

EAS4CUT

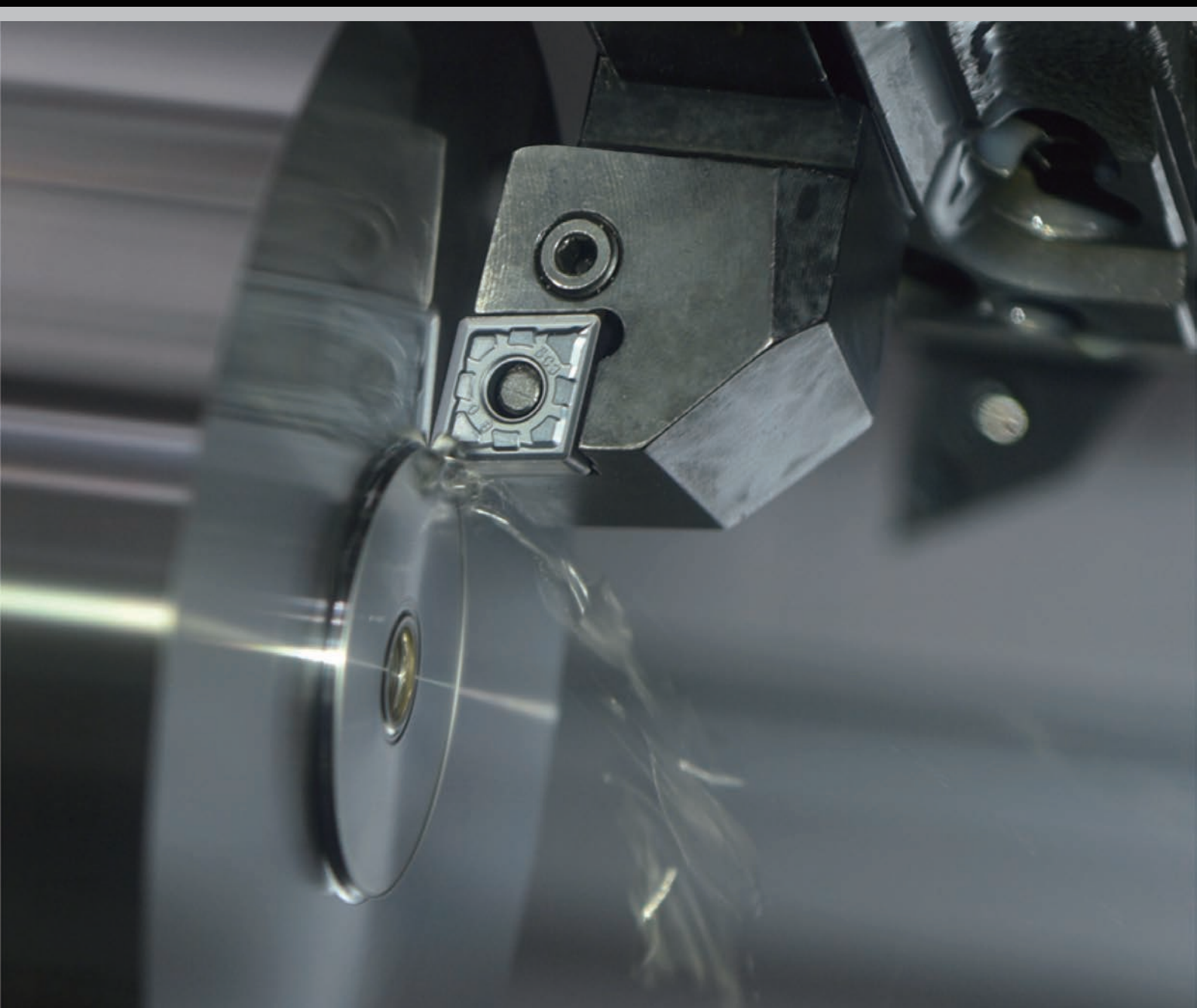
December 2024

EH511X

**NEW
PRODUCT!**

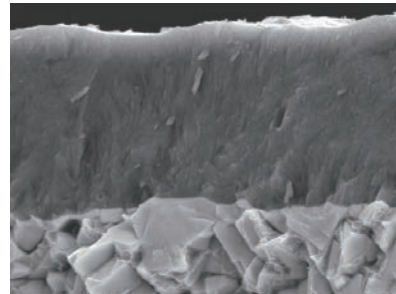
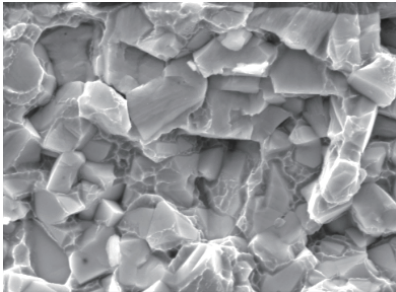
General machining grade

