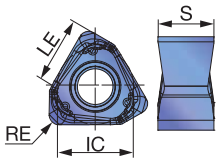
INSERT

WNGU-MJ



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

★ : First choice
☆ : Second choice

Designation	RE	Coated AH120	AH130	AH725	AH3135	LE	IC	S
WNGU060304TN-MJ	0.4	●			●	5.6	6.1	4.4
WNGU060308TN-MJ	0.8	●	●	●	●	5.6	6.1	4.4
WNGU060310TN-MJ	1	●			●	5.6	6.1	4.4
WNGU060316TN-MJ	1.6	●	●	●		5.6	6.1	4.4
WNGU060320TN-MJ	2	●			●	5.6	6.1	4.4
WNGU07T304TN-MJ	0.4	●			●	6.8	7.4	5.5
WNGU07T308TN-MJ	0.8	●	●	●		6.8	7.4	5.5
WNGU07T310TN-MJ	1	●			●	6.8	7.4	5.5
WNGU07T316TN-MJ	1.6	●	●	●		6.8	7.4	5.5
WNGU07T320TN-MJ	2	●			●	6.8	7.4	5.5
WNGU090404TN-MJ	0.4	●			●	8.5	8.6	6.5
WNGU090408TN-MJ	0.8	●	●	●		8.5	8.6	6.5
WNGU090410TN-MJ	1	●			●	8.5	8.6	6.5
WNGU090416TN-MJ	1.6	●	●	●		8.5	8.6	6.5
WNGU090420TN-MJ	2	●			●	8.5	8.6	6.5

●: Line up

Approach angle
10°-20°
45°
70°
85°
88°
90°
Others

STANDARD CUTTING CONDITIONS

ISO	Workpiece material	Hardness (HB)	Priority	Grade	Cutting speed *Vc* (m/min)	Feed per edge line: *fz* (mm/t) TSW / ASW ae / DC (mm) 10%	20%	30%	≤ 50%
P	Low carbon steels SS400, etc. E275A, etc.	- 200	First choice	AH725	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
		- 200	Fracture resistance	AH130	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
	High carbon steels S45C, etc. C45, etc.	200 - 300	First choice	AH725	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
		200 - 300	Fracture resistance	AH130	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
	Alloy steels SCM440, etc. 42CrMo4, etc.	150 - 300	First choice	AH725	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
		150 - 300	Fracture resistance	AH130	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
	Tool steels SKD61, etc. X40CrMoV5-1, etc.	- 300	First choice	AH725	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
		- 300	Fracture resistance	AH130	90 - 180	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
M	Stainless steel SUS304, etc. X5CrNi18-9, etc.	-	-	AH130	90 - 200	0.12 - 0.33	0.09 - 0.25	0.07 - 0.21	0.07 - 0.2
K	Grey cast irons FC250, etc. 250, etc.	150 - 250	-	AH120	120 - 230	0.12 - 0.42	0.09 - 0.31	0.07 - 0.27	0.07 - 0.25
	Ductile cast irons FCD400, etc. 400-15S, etc.	150 - 250	-	AH120	90 - 150	0.12 - 0.42	0.09 - 0.31	0.07 - 0.27	0.07 - 0.25
S	Titanium alloys Ti-6Al-4V, etc.	-	First choice	AH725	30 - 40	0.1 - 0.17	0.08 - 0.13	0.06 - 0.11	0.06 - 0.1
		-	Fracture resistance	AH130	30 - 40	0.1 - 0.17	0.08 - 0.13	0.06 - 0.11	0.06 - 0.1
	Nickel-based alloys Inconel 718, etc.	-	First choice	AH725	20 - 35	0.1 - 0.17	0.08 - 0.13	0.06 - 0.11	0.06 - 0.1
		-	Fracture resistance	AH130	20 - 35	0.1 - 0.17	0.08 - 0.13	0.06 - 0.11	0.06 - 0.1