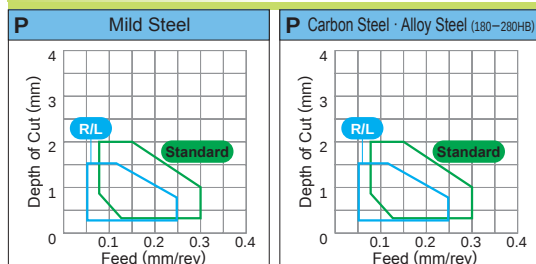


60° TP TYPE INSERTS WITHOUT HOLE

TPGR 11 03 04 R
 Size Thickness Corner Radius Chip Breaker
 ★ Please refer to page A002.

CHIP CONTROL RANGE FOR WORK MATERIALS

Finish Cutting..... Medium Cutting.....



Cutting Conditions (Guide) : ● : Stable Cutting ● : General Cutting ✱ : Unstable Cutting

Work Material	P	Steel																													
	M	Stainless Steel																													
	K	Cast Iron																													
	N	Non-ferrous Metal																													
	S	Heat-resistant Alloy, Titanium Alloy																													
Shape	Order Number	Corner R	Coated																Cermet	Coated Cermet	Carbide	Applicable Holder Page									
		Re (mm)	UE6105	UE6110	UE6020	MC6025	UH6400	MC7025	MP7035	US7020	US735	US905	MC5005	MC5015	UC5105	UC5115	VP05RT	VP10RT	VP15TF	UP20M	NX2525		NX3035	MP3025	AP25N	VP25N	VP45N	UTi20T	HTi05T	HTi10	RT9010
R/L  Finish Cutting	TPGR110304R	0.4																			●								●	E027	
	110304L	0.4																				●							●		
	160304R	0.4																				●						●	★		
	160304L	0.4																				●						●			
	160308R	0.8																				●									
	160308L	0.8																				●						●			
Standard  Light to Medium Cutting	TPMR090202	0.2																				●	●								E027
	090204	0.4																				●	●	●							
	090208	0.8																					●								
	110302	0.2																				●	●	●							
	110304	0.4		●	★																	●	●	●							
	110308	0.8		●	★																	●	●	●							
	160304	0.4		●	★																	●	●	●							
	160308	0.8		●	★																	●	★	●							
160312	1.2		●																			★	●								
80 Breaker  Light to Medium Cutting	TPMR110304-80	0.4		●																							●			E027	
	110308-80	0.8		●																											
	160304-80	0.4		●																											
	160308-80	0.8		●																											
Flat Top 	TPMN110208	0.8																									●			E027	
	110304	0.4		●										●	●							●	●					●	●		
	110308	0.8		★										●	●							★						●	●		
	160304	0.4		●										●	●			★	★			●					●	●			
	160308	0.8		●										●	●			★	●			●					●	★	●		
	160312	1.2		★										★	●							●							★		
	160320	2.0																									●				
	220404	0.4		★																								●			
	220408	0.8		★	★														★	●								●	●		
	220408T	0.8																				●									
220412	1.2		★															★										●	●		

CHIP BREAKERS > A068
 GRADES > A030
 IDENTIFICATION > A002