Wide application for P/M/S and other materials



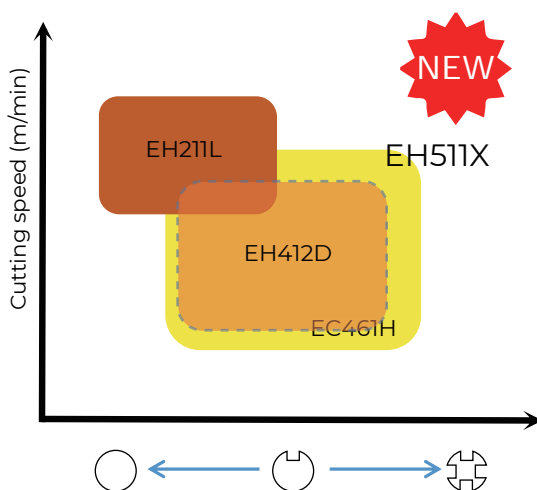
Grade Introduction

New PVD coating with new super-micro crystal carbide substrate can achieve stable machining, excellent performance in machining stainless steel, steel, heat-resistant alloy and other materials.




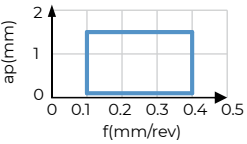
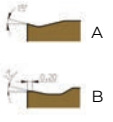

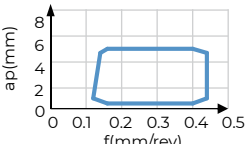
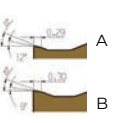

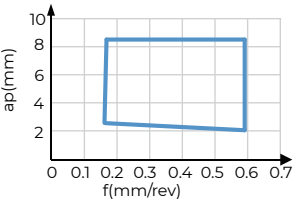
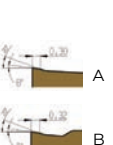

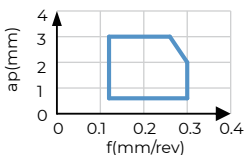
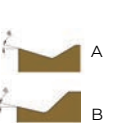

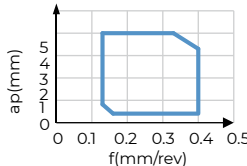
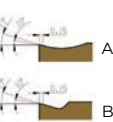

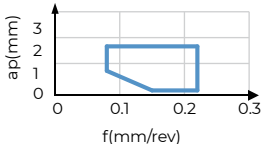
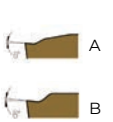

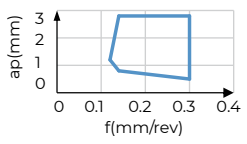
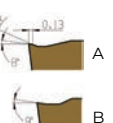
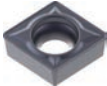
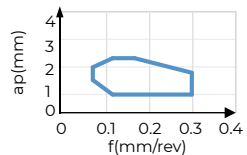
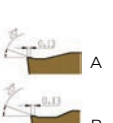
- New super-micro crystal carbide substrate, even crystal organizations, good performance with high strength and anti-crack extension ability
- Excellent wear resistance and chipping resistance.
- For continuous and interrupted turning.
- New PVD coating, with high anti-oxidation, good wear resistance, high hot hardness, and stable tool life.
- Suitable for machining stainless steel, steel and heat-resistant alloy.

Grade Application Range



Applications	Finishing ← → Roughing				
	P01	P10	P20	P30	P40
P			EH412D	EH511X	NEW
ISO	M01	M10	M20	M30	M40
M		EH211L	EH412D	EH511X	NEW
ISO	S01	S10	S20	S30	S40
S		EH211L	EH412D	EH511X	NEW


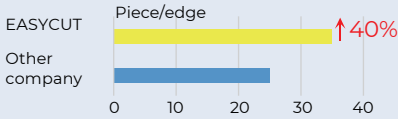
Overview of turning insert geometries


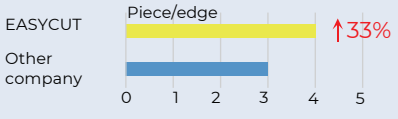
Applications		Chip breaker	Features	Chip breaking range	Cross section
Negative	Finishing	DW3 	1st choice for stainless steel finish turning Zero edge width design, reduces cutting forces and built up edge, for better surface finish. Good chip breaking at low feeds and depth of cut.		
	Medium machining	DE4 	1st choice for stainless steel medium turning Sharp edge design with reduced cutting forces, offers good chip breaking and chip evacuation results for a wide range of feeds and depths of cut.		
	Roughing	DE5 	Chip breaker for stainless steel and heat resistant alloy rough turning Large chip breaker design offers good chip control, smooth chip evacuation, and high metal removal rates.		
	Light cutting	LS4 	Recommended for heat resistant alloy light turning Suitable for heat resistant alloy, Ti-alloy. Sharp and wavy cutting edge can get good surface finish and good chip breaking results.		
	Medium machining	LE4 	1st choice for heat resistant alloy medium turning Large rake angle and narrow edge width for smooth cutting action, suitable for soft steel turning as well.		
Positive	Finishing	HW2 	Recommended for steel and stainless finish turning Positive rake angle designed to reduce built up edge and for better surface finish and longer tool life. Mainly used in steel turning and stainless steel turning.		
	Semi-finishing	HE3 	1st choice for steel and stainless steel semi-finish turning The edge is designed smooth cutting. The sharp edge reduces built up edge and offers a wider chip breaking range.		
	Roughing	AE3 	Universal geometry for steel, stainless steel and cast iron medium and medium rough turning Simple and durable chip breaker design, offers versatility.		


