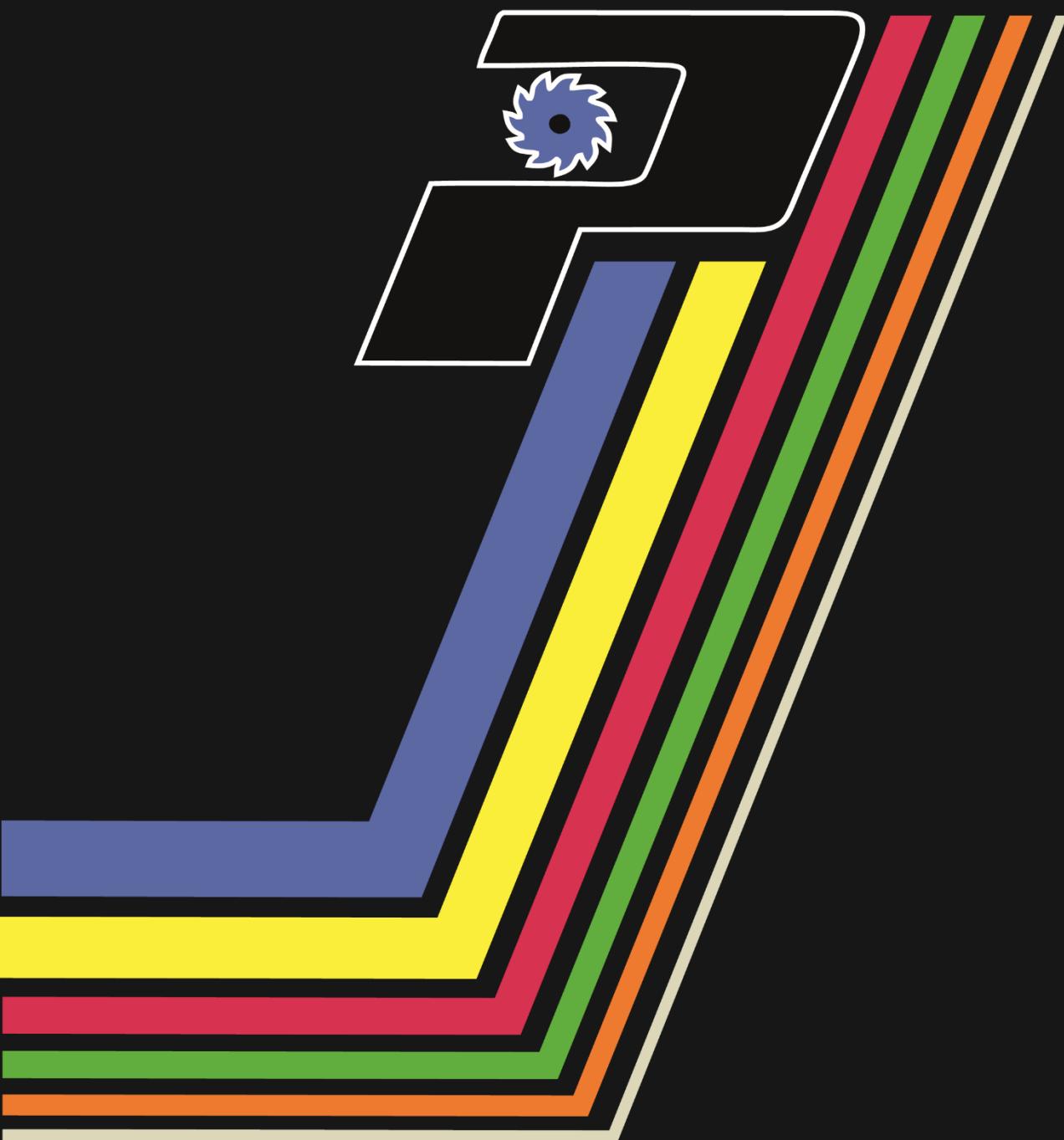


CATALOGO INSERTI

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# FISSAGGIO MECCANICO



*PRECICUT*

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PRECISION CUTTING



## CONTENTS

### CNC Inserts

Grade Naming System P01

Turning Inserts P02-P16

Grooving Inserts P17-P21

Thread turning Inserts P22-P39

Milling Inserts P40-P49

Drilling Inserts P50-P53

① Insert Material	
PC	Cemented Carbide
PCT	Cermet

③ Color	
3	Yellow
4	Black
5	Bronze
6	Double Color

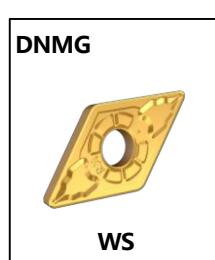
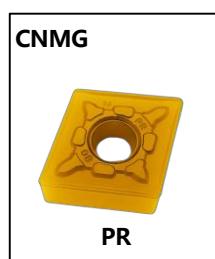
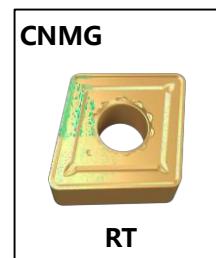
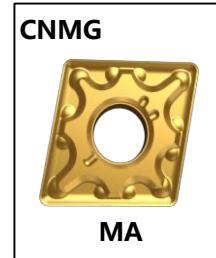
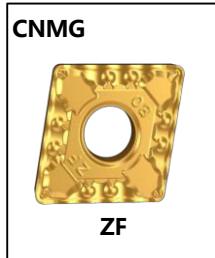
⑤ Coating Type	
0	PVD
5	CVD

PC 8 5 2 0 E

② Workpiece Material	
7	K
8	P
9	M/S
1	N

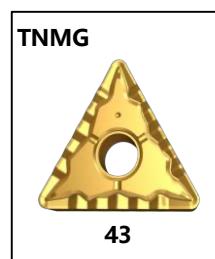
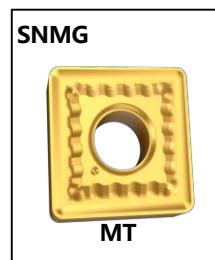
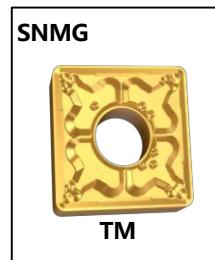
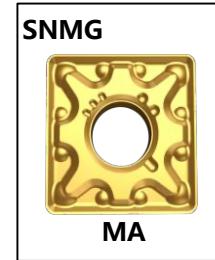
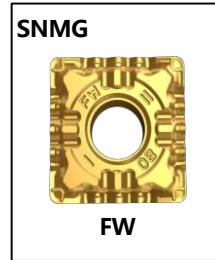
④ Hardness Code	
1	Hard
2	General
3	Soft

