

Parting & Grooving Overview

Parting & Groove Turn Grades

Parting and Grooving Grades		P Steel				M Stainless steel				K Cast iron			N Non Ferrous		S Super Alloy	
		P10	P20	P30	P40	M10	M20	M30	M40	K10	K20	K30	N10	N20	S10	S20
PVD	YG602G (YG602)			602G				602G				602G				602G
	YG603							603								

YG602G (YG602) P20 - P35 M20 - M40 K20 - K40 S15 - S25	PVD - TiAlN 	Universal grade for Parting & Groove Turn - Ultra Dense PVD Coating with optimal thermal resistance & strength - Sub-Micron substrate designed for demanding application - YG602G : First Choice for Low Cutting Speed, Soft and Sticky Material with Low Hardness (Gold Color) - YG602 : First Choice for General Application (Violet Color)
YG603 M30 - M50	PVD - TiAlN 	PVD Parting & Grooving Grade for Stainless Steel - Ultra high toughness substrate and strong adhesion - Excellent cutting edge strength and chipping resistance - Stable machinability and tool life for stainless steel

Parting & Grooving Inserts

	TD. Series	Inserts	2, 3, 4, 5
		TDN, TDP, TDY	

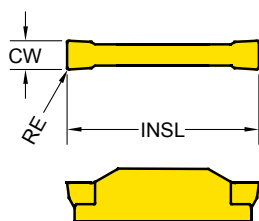
Parting & Grooving Chipbreakers

Parting & Grooving	-P			- For Parting & Deep Grooving - For Low Feed Rate and Difficult to Cut Materials
	-N			- For External Parting And Grooving - For General Use
Turning & Grooving	-Y			- For External Turning & Grooving - For Medium feed rate
	NEW GL			- For External, Internal turning and Grooving - Face grooving and Face turning - For low feed rate
	NEW GM			- For External, Internal turning and Grooving - First choice Face Grooving and Face turning - For Medium feed rate
	NEW RG			- For External, Internal turning and Grooving - Full radius Insert for Profiling

Parting & Grooving

Parting & Grooving Inserts

Recommended Cutting Conditions : p.222



Series	INSL	CW
TD * 2	20	2
TD * 3	20	3
TD * 4	20	4
TD * 5	25	5

* CDX : Cutting Depth Maximum

● : Stock item ○ : Order made item

TD.	Designation	RE	Parting & Grooving		Turning		EDP 5200..		
			Fn (mm/rev.)	CDX (mm)	Fn (mm/rev.)	Ap (mm)	YG602	YG602G	YG603
-P  Parting & Grooving (Sharp edge) *  6° Angled Parting	TDP 2002	0.2	0.04 ~ 0.12	19	-	-	● 0012	○ 0036	● 0078
	TDP 3002	0.2	0.05 ~ 0.16	19	-	-	● 0029	○ 0030	● 0076
	TDP 4003	0.3	0.06 ~ 0.18	19	-	-	● 0023	○ 0038	● 0080
	* TDPR 2002 - 6	0.2	0.03 ~ 0.08	19	-	-	● 0045		● 0085
	* TDPR 3002 - 6	0.2	0.04 ~ 0.12	19	-	-	● 0048		● 0089
	* TDPL 2002 - 6	0.2	0.03 ~ 0.08	19	-	-	● 0046		● 0086
	* TDPL 3002 - 6	0.2	0.04 ~ 0.12	19	-	-	● 0049		● 0090
-N  Parting & Grooving (General) *  6° Angled Parting	TDN 2002	0.2	0.05 ~ 0.18	19	-	-	● 0010	○ 0035	● 0077
	TDN 3002	0.2	0.07 ~ 0.23	19	-	-	● 0024	○ 0025	● 0075
	TDN 4003	0.3	0.08 ~ 0.28	19	-	-	● 0022	○ 0037	● 0079
	TDN 5003	0.3	0.09 ~ 0.35	24	-	-	● 0042		
	* TDNR 2002 - 6	0.2	0.04 ~ 0.14	19	-	-	● 0043		● 0083
	* TDNR 3002 - 6	0.2	0.06 ~ 0.18	19	-	-	● 0040		● 0087
	* TDNL 2002 - 6	0.2	0.04 ~ 0.14	19	-	-	● 0044		● 0084
-Y  Turn Groove  NEW GL  NEW GM  NEW RG	* TDNL 3002 - 6	0.2	0.06 ~ 0.18	19	-	-	● 0047		● 0088
	* TDNL 4003 - 4	0.3	0.06 ~ 0.24	19			● 0096		
	TDY3E - 0.4	0.4	0.06 ~ 0.24	10	0.12 ~ 0.22	0.5 ~ 2.4		● 0027	
	TDY4E - 0.4	0.4	0.08 ~ 0.27	10	0.15 ~ 0.30	0.5 ~ 2.8		● 0020	
	TDY5E - 0.4	0.4	0.08 ~ 0.23	10	0.15 ~ 0.30	0.5 ~ 3.2		● 0082	
	TDY2E - 0.3 - GL	0.3	0.04 ~ 0.20	10	0.06 ~ 0.18	0.4 ~ 1.5		● 0123	● 0124
	TDY3E - 0.3 - GL	0.3	0.05 ~ 0.23	10	0.08 ~ 0.20	0.4 ~ 2.0		● 0125	● 0126
-Y  NEW GL  NEW GM  NEW RG	TDY4E - 0.4 - GL	0.4	0.06 ~ 0.26	10	0.10 ~ 0.25	0.5 ~ 2.3		● 0112	● 0127
	TDY3E - 0.4 - GM	0.4	0.06 ~ 0.24	10	0.12 ~ 0.22	0.5 ~ 2.4		● 0118	● 0119
	TDY4E - 0.4 - GM	0.4	0.08 ~ 0.27	10	0.15 ~ 0.30	0.5 ~ 2.8		● 0113	● 0120
	TDY4E - 0.8 - GM	0.8	0.10 ~ 0.27	10	0.18 ~ 0.32	0.8 ~ 2.8		● 0114	● 0122
	TDY2E - 1.0 - RG	1.0	0.05 ~ 0.15	10	0.10 ~ 0.30	0.1 ~ 0.8		● 0111	● 0115
	TDY3E - 1.5 - RG	1.5	0.08 ~ 0.18	10	0.15 ~ 0.35	0.1 ~ 1.2		● 0108	● 0116
	TDY4E - 2.0 - RG	2.0	0.10 ~ 0.20	10	0.18 ~ 0.45	0.1 ~ 1.6		● 0109	● 0117

TURNING

PARTING & GROOVING

MILLING

DRILLING

TECHNICAL INFORMATION