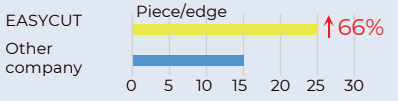
Recommended cutting speed for different materials


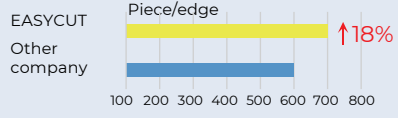
Material						EH511X		
ISO	Material classification			Brinell hardness (HB)	Tensile strength (N/mm ²)	f (mm/rev)		
						0.1	0.3	0.5
P	Unalloyed steel	C≤0.25%	Annealed	125	428	220	210	
		0.25<C≤0.55%	Annealed	190	639	170	150	
		0.25<C≤0.55%	Heat-treated	210	708	140	120	
		C>0.55%	Annealed	190	639	130	120	
		C>0.55%	Heat-treated	300	1013			
		Free cutting steel (short-chip)	Annealed	220	745	190	170	
	Low-alloyed steel	Annealed		175	591	130	110	
		Heat-treated		300	1013			
		Heat-treated		380	1282			
		Heat-treated		430	1477			
	High-alloyed steel and high-alloyed tool steel	Annealed		200	675	120	80	
		Hardened and tempered		300	1013			
		Hardened and tempered		400	1361			
	Stainless steel	Ferritic/martensitic, annealed		200	675	145	130	105
		Martensitic, heat-treated		330	1114	105	85	75
M	Stainless steel	Austenitic, quench hardened		200	675	180	130	85
		Austenitic, precipitation hardened (PH)		300	1013	105	90	
		Austenitic/ferritic, duplex		230	778	115	100	60
S	Heat-resistant alloys	Fe based	Annealed	200	680	40	25	
			Hardened	280	940	30	20	
		Ni or Co based	Annealed	250	840	30	25	
			Hardened	350	1180	30	20	
			Cast	320	1080	30	20	
	Titanium alloys	Pure Titanium		200	680			
		α and β alloys, hardened		375	1260			
		β alloys		410	1400			
	Tungsten alloys			300	1010			
	Molybdenum alloys			300	1010			

Success stories

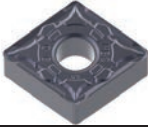


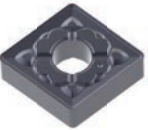
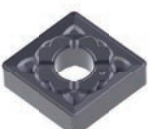
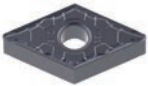
Insert	CNMG 120404E-DW3 EH511X
Workpiece	Pump cover 
Material	17-4
Operation	Finish face turning
Vc	40-220 m/min
f	0.08 mm/rev
ap	0.3 mm
Coolant	Emulsion
Result	 <p>Time of changing tools is reduced. Turning efficiency is enhanced. Tool cost is decreased. Tool life is 40% longer than the other company.</p>

Insert	CNMG 120412E-LE4 EH511X
Workpiece	Gourd shaped parts 
Material	316L
Operation	Rough external and face turning
Vc	120 m/min
f	0.3 mm/rev
ap	1.5 mm
Coolant	Emulsion
Result	 <p>Time of changing tools is reduced. Turning efficiency is enhanced. Tool cost is decreased. Tool life is 33% longer</p>

Insert	CCMT 120408E-HE3 EH511X
Workpiece	Flange 
Material	304
Operation	Finish external turning
Vc	150 m/min
f	0.12 mm/rev
ap	0.8 mm
Coolant	Emulsion
Result	 <p>Time of changing tools is reduced. Turning efficiency is enhanced. Tool cost is decreased. Tool life is 66% longer.</p>

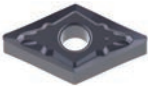


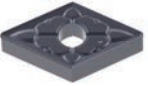



Insert	SCMT 120408E-HE3 EH511X
Workpiece	Brake disc 
Material	12Cr13
Operation	Finish face turning
Vc	145 m/min
f	0.1 mm/rev
ap	0.3 mm
Coolant	Dry
Result	 <p>Tool life is 18% longer than other company.</p>