⑥ Polishing	
	E



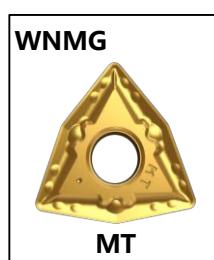
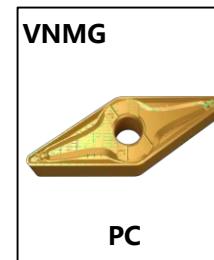
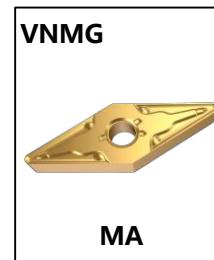
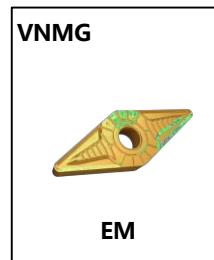
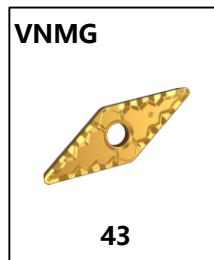
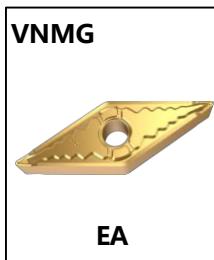
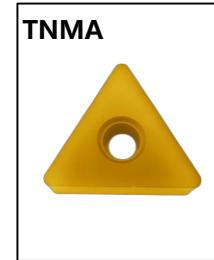
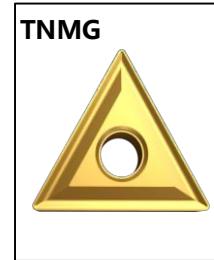
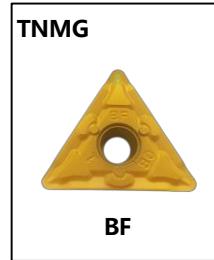
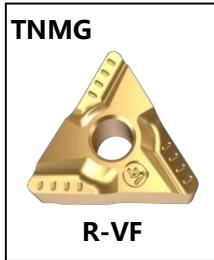


## TURNING INSERTS



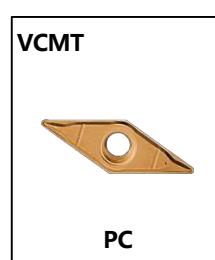
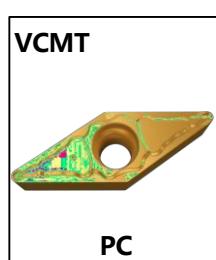
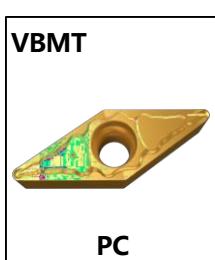
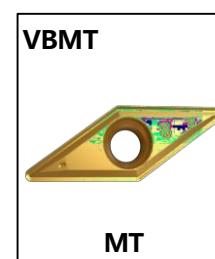
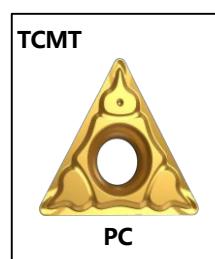
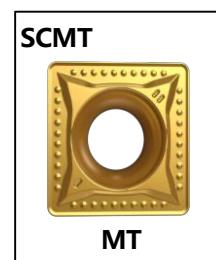
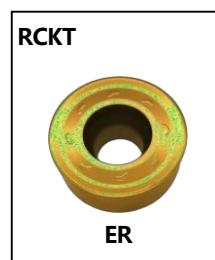
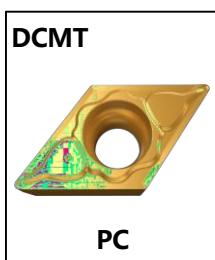
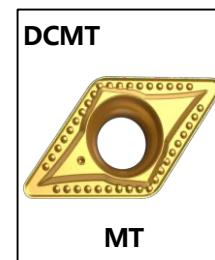
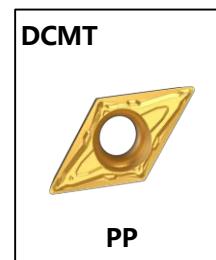
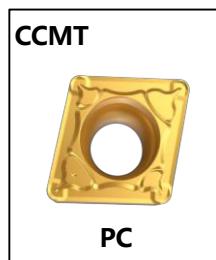


## TURNING INSERTS



TURNING INSERTS

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## TURNING INSERTS

Appearance	Designation	Grade									
		P	K				M/S		N		
	CNMG120404-EA	PC8310	○	○	○	○	○	○	○	○	
	CNMG120408-ZF	PC8320	○	○	○	○	●	●	●	●	
	CNMG120404-43	PC8325	○	○	○	○	●	●	○	●	
	CNMG120408-43	PC8410	○	○	○	○	●	●	○	●	
	CNMG120412-43	PC8420	○	○	○	○	●	●	○	●	
	CNMG120408-EM	PC8615	●	●	●	●	●	●	○	●	
	CNMG120412-EM	PC8625	○	○	○	○	●	●	○	●	
	CNMG120404-MA	PC8625E	○	○	○	○	●	●	○	●	
	CNMG120408-MA	PC7310	●	●	●	●	●	●	○	●	
	CNMG120412-MA	PC7410	●	●	●	●	●	●	○	●	
	CNMG120404-MT	PC7415	●	●	●	●	●	●	○	●	
	CNMG120408-MT	PC7415E	●	●	●	●	●	●	○	●	
	CNMG160608-MT	PC7615	●	●	●	●	●	●	○	●	
	CNMG160612-MT	PC9330	●	●	●	●	●	●	○	●	
	CNMG120404-PC	PC9430	●	●	●	●	●	●	○	●	
	CNMG120408-PC	PC9530	●	●	●	●	●	●	○	●	
	CNMG120404-TM	PC101	●	●	●	●	●	●	○	●	
	CNMG120408-TM	PC101	●	●	●	●	●	●	○	●	
	CNMG120412-TM	PC101	●	●	●	●	●	●	○	●	
	CNMG120404	PC101	●	●	●	●	●	●	○	●	
	CNMG120408	PC101	●	●	●	●	●	●	○	●	
	CNMG120412	PC101	●	●	●	●	●	●	○	●	

