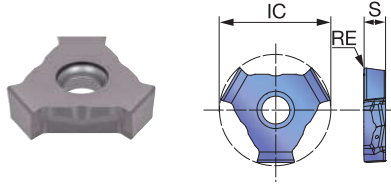


INSERT

TVKX-MJ



P	Steel	☆	★	★
M	Stainless	★	☆	
K	Cast iron	★	☆	
N	Non-ferrous			
S	Superalloys	★	☆	★
H	Hard materials			

★ : First choice
☆ : Second choice

Designation	RE	Coated			S	IC
		AH120	AH130	AH725		
TVKX020202TN-MJ	0.2	●		●	2.4	9.4
TVKX020204TN-MJ	0.4	●		●	2.4	9.4
TVKX03X302TN-MJ	0.2	●		●	3.2	9.4
TVKX03X304TN-MJ	0.4	●		●	3.2	9.4
TVKX04H304TN-MJ	0.4	●	●	●	3.5	16.9
TVKX04H308TN-MJ	0.8	●	●	●	3.5	16.9
TVKX050404TN-MJ	0.4	●	●	●	4.5	16.9
TVKX050408TN-MJ	0.8	●	●	●	4.5	16.9

● : Line up

STANDARD CUTTING CONDITIONS

ISO	Workpiece material	Hardness (HB)	Priority	Grade	Cutting speed Vc (m/min)	Feed per edge line: fz (mm/t)			
						ASV		ASV	
						ae / DC (mm)		ae / DC (mm)	
		10%	20%	30%	≤ 50%				
P	Low carbon steels SS400, etc. E275A, etc.	- 200	First choice	AH725	90 - 180	0.08 - 0.25	0.06 - 0.19	0.05 - 0.16	0.05 - 0.15
		- 200	Fracture resistance	AH130	90 - 180	0.08 - 0.25	0.06 - 0.19	0.05 - 0.16	0.05 - 0.15
	High carbon steels S45C, etc. C45, etc.	200 - 300	First choice	AH725	90 - 180	0.07 - 0.22	0.05 - 0.16	0.04 - 0.14	0.04 - 0.13
		200 - 300	Fracture resistance	AH130	90 - 180	0.07 - 0.22	0.05 - 0.16	0.04 - 0.14	0.04 - 0.13
	Alloy steels SCM440, etc. 42CrMo4, etc.	150 - 300	First choice	AH725	90 - 180	0.07 - 0.22	0.05 - 0.16	0.04 - 0.14	0.04 - 0.13
		150 - 300	Fracture resistance	AH130	90 - 180	0.07 - 0.22	0.05 - 0.16	0.04 - 0.14	0.04 - 0.13
Tool steels SKD61, etc. X40CrMoV5-1, etc.	- 300	First choice	AH725	90 - 180	0.07 - 0.22	0.05 - 0.16	0.04 - 0.14	0.04 - 0.13	
	- 300	Fracture resistance	AH130	90 - 180	0.07 - 0.22	0.05 - 0.16	0.04 - 0.14	0.04 - 0.13	
M	Stainless steel SUS304, etc. X5CrNi18-9, etc.	-		AH130	90 - 200	0.07 - 0.22	0.05 - 0.16	0.04 - 0.14	0.04 - 0.13
K	Grey cast irons FC250, etc. 250, etc.	150 - 250		AH120	120 - 230	0.08 - 0.25	0.06 - 0.19	0.05 - 0.16	0.05 - 0.15
	Ductile cast irons FCD400, etc. 400-15S, etc.	150 - 250		AH120	90 - 150	0.08 - 0.25	0.06 - 0.19	0.05 - 0.16	0.05 - 0.15
S	Titanium alloys Ti-6Al-4V, etc.	-	First choice	AH725	30 - 40	0.07 - 0.12	0.05 - 0.09	0.04 - 0.07	0.04 - 0.07
		-	Fracture resistance	AH130	30 - 40	0.07 - 0.12	0.05 - 0.09	0.04 - 0.07	0.04 - 0.07
	Nickel-based alloys Inconel 718, etc.	-	First choice	AH725	20 - 35	0.07 - 0.12	0.05 - 0.09	0.04 - 0.07	0.04 - 0.07
		-	Fracture resistance	AH130	20 - 35	0.07 - 0.12	0.05 - 0.09	0.04 - 0.07	0.04 - 0.07

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