Negative insert list

Insert	Product code	RE (mm)	f (mm/rev)	ap (mm)	Size(mm)		Grade
					IC	S	EH511X
	CNMG 120404E-DW3	0.4	0.05-0.15	0.26-3.2	12.7	4.76	●
	CNMG 120408E-DW3	0.8	0.10-0.30	0.52-3.2	12.7	4.76	●
	CNMG 120404E-LS4	0.4	0.12-0.25	0.60-3.0	12.7	4.76	●
	CNMG 120408E-LS4	0.8	0.15-0.30	0.80-3.0	12.7	4.76	●
	CNMG 120404E-LE4	0.4	0.08-0.22	0.40-4.3	12.7	4.76	●
	CNMG 120408E-LE4	0.8	0.15-0.44	0.80-4.3	12.7	4.76	●
	CNMG 120412E-LE4	1.2	0.23-0.66	1.20-4.3	12.7	4.76	●
	CNMG 160612E-LE4	1.2	0.23-0.66	1.20-5.3	15.875	6.35	●
	CNMG 160616E-LE4	1.6	0.30-0.88	1.60-5.3	15.875	6.35	●
	CNMG 190612E-LE4	1.2	0.23-0.66	1.20-6.4	19.05	6.35	●
	CNMG 190616E-LE4	1.6	0.30-0.88	1.60-6.4	19.05	6.35	●
	CNMG 120404E-DE4	0.4	0.08-0.22	0.32-4.3	12.7	4.76	●
	CNMG 120408E-DE4	0.8	0.15-0.44	0.64-4.3	12.7	4.76	●
	CNMG 120412E-DE4	1.2	0.23-0.66	0.96-4.3	12.7	4.76	●
	CNMG 120416E-DE4	1.6	0.30-0.88	1.28-4.3	12.7	4.76	○
	CNMG 160608E-DE4	0.8	0.15-0.44	0.64-5.3	15.875	6.35	●
	CNMG 160612E-DE4	1.2	0.23-0.66	0.96-5.3	15.875	6.35	○
	CNMG 190608E-DE4	0.8	0.15-0.44	0.64-6.4	19.05	6.35	●
	CNMG 190612E-DE4	1.2	0.23-0.66	0.96-6.4	19.05	6.35	●
	CNMG 120408E-DE5	0.8	0.20-0.60	1.20-6.4	12.7	4.76	●
	CNMG 120412E-DE5	1.2	0.30-0.90	1.80-6.4	12.7	4.76	●
	CNMG 160612E-DE5	1.2	0.30-0.90	1.80-8.1	15.875	6.35	●
	CNMG 160616E-DE5	1.6	0.40-1.20	2.40-8.1	15.875	6.35	○
	CNMG 190612E-DE5	1.2	0.30-0.90	1.80-9.7	19.05	6.35	●
	CNMG 190616E-DE5	1.6	0.40-1.20	2.40-9.7	19.05	6.35	●
	DNMG 150404E-DW3	0.4	0.05-0.15	0.26-2.9	12.7	4.76	●
	DNMG 150408E-DW3	0.8	0.10-0.30	0.52-2.9	12.7	4.76	●
	DNMG 150604E-DW3	0.4	0.05-0.15	0.26-2.9	12.7	6.35	●
	DNMG 150608E-DW3	0.8	0.10-0.30	0.52-2.9	12.7	6.35	●

● Stocked ○ Non-stocked

Negative insert list

Insert	Product code	RE (mm)	f (mm/rev)	ap (mm)	Size(mm)		Grade
					IC	S	
	DNMG 110408E-LS4	0.8	0.12-0.30	0.80-2.5	9.525	4.76	○
	DNMG 150404E-LS4	0.4	0.12-0.25	0.60-2.5	12.7	4.76	○
	DNMG 150408E-LS4	0.8	0.12-0.30	0.80-2.5	12.7	4.76	●
	DNMG 150604E-LS4	0.4	0.12-0.25	0.60-2.5	12.7	6.35	○
	DNMG 150608E-LS4	0.8	0.12-0.30	0.80-2.5	12.7	6.35	●
	DNMG 150404E-LE4	0.4	0.08-0.22	0.40-3.9	12.7	4.76	●
	DNMG 150408E-LE4	0.8	0.15-0.44	0.80-3.9	12.7	4.76	●
	DNMG 150412E-LE4	1.2	0.23-0.66	1.20-3.9	12.7	4.76	●
	DNMG 150604E-LE4	0.4	0.08-0.22	0.40-3.9	12.7	6.35	●
	DNMG 150608E-LE4	0.8	0.15-0.44	0.80-3.9	12.7	6.35	●
	DNMG 150612E-LE4	1.2	0.23-0.66	1.20-3.9	12.7	6.35	●
	DNMG 110404E-DE4	0.4	0.08-0.22	0.32-2.9	9.525	4.76	●
	DNMG 110408E-DE4	0.8	0.15-0.44	0.64-2.9	9.525	4.76	●
	DNMG 150404E-DE4	0.4	0.08-0.22	0.32-3.9	12.7	4.76	●
	DNMG 150408E-DE4	0.8	0.15-0.44	0.64-3.9	12.7	4.76	●
	DNMG 150412E-DE4	1.2	0.23-0.66	0.96-3.9	12.7	4.76	●
	DNMG 150604E-DE4	0.4	0.08-0.22	0.32-3.9	12.7	6.35	●
	DNMG 150608E-DE4	0.8	0.15-0.44	0.64-3.9	12.7	6.35	●
	DNMG 150612E-DE4	1.2	0.23-0.66	0.96-3.9	12.7	6.35	●
	DNMG 150408E-DE5	0.8	0.20-0.60	1.20-5.4	12.7	4.76	●
	DNMG 150412E-DE5	1.2	0.30-0.90	1.80-5.4	12.7	4.76	○
	DNMG 150608E-DE5	0.8	0.20-0.60	1.20-5.4	12.7	6.35	●
	DNMG 150612E-DE5	1.2	0.30-0.90	1.80-5.4	12.7	6.35	●
	SNMG 120404E-DW3	0.4	0.05-0.15	0.26-3.2	12.7	4.76	●
	SNMG 120408E-DW3	0.8	0.10-0.30	0.52-3.2	12.7	4.76	●
	SNMG 120404E-LS4	0.4	0.12-0.25	0.60-3.0	12.7	4.76	○
	SNMG 120408E-LS4	0.8	0.15-0.30	0.80-3.0	12.7	4.76	●
	SNMG 120412E-LS4	1.2	0.18-0.35	1.00-3.0	12.7	4.76	●
	SNMG 120408E-LE4	0.8	0.15-0.44	0.80-4.2	12.7	4.76	●
	SNMG 120412E-LE4	1.2	0.23-0.66	1.20-4.2	12.7	4.76	●
	SNMG 150612E-LE4	1.2	0.23-0.66	1.20-5.2	15.875	6.35	●
	SNMG 150616E-LE4	1.6	0.30-0.88	1.60-5.2	15.875	6.35	○
	SNMG 190612E-LE4	1.2	0.23-0.66	1.20-6.3	19.05	6.35	●