● Main Grade |

○ Optional Grades |



## TURNING INSERTS

Appearance	Designation	Grade													
		P				K				M/S		N			
		PC8310	PC8320	PC8325	PC8410	PC8420	PC8615	PC8625E	PC7310	PC7410	PC7415	PC7615	PC9330	PC9430	PC9530
	CNMG190616-RT	○	○			○	●	●		●	●	○	●	○	●
	CNMG120412-ET	○	○			○	●	●		●	●	○	●	○	●
	CNMG120408R-ZC	○	○			○	●	●		●	●	○	●	○	●
	CNMG120408L-ZC	○	○			○	●	●		●	●	○	●	○	●
	CNMG160608-PR	○	○			○	●	●		●	●	○	●	○	●
	CNMA120408	○	○			○	●	●		●	●	○	●	○	●
	CNMM190616N-MP	○	○			○	●	●		●	●	○	●	○	●
	CNMM190616N-HG	○	○			○	●	●		●	●	○	●	○	●
	DNMG110404-FG	○	○			○	●	●		●	●	○	●	○	●
	DNMG110408-FG	○	○			○	●	●		●	●	○	●	○	●
	DNMG150404-43	○	○			○	●	●		●	●	○	●	○	●
	DNMG150408-43	○	○			○	●	●		●	●	○	●	○	●
	DNMG150604-43	○	○			○	●	●		●	●	○	●	○	●
	DNMG150608-43	○	○			○	●	●		●	●	○	●	○	●

● DNMG11-FG – double-sided screw clamping type

● Main Grade |

○ Optional Grades |



## TURNING INSERTS

Appearance	Designation	Grade									
		P	K			M/S		N			
	DNMG150408-MA	PC8310	○	○	○	●	●	●	○	○	○
	DNMG150608-MA	PC8320	○	○	○	●	●	●	○	●	○
	DNMG150404-PC	PC8325	○	○	○	●	●	●	○	●	○
	DNMG150408-PC	PC8410	○	○	○	●	●	●	○	●	○
	DNMG150604-PC	PC8420	○	○	○	●	●	●	○	●	○
	DNMG150608-PC	PC8625E	○	○	○	●	●	●	○	●	○
	DNMG150404-TM	PC8615	○	○	○	●	●	●	○	●	○
	DNMG150408-TM	PC7310	○	○	○	●	●	●	○	●	○
	DNMG150412-TM	PC7410	○	○	○	●	●	●	○	●	○
	DNMG150604-TM	PC7415	○	○	○	●	●	●	○	●	○
	DNMG150608-TM	PC7415E	○	○	○	●	●	●	○	●	○
	DNMG150408-WS	PC7615	○	○	○	●	●	●	○	●	○
	DNMG150608-WS	PC9330	○	○	○	●	●	●	○	●	○
		PC9430									
	DNMG150408-MT	PC9530	●	●	●	●	●	●	●	●	●
	DNMG150408	PC101									
	DNMG150608										
	SNMG120404-GF										
	SNMG120408-GF										
	SNMG120404-HA										
	SNMG120408-FW										

● DNMG15-WS - wiper insert

● Main Grade |

○ Optional Grades |



## TURNING INSERTS

Appearance	Designation	Grade											
		P	K				M/S		N				
SNMG120408-GM	PC8310	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120404-MA	PC8320	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120408-MA	PC8325	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120412-MA	PC8410	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120404-MP	PC8420	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120412-OMM	PC8615	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120404-TM	PC8625E	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120408-TM	PC7310	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120412-TM	PC7410	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120408-T	PC7415	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120404R-ZC	PC7415E	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120408R-ZC	PC7615	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120412R-ZC	PC9330	○	○	○	●	●	●	●	○	●	○	●	●
SNMG150612R-ZC	PC9430	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120404L-ZC	PC9530	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120408L-ZC	PC1011	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120412L-ZC	PC1011	○	○	○	●	●	●	●	○	●	○	●	●
SNMG150612L-ZC	PC1011	○	○	○	●	●	●	●	○	●	○	●	●
SNMG120408	PC1011	○	○	○	●	●	●	●	○	●	○	●	●

● Main Grade |

○ Optional Grades |



## TURNING INSERTS

Appearance	Designation	Grade											
		P	K				M/S		N				
	SNMG150612-MT	PC8310 ○ ○	○ ● ●		● ●	○ ● ○ ●							
	SNMM150612-GZ	PC8320 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160404-EA	PC8325 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160408-EA	PC8410 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160404-MF	PC8420 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160408-MF1	PC8615 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160404-43	PC8625E ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160408-43	PC7310 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160412-43	PC7410 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160404R-FS	PC7415 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160408R-FS	PC7415E ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160404L-FS	PC7615 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160408L-FS	PC9330 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160408-EM	PC9430 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160408-GM	PC9530 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						
	TNMG160412-GM	PC101 ○ ○	○ ● ●		● ●	○ ● ○ ○	●						

● Main Grade |

○ Optional Grades |



## TURNING INSERTS

Appearance	Designation	Grade									
		P	K			M/S		N			
(Top Left)	TNMG160404-MA	PC8310									
	TNMG160408-MA	○	○	○	○	○	○	○	○	○	○
	TNMG160412-MA	○	○	○	○	○	●	●	●	●	●
(Top Middle)	TNMG160404-PC	○	○	○	○	○	●	●	●	○	●
	TNMG160408-PC	○	○	○	○	○	●	●	●	○	●
(Top Right)	TNMG160408-TM	○	○	○	●	●	●	●	○	●	●
(Second Row Left)	TNMG160404R-VF	○	○	○	●	●	●	●	○	●	●
	TNMG160408R-VF	○	○	○	●	●	●	●	○	●	●
(Second Row Middle)	TNMG160404L-VF	○	○	○	●	●	●	●	○	●	●
	TNMG160408L-VF	○	○	○	●	●	●	●	○	●	●
(Third Row Left)	TNMG160408-BF	○	○	○	●	●	●	●	○	●	●
(Third Row Middle)	TNMG160404	○	○	○	●	●	●	●	○	●	●
	TNMG160408	○	○	○	●	●	●	●	○	●	●
(Fourth Row Left)	TNMA160408	○	○	○	●	●	●	●	○	●	●
(Fourth Row Middle)	VNMG160404-EA	○	○	○	●	●	●	●	○	●	●
(Fourth Row Right)	VNMG160404-43	○	○	○	●	●	●	●	○	●	●
	VNMG160408-43	○	○	○	●	●	●	●	○	●	●
	VNMG160412-43	○	○	○	●	●	●	●	○	●	●

