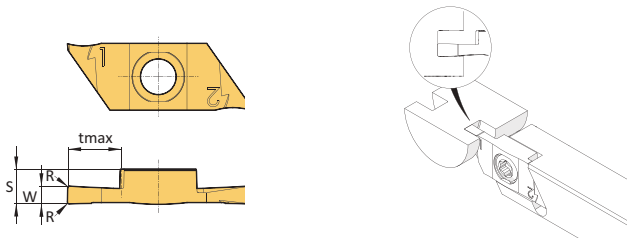
► X8 Gradium ground coated grade  
► Suitable for turning / profiling



K	R	S	t <sub>max</sub>	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
59°	0.2	3.94	5	TK2.G.059.02.05.20 YZR/L	AYFHX800	AYFJX800		
59°	0.4	3.94	5	TK2.G.059.02.05.40 YZR/L	AYFMX800	AYFKX800		

**SIMTURN K2 GROOVING & PROFILING INSERT  
SHARP CORNER**

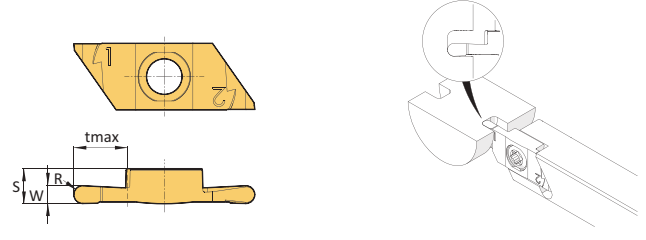
► X8 Gradium ground coated grade  
► Suitable for grooving / profiling



W (±0.05)	R	S	t <sub>max</sub>	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
0.5	0.05	3.8	2.5	TK2.G.050.005.025 NS R/L	AYHAX800	AYG9X800		
0.75	0.05	3.8	3.75	TK2.G.075.005.038 NS R/L	AYG7X800	AYG8X800		
1	0.05	3.8	5	TK2.G.100.005.050 NS R/L	AYG6X800	AYG5X800		
1.5	0.2	3.85	4.5	TK2.G.150.020.045 NS R/L	AYG4X800	AYG3X800		
2	0.2	3.9	6	TK2.G.200.020.060 NS R/L	AYG2X800	AYG1X800		
2.5	0.2	3.9	7	TK2.G.250.020.070 NS R/L	AYG0X800	AYGZX800		
3	0.2	3.9	7	TK2.G.300.020.070 NS R/L	AYGYX800	AYGXX800		

**SIMTURN K2 GROOVING & PROFILING INSERT  
FULL RADIUS**

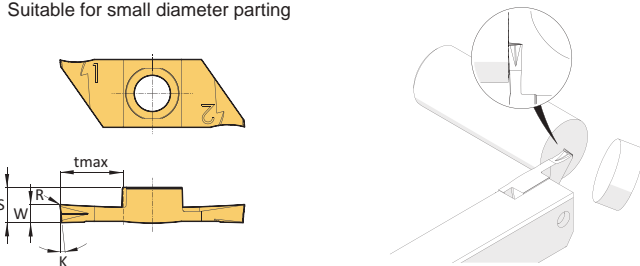
► X8 Gradium ground coated grade  
► Suitable for grooving / profiling / copying



W (±0.05)	R	S	t <sub>max</sub>	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
1	0.5	3.87	3	TK2.G.100.050.030 VS R/L	AYH0X800	AYHZX800		
1.2	0.6	3.92	3.6	TK2.G.120.060.036 VS R/L	AYHYX800	AYHXX800		
1.6	0.8	3.92	4.8	TK2.G.160.080.048 VS R/L	AYHVX800	AYHWX800		
2	1	3.92	6	TK2.G.200.100.060 VS R/L	AYHTX800	AYHUX800		

**SIMTURN K2 PARTING INSERT  
RIGHT or LEFT HANDED**

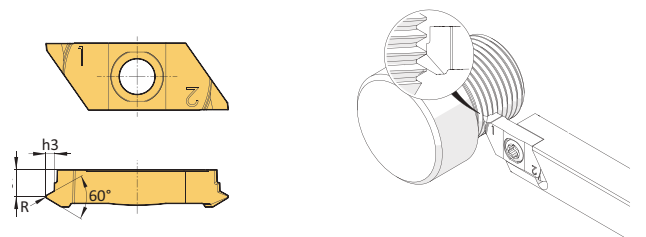
► X8 Gradium ground coated grade  
► Suitable for small diameter parting



W (±0.05)	K	R	S	t <sub>max</sub>	GEOMETRY	ORDER CODE R/H	ORDER CODE L/H	1-4 PRICE EACH	5+ PRICE EACH
1	6°	0.05	3.8	4	TK2.G.R100.06.005 PT R/L	AYJKX800	A2S0X800		
1	12°	0.05	3.8	4	TK2.G.R100.12.005 PT R	AYJSX800	-		
1.5	6°	0.05	3.85	6	TK2.G.R150.06.005 PT R/L	AYJMX800	A2S1X800		
1.5	12°	0.05	3.85	6	TK2.G.R150.12.005 PT R	AYJTX800	-		
2	6°	0.05	3.9	7	TK2.G.R200.06.005 PT R	AYJNX800	-		
2	12°	0.05	3.9	7	TK2.G.R200.12.005 PT R	AYJUX800	-		

**SIMTURN K2 ISO METRIC THREADING INSERT  
EXTERNAL FULL PROFILE**

► X8 Gradium ground coated grade



Pitch	h3	R	S	GEOMETRY	ORDER CODE R/H	1-4 PRICE EACH	5+ PRICE EACH
0.25	0.15	0.04	3.6	TK2.G.M025.02 EMU R	AYM5X800		
0.35	0.22	0.05	3.5	TK2.G.M035.02 EMU R	AYM7X800		
0.4	0.25	0.06	3.5	TK2.G.M040.02 EMU R	AYM9X800		
0.45	0.28	0.07	3.5	TK2.G.M045.02 EMU R	AYNBX800		
0.5	0.31	0.07	3.4	TK2.G.M050.02 EMU R	AYNDX800		
0.7	0.43	0.1	3.3	TK2.G.M070.02 EMU R	AYNEX800		
0.75	0.46	0.11	3.3	TK2.G.M075.02 EMU R	AYNHX800		
0.8	0.49	0.11	3.3	TK2.G.M080.02 EMU R	AYNKX800		
1	0.61	0.12	3.2	TK2.G.M100.02 EMU R	AYNXX800		
1.25	0.77	0.15	3.1	TK2.G.M125.02 EMU R	AYNQX800		
1.5	0.92	0.2	3	TK2.G.M150.02 EMU R	AYNTX800		
1.75	1.07	0.25	2.9	TK2.G.M175.02 EMU R	AYNVX800		
2	1.23	0.25	2.8	TK2.G.M200.02 EMU R	AYNXX800		
2.5	1.53	0.35	2.6	TK2.G.M250.02 EMU R	AYNZX800		
3	1.84	0.4	2.4	TK2.G.M300.02 EMU R	AYN1X800		