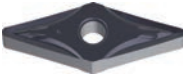







● Stocked ○ Non-stocked

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Insert	Product code	RE (mm)	f (mm/rev)	ap (mm)	Size(mm)		Grade
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	SNMG 120404E-DE4	0.4	0.08-0.22	0.32-4.2	12.7	4.76	●
	SNMG 120408E-DE4	0.8	0.15-0.44	0.64-4.2	12.7	4.76	●
	SNMG 120412E-DE4	1.2	0.23-0.66	0.96-4.2	12.7	4.76	●
	SNMG 150612E-DE4	1.2	0.23-0.66	0.96-5.2	15.875	6.35	●
	SNMG 150616E-DE4	1.6	0.30-0.88	1.28-5.2	15.875	6.35	●
	SNMG 190612E-DE4	1.2	0.23-0.66	0.96-6.3	19.05	6.35	●
	SNMG 190616E-DE4	1.6	0.30-0.88	1.28-6.3	19.05	6.35	●
	SNMG 120408E-DE5	0.8	0.20-0.60	1.20-6.4	12.7	4.76	●
	SNMG 120412E-DE5	1.2	0.30-0.90	1.80-6.4	12.7	4.76	●
	SNMG 150612E-DE5	1.2	0.30-0.90	1.80-7.9	15.875	6.35	●
	SNMG 150616E-DE5	1.6	0.40-1.20	2.40-7.9	15.875	6.35	●
	SNMG 190612E-DE5	1.2	0.30-0.90	1.80-9.5	19.05	6.35	●
	SNMG 190616E-DE5	1.6	0.40-1.20	2.40-9.5	19.05	6.35	●
	TNMG 160404E-DW3	0.4	0.05-0.15	0.26-3.1	9.525	4.76	●
	TNMG 160408E-DW3	0.8	0.10-0.30	0.52-3.1	9.525	4.76	●
	TNMG 160404E-LS4	0.4	0.12-0.25	0.60-3.0	9.525	4.76	○
	TNMG 160408E-LS4	0.8	0.15-0.30	0.80-3.0	9.525	4.76	●
	TNMG 160412E-LS4	1.2	0.18-0.30	1.00-3.0	9.525	4.76	●
	TNMG 160404E-LE4	0.4	0.08-0.22	0.40-4.1	9.525	4.76	●
	TNMG 160408E-LE4	0.8	0.15-0.44	0.80-4.1	9.525	4.76	●
	TNMG 160412E-LE4	1.2	0.23-0.66	1.20-4.1	9.525	4.76	●
	TNMG 160404E-DE4	0.4	0.08-0.22	0.32-4.1	9.525	4.76	●
	TNMG 160408E-DE4	0.8	0.15-0.44	0.64-4.1	9.525	4.76	●
	TNMG 160412E-DE4	1.2	0.23-0.66	0.96-4.1	9.525	4.76	●
	TNMG 220408E-DE4	0.8	0.15-0.44	0.64-4.9	12.7	4.76	●
	TNMG 220412E-DE4	1.2	0.23-0.66	0.96-4.9	12.7	4.76	●
	TNMG 160408E-DE5	0.8	0.20-0.60	1.20-5.8	9.525	4.76	●
	TNMG 160412E-DE5	1.2	0.30-0.90	1.80-5.8	9.525	4.76	●
	TNMG 220408E-DE5	0.8	0.20-0.60	1.20-6.6	12.7	4.76	○
	TNMG 220412E-DE5	1.2	0.30-0.90	1.80-6.6	12.7	4.76	○