● Main Grade |

○ Optional Grades |

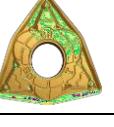
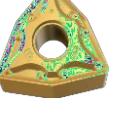
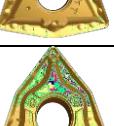


## TURNING INSERTS

Appearance	Designation	Grade											
		P	K				M/S		N				
	VNMG160408-EM	PC8310	○	○	○	●	●	●	●	○	●	○	●
	VNMG160408-MA	PC8320	○	○	○	●	●	●	●	○	●	○	●
	VNMG160404-PC	PC8325	○	○	○	●	●	●	●	○	●	○	●
	VNMG160408-PC	PC8410	○	○	○	●	●	●	●	○	●	○	●
	VNMG160404-TM	PC8420	○	○	○	●	●	●	●	○	●	○	●
	VNMG160408-TM	PC8625E	○	○	○	●	●	●	●	○	●	○	●
	VNMG160412-TM	PC86310	○	○	○	●	●	●	●	○	●	○	●
	VNMG160408-TM1	PC7310	○	○	○	●	●	●	●	○	●	○	●
	VNMG160408	PC7410	○	○	○	●	●	●	●	○	●	○	●
	VNMG160412	PC7415	○	○	○	●	●	●	●	○	●	○	●
	WNMG080404-EA	PC7415E	○	○	○	●	●	●	●	○	●	○	●
	WNMG080408-GF	PC7615	○	○	○	●	●	●	●	○	●	○	●
	WNMG080404-SF	PC9330	○	○	○	●	●	●	●	○	●	○	●
	WNMG080408-SF	PC9430	○	○	○	●	●	●	●	○	●	○	●
		PC9530											
		PC101											

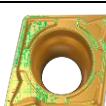
● Main Grade |

○ Optional Grades |

Appearance	Designation	Grade															
		P					K				M/S	N					
		PC8310	PC8320	PC8325	PC8410	PC8420	PC8615	PC8625	PC8625E	PC7310	PC7410	PC7415	PC7415E	PC7615	PC9330	PC9430	PC9530
	WNMG080404-43	○	○			○	●	●									
	WNMG080408-43	○	○			○	●	●									
	WNMG080412-43	○	○			○	●	●									
	WNMG060408-EM	○	○			○	●	●									
	WNMG060412-EM	○	○			○	●	●									
	WNMG080404-EM	○	○			○	●	●									
	WNMG080408-EM	○	○			○	●	●				●	●	○	●	○	●
	WNMG080412-EM	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080408-GM	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080412-GM	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG060408-MA	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG060412-MA	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080404-MA	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080408-MA	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080412-MA	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080408-MF1	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080412-MF1	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080404-MT	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080408-MT	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080408-PC	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080412-PC	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080408-PM	○	○			○	●	●			●	●	○	●	○	●	●
	WNMG080412-PM	○	○			○	●	●			●	●	○	●	○	●	●

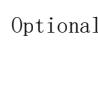
● Main Grade |

○ Optional Grades |

Appearance	Designation	Grade													
		P					K			M/S		N			
		PC8310	PC8320	PC8325	PC8410	PC8420	PC8615	PC8625E	PC7310	PC7410	PC7415E	PC7615	PC9330	PC9430	PC9530
	WNMG080404-TM	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080408-TM	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080412-TM	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080404R-ZC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080408R-ZC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080412R-ZC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080404L-ZC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080408L-ZC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080412L-ZC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080404	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080408	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMG080412	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMA080408	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	WNMA080412	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT09T308-PF	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT060204-MT	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT060208-MT	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT09T304-MT	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT09T308-MT	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT120408-MT	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT060204-PC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT060208-PC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT09T304-PC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT09T308-PC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT120404-PC	○	○	○	○	○	●	●	○	●	●	○	●	○	●
	CCMT120408-PC	○	○	○	○	○	●	●	○	●	●	○	●	○	●

● Main Grade |

○ Optional Grades |

Appearance	Designation	Grade													
		P					K			M/S		N			
		PC8310	PC8320	PC8325	PC8410	PC8420	PC8615	PC8625E	PC7310	PC7410	PC7415E	PC7615	PC9330	PC9430	PC9530
	CCMT09T308	○					●	●		●	●				
	CCMT120408	○	○				○	●	●	●	●	○	●	○	●
	DCMT11T304-PP	○	○				○	●	●	●	●	○	●	○	●
	DCMT11T304-MT	○	○				○	●	●	●	●	○	●	○	●
	DCMT11T308-MT	○	○				○	●	●	●	●	○	●	○	●
	DCMT070204-PC	○	○				○	●	●	●	●	○	●	○	●
	DCMT070208-PC	○	○				○	●	●	●	●	○	●	○	●
	DCMT11T304-PC	○	○				○	●	●	●	●	○	●	○	●
	DCMT11T308-PC	○	○				○	●	●	●	●	○	●	○	●
	RCMT1606MOUPG	○	○				○	●	●	●	●	○	●	○	●
	RCKT1606MO-ER	○	○				○	●	●	●	●	○	●	○	●
	SCMT09T304-MT	○	○				○	●	●	●	●	○	●	○	●
	SCMT09T308-MT	○	○				○	●	●	●	●	○	●	○	●
	SCMT120404-MT	○	○				○	●	●	●	●	○	●	○	●
	SCMT120408-MT	○	○				○	●	●	●	●	○	●	○	●
	SCMT09T304-PC	○	○				○	●	●	●	●	○	●	○	●
	SCMT09T308-PC	○	○				○	●	●	●	●	○	●	○	●
	SCMT120404-PC	○	○				○	●	●	●	●	○	●	○	●
	SCMT120408-PC	○	○				○	●	●	●	●	○	●	○	●

