

New Grade for Stainless Steel Machining

○ New Milling & Drilling grade for Stainless steel (YG613)

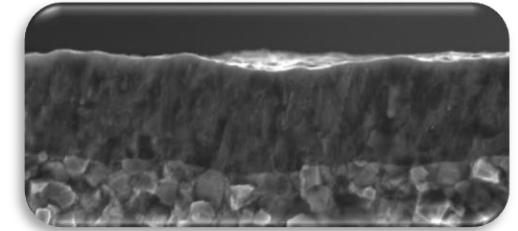
1. New Grade information

1) New PVD-Coating Technology

- **Newest Coating Technology and new coating structure ensure stable tool life**
- Greatly improved film coating adhesion realizes excellent boundary defect resistance.
- Top coating layer provide smooth surface and lubricant effect

2) Ultra high toughness substrate and strong adhesion

3) Excellent cutting edge strength and chipping resistance guarantee stable machinability and stable tool life for stainless steel and mild steel

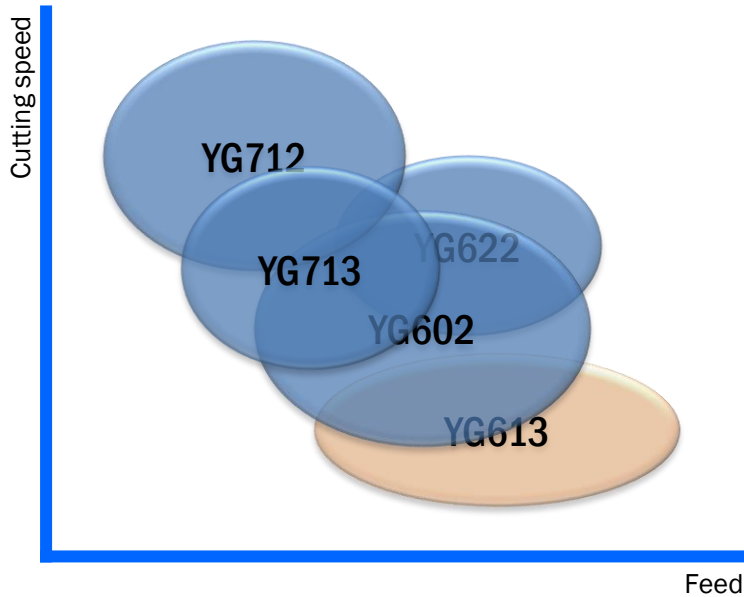


※ Target materials : Stainless steel, Carbon Steel and alloy steel with Interrupted condition

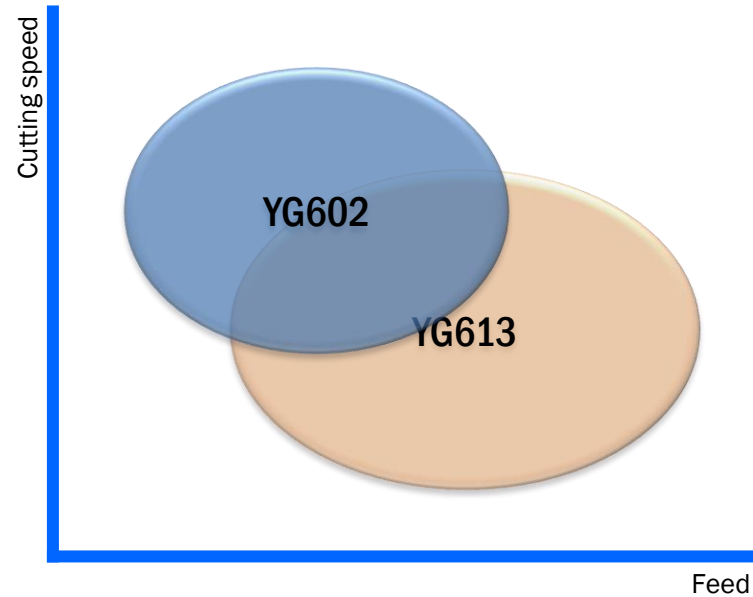
Cutting Information	Grade	Vc	fz	Ap
YG613	M25 ~ M40 P35 ~ P45	60 ~ 150 80 ~ 170	0.1 ~ 0.8	0.1 ~ 4

New Grade for Stainless Steel of Machining


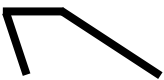
Steel Milling Grade



Stainless Steel Milling Grade



※ Choice of Milling Chipbreaker

Chipbreaker	Shape of Edge	Purpose	Feature
-ST		Finishing Semi-Finishing	Low cutting resistance chip breaker design, suitable finishing cutting.
-GN		General	Chipbreaker design suitable for general milling and suitable for most cutting areas

Field Test Report

M

X5CrNi18-9



Competitor A

Designation	ENMX0604	High Feed Insert
Chip breaker	-ST	-
Grade	YG613	Grade for Stainless Steel
Vc (Cutting Speed)	100	90
Fn (Feed)	0.63	0.47
Ap (Depth of Cut)	0.5	0.5
Tool Life	2 parts	1 parts


50%
**2
parts**
YG613


Tool Life

**1
parts**

Competitor A

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※ Item List (2020.12. 22)

Designation	EDP
AOMT123608PDTR-YG613/AOMT123608PDTR	12000613
APKT160408PDTR-YG613/APKT160408PDTR	12000607
APKT160408-ST-YG613/APKT160408-ST	12000617
APKT100305-ST-YG613/APKT100305-ST	12000618
APKT100308PDTR-YG613/APKT100308PDTR	12000610
RDKT10T3M0-ST-YG613/RDKT10T3M0-ST	12000620
ENMX0604-YG613/ENMX0604	12000606
ENMX0604-ST-YG613/ENMX0604-ST	12000625
ONMU080612-YG613/ONMU080612	12000615
RDKT1204M0-ST-YG613/RDKT1204M0-ST	12000621
SPMX07T308-YG613/SPMX07T308	32000061
SPMX07T308-ST-YG613/SPMX07T308-ST	32000068
SPMX050204-ST-YG613/SPMX050204-ST	32000070
SPMX060204-ST-YG613/SPMX060204-ST	32000071
SPMX090408-ST-YG613/SPMX090408-ST	32000072
SPMX110408-ST-YG613/SPMX110408-ST	32000073
SPMX140512-ST-YG613/SPMX140512-ST	32000074