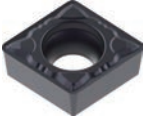
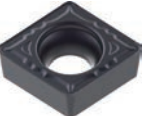
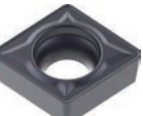
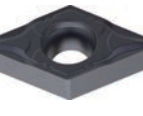
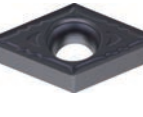
● Stocked ○ Non-stocked

Negative insert list

Insert	Product code	RE (mm)	f (mm/rev)	ap (mm)	Size(mm)		Grade
					IC	S	EH511X
	VNMG 160404E-DW3	0.4	0.05-0.15	0.26-2.1	9.525	4.76	●
	VNMG 160408E-DW3	0.8	0.10-0.30	0.52-2.1	9.525	4.76	●
	VNMG 160404E-LS4	0.4	0.10-0.20	0.60-2.5	9.525	4.76	○
	VNMG 160408E-LS4	0.8	0.12-0.25	0.80-2.5	9.525	4.76	●
	VNMG 160404E-LE4	0.4	0.08-0.22	0.40-3.3	9.525	4.76	●
	VNMG 160408E-LE4	0.8	0.15-0.44	0.80-3.3	9.525	4.76	●
	VNMG 160412E-LE4	1.2	0.23-0.66	1.20-3.3	9.525	4.76	●
	VNMG 160404E-DE4	0.4	0.08-0.22	0.32-3.3	9.525	4.76	●
	VNMG 160408E-DE4	0.8	0.15-0.44	0.64-3.3	9.525	4.76	●
	WNMG 080404E-DW3	0.4	0.05-0.15	0.26-2.2	12.7	4.76	●
	WNMG 080408E-DW3	0.8	0.10-0.30	0.52-2.2	12.7	4.76	●
	WNMG 060404E-LS4	0.4	0.12-0.25	0.60-2.5	9.525	4.76	○
	WNMG 060408E-LS4	0.8	0.15-0.25	0.80-2.5	9.525	4.76	●
	WNMG 080404E-LS4	0.4	0.12-0.25	0.60-3.0	12.7	4.76	○
	WNMG 080408E-LS4	0.8	0.15-0.25	0.80-3.0	12.7	4.76	●
	WNMG 080412E-LS4	1.2	0.18-0.30	1.00-3.0	12.7	4.76	●
	WNMG 080404E-LE4	0.4	0.08-0.22	0.40-2.9	12.7	4.76	●
	WNMG 080408E-LE4	0.8	0.15-0.44	0.80-2.9	12.7	4.76	●
	WNMG 080412E-LE4	1.2	0.23-0.66	1.20-2.9	12.7	4.76	●
	WNMG 060408E-DE4	0.8	0.15-0.44	0.64-2.1	9.525	4.76	●
	WNMG 060412E-DE4	1.2	0.23-0.66	0.96-2.1	9.525	4.76	●
	WNMG 080404E-DE4	0.4	0.08-0.22	0.32-2.9	12.7	4.76	●
	WNMG 080408E-DE4	0.8	0.15-0.44	0.64-2.9	12.7	4.76	●
	WNMG 080412E-DE4	1.2	0.23-0.66	0.96-2.9	12.7	4.76	●
	WNMG 060408E-DE5	0.8	0.20-0.60	1.20-3.3	9.525	4.76	○
	WNMG 060412E-DE5	1.2	0.30-0.90	1.80-3.3	9.525	4.76	○
	WNMG 080408E-DE5	0.8	0.20-0.60	1.20-4.3	12.7	4.76	●
	WNMG 080412E-DE5	1.2	0.30-0.90	1.80-4.3	12.7	4.76	●