● Main Grade |

○ Optional Grades |



## TURNING INSERTS

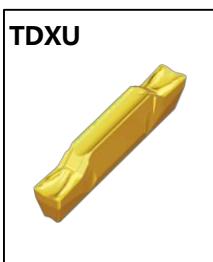
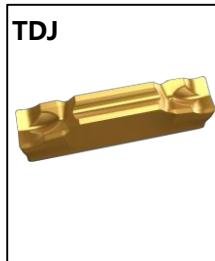
Appearance	Designation	Grade											
		P	K				M/S		N				
	TCMT110202-FA	PC8310	○	○	○	●	●	●	●	○	●	○	●
		PC8320											
	TCMT110204-MT	PC8325	○	○	○	●	●	●	●	○	●	○	●
	TCMT16T308-MT	PC8410	○	○	○	●	●	●	●	○	●	○	●
	TCMT090204-PC	PC8420	○	○	○	●	●	●	●	○	●	○	●
	TCMT110204-PC	PC8625E	○	○	○	●	●	●	●	○	●	○	●
	TCMT110208-PC	PC8625E	○	○	○	●	●	●	●	○	●	○	●
	TCMT16T304-PC	PC8625E	○	○	○	●	●	●	●	○	●	○	●
	TCMT16T308-PC	PC8625E	○	○	○	●	●	●	●	○	●	○	●
	VBMT160408-FG	PC7310	○	○	○	●	●	●	●	○	●	○	●
		PC7410											
	VBMT160408-MT	PC7415	○	○	○	●	●	●	●	○	●	○	●
		PC7415E											
	VBMT160404-PC	PC7615	○	○	○	●	●	●	●	○	●	○	●
	VBMT160408-PC	PC9330	○	○	○	●	●	●	●	○	●	○	●
	VBMT160412-PC	PC9430	○	○	○	●	●	●	●	○	●	○	●
	VCMT110304-PC	PC9530	○	○	○	●	●	●	●	○	●	○	●
	VCMT110308-PC	PC101											
	VCMT160404-PC	PC101	○	○	○	●	●	●	●	○	●	○	●
	VCMT160408-PC	PC101	○	○	○	●	●	●	●	○	●	○	●

● Main Grade |

○ Optional Grades |



## GROOVING INSERTS





## GROOVING INSERTS

Appearance	Designation	Grade									
		P	K	M/S	N						
	TDC2	○	PC8310	●							
	TDC3	○	●								
	TDC4	○	●								
	TDC5	○	●								
	TDC6	○	●								
	TDJ2	○	●								
	TDJ3	○	●								
	TDJ4	○	●								
	TDJ5	○	●								
	TDJ6	○	●								
	MGMN200-M	○	●								
	MGMN250-M	○	●								
	MGMN300-M	○	●								
	MGMN400-M	○	●								
	MGMN500-M	○	●								
	MGMN600-M	○	●								
	MGMN800-M	○	●								
	MRMN200-M	○	●								
	MRMN300-M	○	●								
	MRMN400-M	○	●								
	MRMN500-M	○	●								
	MRMN600-M	○	●								
	TDT2E-1.0-RU	○	●								
	TDT3E-1.5-RU	○	●								
	TDT4E-2.0-RU	○	●								
	TDT5E-2.5-RU	○	●								
	TDT6E-3.0-RU	○	●								

● Main Grade |

○ Optional Grades |



## GROOVING INSERTS

Appearance	Designation	Grade									
		P					K			M/S	
	TDXU 2E-0.3	○	PC8310	●							
	TDXU 3E-0.3	○	PC8320								
	TDXU 4E-0.4	○	PC8325								
	TDXU 4E-0.8	○	PC8410	●							
	TDXU 5E-0.4	○	PC8420								
	TDXU 5E-0.8	○	PC8615								
	TDXU 6E-0.4	○	PC8625								
	TDXU 6E-0.8	○	PC8625E								
	TDXU 8E-0.8	○	PC7310	●							
			PC7410								
			PC7415								
			PC7415E								
			PC7615								
			PC9330								
			PC9430								
			PC9530								
			PC101								

● Main Grade |

○ Optional Grades |



## GROOVING INSERTS

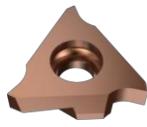
Appearance	Designation	Grade												
		P					K			M/S				
		PC8310	PC8320	PC8325	PC8410	PC8420	PC8625E	PC7310	PC7410	PC7415E	PC7615	PC9330	PC9430	PC9530
	GBA32L110-010	○	●											
	GBA32L125-020	○	●		○	●		○	●		●	●	●	
	GBA32L145-020	○	●		○	●		○	●		●	●	●	
	GBA32L150-020	○	●		○	●		○	●		●	●	●	
	GBA32L175-020	○	●		○	●		○	●		●	●	●	
	GBA32L185-020	○	●		○	●		○	●		●	●	●	
	GBA32L200-020	○	●		○	●		○	●		●	●	●	
	GBA32L250-020	○	●		○	●		○	●		●	●	●	
	GBA32L300-020	○	●		○	●		○	●		●	●	●	
	GBA43L125-020	○	●		○	●		○	●		●	●	●	
	GBA43L145-020	○	●		○	●		○	●		●	●	●	
	GBA43L150-020	○	●		○	●		○	●		●	●	●	
	GBA43L175-020	○	●		○	●		○	●		●	●	●	
	GBA43L185-020	○	●		○	●		○	●		●	●	●	
	GBA43L200-020	○	●		○	●		○	●		●	●	●	
	GBA43L230-020	○	●		○	●		○	●		●	●	●	
	GBA43L250-030	○	●		○	●		○	●		●	●	●	
	GBA43L265-030	○	●		○	●		○	●		●	●	●	
	GBA43L280-030	○	●		○	●		○	●		●	●	●	
	GBA43L300-030	○	●		○	●		○	●		●	●	●	
	GBA43L320-030	○	●		○	●		○	●		●	●	●	
	GBA43L330-030	○	●		○	●		○	●		●	●	●	
	GBA43L350-030	○	●		○	●		○	●		●	●	●	
	GBA43L400-040	○	●		○	●		○	●		●	●	●	
	GBA43L430-040	○	●		○	●		○	●		●	●	●	
	GBA43L450-040	○	●		○	●		○	●		●	●	●	
	GBA43L480-040	○	●		○	●		○	●		●	●	●	

