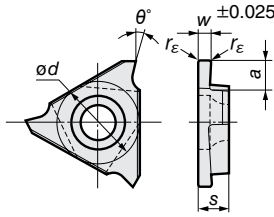


# TGA Type

## Insert



Above figures show right hand tools.

Grade	Cutting Edge	θ°	
Coated Carbide	AC530U	Honing	15°
Carbide	H1	Sharp	25°
Coated Cermet	T3000Z	Honing	15°
Cermet	T1500A	Sharp	10°
	T1200A	Sharp	10°
SUMIBORON	BN2000	Negative Land	5°
	BN250	Negative Land	5°
SUMIDIA	DA2200	Sharp	15°

\* For rake angle when fitted on the holder, refer to page F5.

Cat. No. <small>(Add E to the end of the Cat. No. for T1500A and T1200A grades)</small>	Coated Carbide		Carbide		Coated Cermet		Cermet				SUMIBORON		SUMIDIA	Grooving Width (mm) w	Max. Grooving Depth (mm)		Dimensions (mm)			* Group No.		
	AC530U	H1	T3000Z	T1500A	T1200A	BN2000	BN250	DA2200	W	External	Internal	a	re		od	s						
	R	L	R	L	R	L	R	L	R	L	R	L	R	L	W	External	Internal	a	re		od	s
<b>TGA R/L3033(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	0.33	0.8	0.5	1.0	0.05	9.525	3.18	①
<b>TGA R/L3050(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	0.50	1.2	0.8	1.4				
<b>TGA R/L3075(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	0.75	2.0	1.5	2.5	0.1 0.2 for T1500A/ T1200A	9.525	3.18	①
<b>TGA R/L3095(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	0.95							
<b>TGA R/L3100(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.00							
<b>TGA R/L3110(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.10							
<b>TGA R/L3125(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.25							
<b>TGA R/L3135(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.35							
<b>TGA R/L3145(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.45							
<b>TGA R/L3150(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.50							
<b>TGA R/L3165(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.65							
<b>TGA R/L3175(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.75							
<b>TGA R/L3185(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.85							
<b>TGA R/L3200(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.00	2.5	2.0	3.0	0.1 0.2 for T1500A/ T1200A	9.525	3.18	①
<b>TGA R/L3220(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.20							
<b>TGA R/L3230(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.30							
<b>TGA R/L3250(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.50							
<b>TGA R/L3265(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.65							
<b>TGA R/L3270(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.70							
<b>TGA R/L3280(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.80							
<b>TGA R/L4125(E)</b>	●	●	●	●	●	●	●	●	▲	▲	●	▲	●	—	1.25							
<b>TGA R/L4145(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.45							
<b>TGA R/L4150(E)</b>	●	●	●	●	●	●	●	●	▲	▲	●	▲	●	—	1.50	3.5	2.5	3.9	0.2 * 2	12.70	4.76	③
<b>TGA R/L4165(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.65							
<b>TGA R/L4175(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.75							
<b>TGA R/L4185(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	1.85							
<b>TGA R/L4200(E)</b>	●	●	●	●	●	●	●	●	▲	▲	●	▲	●	—	2.00							
<b>TGA R/L4220(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.20							
<b>TGA R/L4230(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.30							
<b>TGA R/L4250(E)</b>	●	●	●	●	●	●	●	●	▲	▲	●	▲	●	—	2.50							
<b>TGA R/L4265(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.65	5.0 * 1	2.5	5.4 * 1	0.3 * 2	12.70	4.76	④
<b>TGA R/L4270(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.70							
<b>TGA R/L4280(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	2.80							
<b>TGA R/L4300(E)</b>	●	●	●	●	●	●	●	●	▲	▲	●	▲	●	—	3.00							
<b>TGA R/L4320(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	3.20							
<b>TGA R/L4330(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	3.30							
<b>TGA R/L4350(E)</b>	●	●	●	●	●	●	●	●	▲	▲	●	▲	●	—	3.50							
<b>TGA R/L4370(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	3.70							
<b>TGA R/L4390(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	3.90							
<b>TGA R/L4400(E)</b>	●	●	●	●	●	●	●	●	▲	▲	●	▲	●	—	4.00							
<b>TGA R/L4410(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	4.10							
<b>TGA R/L4420(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	4.20							
<b>TGA R/L4430(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	4.30							
<b>TGA R/L4440(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	4.40							
<b>TGA R/L4450(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	4.50							
<b>TGA R/L4480(E)</b>	●	●	●	●	●	●	●	●	▲	▲	—	—	—	—	4.80							

\* Refer to pages F4, F5 for applicable holders GWC, GWCS and GWCI types. Select applicable inserts for the holders by using matching group numbers.

\* 1: SUMIBORON, SUMIDIA is a = 4.4 (4.0)  
\* 2: SUMIBORON is re = 0.2, SUMIDIA is re = 0.1