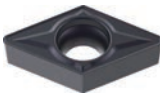




● Stocked ○ Non-stocked

Negative insert list

Insert	Product code	RE (mm)	f (mm/rev)	ap (mm)	Size(mm)		Grade
					IC	S	EH511X
	CCMT 060202E-HW2	0.2	0.02-0.07	0.15-1.6	6.35	2.38	●
	CCMT 060204E-HW2	0.4	0.04-0.14	0.30-1.6	6.35	2.38	●
	CCMT 060208E-HW2	0.8	0.09-0.28	0.60-1.6	6.35	2.38	●
	CCMT 09T302E-HW2	0.2	0.02-0.07	0.15-2.4	9.525	3.97	●
	CCMT 09T304E-HW2	0.4	0.04-0.14	0.30-2.4	9.525	3.97	●
	CCMT 09T308E-HW2	0.8	0.09-0.28	0.60-2.4	9.525	3.97	●
	CCMT 060204E-HE3	0.4	0.05-0.16	0.35-1.9	6.35	2.38	●
	CCMT 060208E-HE3	0.8	0.10-0.32	0.70-1.9	6.35	2.38	●
	CCMT 09T304E-HE3	0.4	0.05-0.16	0.35-2.9	9.525	3.97	●
	CCMT 09T308E-HE3	0.8	0.10-0.32	0.70-2.9	9.525	3.97	●
	CCMT 09T312E-HE3	1.2	0.16-0.48	1.05-2.9	9.525	3.97	●
	CCMT 120404E-HE3	0.4	0.05-0.16	0.35-3.9	12.7	4.76	●
	CCMT 120408E-HE3	0.8	0.10-0.32	0.70-3.9	12.7	4.76	●
	CCMT 120412E-HE3	1.2	0.16-0.48	1.05-3.9	12.7	4.76	●
	CCMT 060204E-AE3	0.4	0.06-0.18	0.40-2.1	6.35	2.38	●
	CCMT 060208E-AE3	0.8	0.12-0.36	0.80-2.1	6.35	2.38	○
	CCMT 09T304E-AE3	0.4	0.06-0.18	0.40-3.2	9.525	3.97	●
	CCMT 09T308E-AE3	0.8	0.12-0.36	0.80-3.2	9.525	3.97	●
	CCMT 120404E-AE3	0.4	0.06-0.18	0.40-4.3	12.7	4.76	○
	CCMT 120408E-AE3	0.8	0.12-0.36	0.80-4.3	12.7	4.76	●
	CCMT 120412E-AE3	1.2	0.18-0.54	1.20-4.3	12.7	4.76	○
		DCMT 070202E-HW2	0.2	0.02-0.07	0.15-1.5	6.35	2.38
DCMT 070204E-HW2		0.4	0.04-0.14	0.30-1.5	6.35	2.38	●
DCMT 11T302E-HW2		0.2	0.02-0.07	0.15-2.3	9.525	3.97	●
DCMT 11T304E-HW2		0.4	0.04-0.14	0.30-2.3	9.525	3.97	●
DCMT 11T308E-HW2		0.8	0.09-0.28	0.60-2.3	9.525	3.97	●
		DCMT 070204E-HE3	0.4	0.05-0.16	0.35-2.1	6.35	2.38
	DCMT 070208E-HE3	0.8	0.10-0.32	0.70-2.1	6.35	2.38	●
	DCMT 11T304E-HE3	0.4	0.05-0.16	0.35-3.1	9.525	3.97	●
	DCMT 11T308E-HE3	0.8	0.10-0.32	0.70-3.1	9.525	3.97	●
	DCMT 11T312E-HE3	1.2	0.16-0.48	1.05-3.1	9.525	3.97	●








● Stocked ○ Non-stocked

Negative insert list

Insert	Product code	RE (mm)	f (mm/rev)	ap (mm)	Size(mm)		Grade
					IC	S	EH511X
	DCMT 070204E-AE3	0.4	0.06-0.18	0.40-2.3	6.35	2.38	○
	DCMT 070208E-AE3	0.8	0.12-0.36	0.80-2.3	6.35	2.38	○
	DCMT 11T304E-AE3	0.4	0.06-0.18	0.40-3.5	9.525	3.97	●
	DCMT 11T308E-AE3	0.8	0.12-0.36	0.80-3.5	9.525	3.97	●
	DCMT 11T312E-AE3	1.2	0.18-0.54	1.20-3.5	9.525	3.97	○
	SCMT 09T304E-HW2	0.4	0.04-0.14	0.30-2.4	9.525	3.97	●
	SCMT 09T308E-HW2	0.8	0.09-0.28	0.60-2.4	9.525	3.97	●
	SCMT 120404E-HW2	0.4	0.04-0.14	0.30-3.2	12.7	4.76	○
	SCMT 09T304E-HE3	0.4	0.05-0.16	0.35-2.9	9.525	3.97	●
	SCMT 09T308E-HE3	0.8	0.10-0.32	0.70-2.9	9.525	3.97	●
	SCMT 120404E-HE3	0.4	0.05-0.16	0.35-3.8	12.7	4.76	●
	SCMT 120408E-HE3	0.8	0.10-0.32	0.70-3.8	12.7	4.76	●
	SCMT 120412E-HE3	1.2	0.16-0.48	1.05-3.8	12.7	4.76	○
	SCMT 09T304E-AE3	0.4	0.06-0.18	0.40-3.1	9.525	3.97	○
	SCMT 09T308E-AE3	0.8	0.12-0.36	0.80-3.1	9.525	3.97	●
	SCMT 120404E-AE3	0.4	0.06-0.18	0.40-4.2	12.7	4.76	○
	SCMT 120408E-AE3	0.8	0.12-0.36	0.80-4.2	12.7	4.76	○
	SCMT 120412E-AE3	1.2	0.18-0.54	1.20-4.2	12.7	4.76	○
	TCMT 090204E-HW2	0.4	0.04-0.14	0.30-1.9	5.56	2.38	●
	TCMT 110202E-HW2	0.2	0.02-0.07	0.15-2.2	6.35	2.38	●
	TCMT 110204E-HW2	0.4	0.04-0.14	0.30-2.2	6.35	2.38	●
	TCMT 110208E-HW2	0.8	0.09-0.28	0.60-2.2	6.35	2.38	●
	TCMT 16T304E-HW2	0.4	0.04-0.14	0.30-3.3	9.525	3.97	●
	TCMT 16T308E-HW2	0.8	0.09-0.28	0.60-3.3	9.525	3.97	●
	TCMT 090204E-HE3	0.4	0.05-0.16	0.35-2.6	5.56	2.38	●
	TCMT 090208E-HE3	0.8	0.10-0.32	0.70-2.6	5.56	2.38	●
	TCMT 110204E-HE3	0.4	0.05-0.16	0.35-3.0	6.35	2.38	●
	TCMT 110208E-HE3	0.8	0.10-0.32	0.70-3.0	6.35	2.38	●
	TCMT 16T304E-HE3	0.4	0.05-0.16	0.35-4.5	9.525	3.97	●
	TCMT 16T308E-HE3	0.8	0.10-0.32	0.70-4.5	9.525	3.97	●
	TCMT 16T312E-HE3	1.2	0.16-0.48	1.05-4.5	9.525	3.97	○