● Main Grade |

○ Optional Grades |



## GROOVING INSERTS

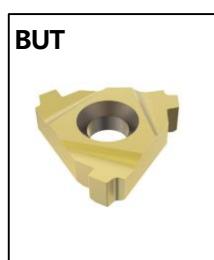
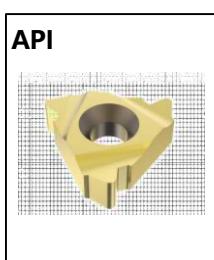
Appearance	Designation	Grade												
		P					K			M/S				
		PC8310	PC8320	PC8325	PC8410	PC8420	PC8625E	PC7310	PC7410	PC7415E	PC7615	PC9330	PC9430	PC9530
	GBA32R110-010	○	●											
	GBA32R125-020	○	●		○	●		○	●		●	●	●	
	GBA32R145-020	○	●		○	●		○	●		●	●	●	
	GBA32R150-020	○	●		○	●		○	●		●	●	●	
	GBA32R175-020	○	●		○	●		○	●		●	●	●	
	GBA32R185-020	○	●		○	●		○	●		●	●	●	
	GBA32R200-020	○	●		○	●		○	●		●	●	●	
	GBA32R250-020	○	●		○	●		○	●		●	●	●	
	GBA32R300-020	○	●		○	●		○	●		●	●	●	
	GBA43R125-020	○	●		○	●		○	●		●	●	●	
	GBA43R145-020	○	●		○	●		○	●		●	●	●	
	GBA43R150-020	○	●		○	●		○	●		●	●	●	
	GBA43R175-020	○	●		○	●		○	●		●	●	●	
	GBA43R185-020	○	●		○	●		○	●		●	●	●	
	GBA43R200-020	○	●		○	●		○	●		●	●	●	
	GBA43R230-020	○	●		○	●		○	●		●	●	●	
	GBA43R250-030	○	●		○	●		○	●		●	●	●	
	GBA43R265-030	○	●		○	●		○	●		●	●	●	
	GBA43R280-030	○	●		○	●		○	●		●	●	●	
	GBA43R300-030	○	●		○	●		○	●		●	●	●	
	GBA43R320-030	○	●		○	●		○	●		●	●	●	
	GBA43L330-030	○	●		○	●		○	●		●	●	●	
	GBA43L350-030	○	●		○	●		○	●		●	●	●	
	GBA43L400-040	○	●		○	●		○	●		●	●	●	
	GBA43L430-040	○	●		○	●		○	●		●	●	●	
	GBA43L450-040	○	●		○	●		○	●		●	●	●	
	GBA43L480-040	○	●		○	●		○	●		●	●	●	

● Main Grade |

○ Optional Grades |



## THREAD TURNING INSERTS





## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	Partial Profile 60-External Threading	11ER A60	●	Partial Profile 60-Internal Threading	06NR A60	●	
		16ER A60	●		08NR A60	●	
		16ER AG60	●		11NR A60	●	
		16ER G60	●		16NR A60	●	
		22ER N60	●		16NR AG60	●	
		27ER Q60	●		16NR G60	●	
		11EL A60	●		22NR N60	●	
		16ER A60	●		27NR Q60	●	
		16EL AG60	●		06NL A60	●	
		16EL G60	●		08NL A60	●	
		22EL N60	●		11NL A60	●	
		27EL Q60	●		16NL A60	●	
					16NL AG60	●	
					16NL G60	●	
					22NL N60	●	
					27NL Q60	●	
	Partial Profile 55-External Threading	11ER A55	●	Partial Profile 55-Internal Threading	06NR A55	●	
		16ER A55	●		08NR A55	●	
		16ER AG55	●		11NR A55	●	
		16ER G55	●		16NR A55	●	
		22ER N55	●		16NR AG55	●	
		27ER Q55	●		16NR G55	●	
		11EL A55	●		22NR N55	●	
		16EL A55	●		27NR Q55	●	
		16EL AG55	●		06NL A55	●	
		16EL G55	●		08NL A55	●	
		22EL N55	●		11NL A55	●	
		27EL Q55	●		16NL A55	●	
					16NL AG55	●	
					16NL G55	●	
					22NL N55	●	
					27NL Q55	●	



## THREAD TURNING INSERTS

			Grade			Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC
	ISO Metric - External Threading	11ER0.50 ISO	●	ISO Metric - Internal Threading	06NR0.50 ISO	●
		11ER0.75 ISO	●		06NR0.75 ISO	●
		11ER1.00 ISO	●		06NR1.00 ISO	●
		11ER1.25 ISO	●		06NR1.25 ISO	●
		11ER1.50 ISO	●		08NR0.50 ISO	●
		11ER1.75 ISO	●		08NR0.75 ISO	●
		16ER0.50 ISO	●		08NR1.00 ISO	●
		16ERO.75 ISO	●		08NR1.25 ISO	●
		16ER1.00 ISO	●		08NR1.50 ISO	●
		16ER1.25 ISO	●		08NR1.75 ISO	●
		16ER1.50 ISO	●		11NR0.50 ISO	●
		16ER1.75 ISO	●		11NR0.75 ISO	●
		16ER2.00 ISO	●		11NR1.00 ISO	●
		16ER2.50 ISO	●		11NR1.25 ISO	●
		16ER3.00 ISO	●		11NR1.50 ISO	●
		22ER3.50 ISO	●		11NR1.75 ISO	●
		22ER4.00 ISO	●		11NR2.00 ISO	●
		22ER4.50 ISO	●		16NR0.50 ISO	●
		22ER5.00 ISO	●		16NR0.75 ISO	●
		27ER5.50 ISO	●		16NR1.00 ISO	●
		27ER6.00 ISO	●		16NR1.25 ISO	●
					16NR1.50 ISO	●
					16NR1.75 ISO	●
					16NR2.00 ISO	●
					16NR2.50 ISO	●
					16NR3.00 ISO	●
					22NR3.50 ISO	●
					22NR4.00 ISO	●
					22NR4.50 ISO	●
					22NR5.00 ISO	●
					27NR5.50 ISO	●
					27NR6.00 ISO	●