● Stocked ○ Non-stocked

Negative insert list

Insert	Product code	RE (mm)	f (mm/rev)	ap (mm)	Size(mm)		Grade EH51X
					IC	S	
	TPMT 090204E-HE3	0.4	0.05-0.16	0.35-2.6	5.56	2.38	○
	TPMT 090208E-HE3	0.8	0.10-0.32	0.70-2.6	5.56	2.38	●
	TPMT 110304E-HE3	0.4	0.05-0.16	0.35-3.0	6.35	3.18	●
	TPMT 110308E-HE3	0.8	0.10-0.32	0.70-3.0	6.35	3.18	●
	TCMT 090204E-AE3	0.4	0.06-0.18	0.40-2.9	5.56	2.38	○
	TCMT 090208E-AE3	0.8	0.12-0.36	0.80-2.9	5.56	2.38	○
	TCMT 110204E-AE3	0.4	0.06-0.18	0.40-3.3	6.35	2.38	○
	TCMT 110208E-AE3	0.8	0.12-0.36	0.80-3.3	6.35	2.38	○
	TCMT 16T304E-AE3	0.4	0.06-0.18	0.40-4.9	9.525	3.97	○
	TCMT 16T308E-AE3	0.8	0.12-0.36	0.80-4.9	9.525	3.97	○
	TCMT 16T312E-AE3	1.2	0.18-0.54	1.20-4.9	9.525	3.97	○
	VBMT 110304E-HW2	0.4	0.04-0.14	0.30-1.4	6.35	3.18	●
	VBMT 110308E-HW2	0.8	0.09-0.28	0.60-1.4	6.35	3.18	●
	VBMT 160402E-HW2	0.2	0.02-0.07	0.15-2.1	9.525	4.76	●
	VBMT 160404E-HW2	0.4	0.04-0.14	0.30-2.1	9.525	4.76	●
	VBMT 160408E-HW2	0.8	0.09-0.28	0.60-2.1	9.525	4.76	●
	VCMT 160404E-HW2	0.4	0.04-0.14	0.30-2.1	9.525	4.76	○
	VCMT 160408E-HW2	0.8	0.09-0.28	0.60-2.1	9.525	4.76	○
	VBMT 110304E-HE3	0.4	0.05-0.16	0.35-2.1	6.35	3.18	●
	VBMT 110308E-HE3	0.8	0.10-0.32	0.70-2.1	6.35	3.18	●
	VBMT 160404E-HE3	0.4	0.05-0.16	0.35-3.1	9.525	4.76	●
	VBMT 160408E-HE3	0.8	0.10-0.32	0.70-3.1	9.525	4.76	●
	VBMT 160412E-HE3	1.2	0.16-0.48	1.05-3.1	9.525	4.76	●
	VCMT 110304E-HE3	0.4	0.05-0.16	0.35-2.1	6.35	3.18	●
	VCMT 110308E-HE3	0.8	0.10-0.32	0.70-2.1	6.35	3.18	●
	VCMT 160404E-HE3	0.4	0.05-0.16	0.35-3.1	9.525	4.76	●
	VCMT 160408E-HE3	0.8	0.10-0.32	0.70-3.1	9.525	4.76	●
	VBMT 160404E-AE3	0.4	0.06-0.18	0.40-3.3	9.525	4.76	○
	VBMT 160408E-AE3	0.8	0.12-0.36	0.80-3.3	9.525	4.76	○
	VBMT 160412E-AE3	1.2	0.18-0.54	1.20-3.3	9.525	4.76	○

● Stocked ○ Non-stocked