## THREAD TURNING INSERTS

			Grade			Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC
	ISO Metric - External Threading	11EL0.50 ISO	●	ISO Metric - Internal Threading	06NL0.50 ISO	●
		11EL0.75 ISO	●		06NL0.75 ISO	●
		11EL1.00 ISO	●		06NL1.00 ISO	●
		11EL1.25 ISO	●		06NL1.25 ISO	●
		11EL1.50 ISO	●		08NL0.50 ISO	●
		11EL1.75 ISO	●		08NL0.75 ISO	●
		16EL0.50 ISO	●		08NL1.00 ISO	●
		16EL0.75 ISO	●		08NL1.25 ISO	●
		16EL1.00 ISO	●		08NL1.50 ISO	●
		16EL1.25 ISO	●		08NL1.75 ISO	●
		16EL1.50 ISO	●		11NL0.50 ISO	●
		16EL1.75 ISO	●		11NL0.75 ISO	●
		16EL2.00 ISO	●		11NL1.00 ISO	●
		16EL2.50 ISO	●		11NL1.25 ISO	●
		16EL3.00 ISO	●		11NL1.50 ISO	●
		22EL3.50 ISO	●		11NL1.75 ISO	●
		22EL4.00 ISO	●		11NL2.00 ISO	●
		22EL4.50 ISO	●		16NL0.50 ISO	●
		22EL5.00 ISO	●		16NL0.75 ISO	●
		27EL5.50 ISO	●		16NL1.00 ISO	●
		27EL6.00 ISO	●		16NL1.25 ISO	●
					16NL1.50 ISO	●
					16NL1.75 ISO	●
					16NL2.00 ISO	●
					16NL2.50 ISO	●
					16NL3.00 ISO	●
					22NL3.50 ISO	●
					22NL4.00 ISO	●
					22NL4.50 ISO	●
					22NL5.00 ISO	●
					27NL5.50 ISO	●
					27NL6.00 ISO	●



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	UN -External Threading	11ER32 UN	●	UN -Internal Threading	06NR32 UN	●	
		11ER28 UN	●		06NR28 UN	●	
		11ER24 UN	●		06NR24 UN	●	
		11ER20 UN	●		06NR20 UN	●	
		11ER18 UN	●		06NR18 UN	●	
		11ER16 UN	●		08NR32 UN	●	
		16ER32 UN	●		08NR28 UN	●	
		16ER28 UN	●		08NR24 UN	●	
		16ER24 UN	●		08NR20 UN	●	
		16ER20 UN	●		08NR18 UN	●	
		16ER18 UN	●		08NR16 UN	●	
		16ER16 UN	●		08NR14 UN	●	
		16ER14 UN	●		11NR32 UN	●	
		16ER13 UN	●		11NR28 UN	●	
		16ER12 UN	●		11NR24 UN	●	
		16ER11.5 UN	●		11NR20 UN	●	
		16ER11 UN	●		11NR18 UN	●	
		16ER10 UN	●		11NR16 UN	●	
		16ER9 UN	●		16NL32 UN	●	
		16ER8 UN	●		16NL28 UN	●	
		22ER7 UN	●		16NL24 UN	●	
		22ER6 UN	●		16NL20 UN	●	
		22ER5 UN	●		16NL18 UN	●	
		27ER4.5 UN	●		16NL16 UN	●	
		27ER4 UN	●		16NL14 UN	●	
					16NL13 UN	●	
					16NL12 UN	●	
					16NL11 UN	●	
					16NL10 UN	●	
					16NL9 UN	●	
					16NL8 UN	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	UN -External Threading			UN -Internal Threading	22NR7 UN	●	
					22NR6 UN	●	
					22NR5 UN	●	
					27NR4.5 UN	●	
					27NR4 UN	●	
	UN -External Threading	11EL32 UN	●	UN -Internal Threading	06NL32 UN	●	
		11EL28 UN	●		06NL28 UN	●	
		11EL24 UN	●		06NL24 UN	●	
		11EL20 UN	●		06NL20 UN	●	
		11EL18 UN	●		06NL18 UN	●	
		11EL16 UN	●		08NL32 UN	●	
		16EL32 UN	●		08NL28 UN	●	
		16EL28 UN	●		08NL24 UN	●	
		16EL24 UN	●		08NL20 UN	●	
		16EL20 UN	●		08NL18 UN	●	
		16EL18 UN	●		08NL16 UN	●	
		16EL16 UN	●		08NL14 UN	●	
		16EL14 UN	●		11NL32 UN	●	
		16EL13 UN	●		11NL28 UN	●	
		16EL12 UN	●		11NL24 UN	●	
		16EL11.5 UN	●		11NL20 UN	●	
		16EL11 UN	●		11NL18 UN	●	
		16EL10 UN	●		11NL16 UN	●	
		16EL9 UN	●		16NL32 UN	●	
		16EL8 UN	●		16NL28 UN	●	
		22EL7 UN	●		16NL24 UN	●	
		22EL6 UN	●		16NL20 UN	●	
		22EL5 UN	●		16NL18 UN	●	
		27EL4.5 UN	●		16NL16 UN	●	
		27EL4 UN	●		16NL14 UN	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
A small icon of a yellow thread turning insert with a central hole and two cutting edges.	UN -External Threading			UN -Internal Threading	16NL13 UN	●	
					16NL12 UN	●	
					16NL11 UN	●	
					16NL10 UN	●	
					16NL9 UN	●	
					16NL8 UN	●	
					22NL7 UN	●	
					22NL6 UN	●	
					22NL5 UN	●	
					27NL4.5 UN	●	
					27NL4 UN	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	UNJ - External Threading	11ER28 UNJ	●	UNJ - Internal Threading	11NR28 UNJ	●	
		11ER24 UNJ	●		11NR24 UNJ	●	
		11ER20 UNJ	●		11NR20 UNJ	●	
		11ER18 UNJ	●		11NR18 UNJ	●	
		11ER16 UNJ	●		11NR16 UNJ	●	
		11ER14 UNJ	●		11NR14 UNJ	●	
		16ER28 UNJ	●		16NR28 UNJ	●	
		16ER24 UNJ	●		16NR24 UNJ	●	
		16ER20 UNJ	●		16NR20 UNJ	●	
		16ER18 UNJ	●		16NR18 UNJ	●	
		16ER16 UNJ	●		16NR16 UNJ	●	
		16ER14 UNJ	●		16NR14 UNJ	●	
		16ER13 UNJ	●		16NR13 UNJ	●	
		16ER12 UNJ	●		16NR12 UNJ	●	
		16ER11 UNJ	●		16NR11 UNJ	●	
		16ER10 UNJ	●		16NR10 UNJ	●	
		16ER9 UNJ	●		16NR9 UNJ	●	
		16ER8 UNJ	●		16NR8 UNJ	●	
		22ER7 UNJ	●		22NR7 UNJ	●	
		22ER6 UNJ	●		22NR6 UNJ	●	
		22ER5 UNJ	●		22NR5 UNJ	●	
		27ER4.5 UNJ	●		27NR4.5 UNJ	●	
		27ER4 UNJ	●		27NR4 UNJ	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	UNJ - External Threading	11EL28 UNJ	●	UNJ - Internal Threading	11NL28 UNJ	●	
		11EL24 UNJ	●		11NL24 UNJ	●	
		11EL20 UNJ	●		11NL20 UNJ	●	
		11EL18 UNJ	●		11NL18 UNJ	●	
		11EL16 UNJ	●		11NL16 UNJ	●	
		11EL14 UNJ	●		11NL14 UNJ	●	
		16EL28 UNJ	●		16NL28 UNJ	●	
		16EL24 UNJ	●		16NL24 UNJ	●	
		16EL20 UNJ	●		16NL20 UNJ	●	
		16EL18 UNJ	●		16NL18 UNJ	●	
		16EL16 UNJ	●		16NL16 UNJ	●	
		16EL14 UNJ	●		16NL14 UNJ	●	
		16EL13 UNJ	●		16NL13 UNJ	●	
		16EL12 UNJ	●		16NL12 UNJ	●	
		16EL11 UNJ	●		16NL11 UNJ	●	
		16EL10 UNJ	●		16NL10 UNJ	●	
		16EL9 UNJ	●		16NL9 UNJ	●	
		16EL8 UNJ	●		16NL8 UNJ	●	
		22EL7 UNJ	●		22NL7 UNJ	●	
		22EL6 UNJ	●		22NL6 UNJ	●	
		22EL5 UNJ	●		22NL5 UNJ	●	
		27EL4.5 UNJ	●		27NL4.5 UNJ	●	
		27EL4 UNJ	●		27NL4 UNJ	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	Whitworth,B SW- ExternalThre ading	11ER28 W	●	Whitworth,B SW- InternalThre ading	06NR26 W	●	
		11ER26 W	●		06NR22 W	●	
		11ER20 W	●		06NR20 W	●	
		11ER19 W	●		06NR18 W	●	
		11ER18 W	●		08NR28 W	●	
		11ER16 W	●		08NR24 W	●	
		11ER14 W	●		08NR20W	●	
		16ER28 W	●		08NR19 W	●	
		16ER26 W	●		08NR18 W	●	
		16ER20 W	●		08NR16 W	●	
		16ER19 W	●		11NR28 W	●	
		16ER18 W	●		11NR26 W	●	
		16ER16 W	●		11NR20 W	●	
		16ER14 W	●		11NR19 W	●	
		16ER12 W	●		11NR18 W	●	
		16ER11 W	●		11NR16 W	●	
		16ER10 W	●		11NR14 W	●	
		16ER9 W	●		16NR28 W	●	
		16ER8 W	●		16NR26 W	●	
		22ER7W	●		16NR20 W	●	
		22ER6 W	●		16NR19 W	●	
		22ER5 W	●		16NR18 W	●	
		27ER4.5 W	●		16NR16 W	●	
		27ER4 W	●		16NR14 W	●	
					16NR12 W	●	
					16NR11 W	●	
					16NR10 W	●	
					16NR9 W	●	
					16NR8 W	●	
					22NR7 W	●	
					22NR6 W	●	
					22NR5 W	●	
					27NR4.5 W	●	
					27NR4 W	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	Whitworth,B SW- ExternalThre ading	11EL28 W	●	Whitworth,B SW- InternalThre ading	06NL26 W	●	
		11EL26 W	●		06NL22 W	●	
		11EL20 W	●		06NL20 W	●	
		11EL19 W	●		06NL18 W	●	
		11EL18 W	●		08NL28 W	●	
		11EL16 W	●		08NL24 W	●	
		11EL14 W	●		08NL20 W	●	
		16EL28 W	●		08NL19 W	●	
		16EL26 W	●		08NL18 W	●	
		16EL20 W	●		08NL16 W	●	
		16EL19 W	●		11NL28 W	●	
		16EL18 W	●		11NL26 W	●	
		16EL16 W	●		11NL20 W	●	
		16EL14 W	●		11NL19 W	●	
		16EL12 W	●		11NL18 W	●	
		16EL11 W	●		11NL16 W	●	
		16EL10 W	●		11NL14 W	●	
		16EL9 W	●		16NL28 W	●	
		16EL8 W	●		16NL26 W	●	
		22EL7 W	●		16NL20 W	●	
		22EL6 W	●		16NL19 W	●	
		22EL5 W	●		16NL18 W	●	
		27EL4.5 W	●		16NL16 W	●	
		27EL4 W	●		16NL14 W	●	
					16NL12 W	●	
					16NL11 W	●	
					16NL10 W	●	
					16NL9 W	●	
					16NL8 W	●	
					22NL7 W	●	
					22NL6 W	●	
					22NL5 W	●	
					27NL4.5 W	●	
					27NL4 W	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	NPTF-ExternalThreading	11ER27 NPTF	●	NPTF-InternalThreading	06NR27 NPTF	●	
		11ER18 NPTF	●		08NR27 NPTF	●	
		11ER14 NPTF	●		08NR18 NPTF	●	
		16ER27 NPTF	●		11NR27 NPTF	●	
		16ER18 NPTF	●		11NR18 NPTF	●	
		16ER14 NPTF	●		11NR14 NPTF	●	
		16ER11.5 NPTF	●		16NR27 NPTF	●	
		16ER8 NPTF	●		16NR18 NPTF	●	
		11EL27 NPTF	●		16NR14 NPTF	●	
		11EL18 NPTF	●		16NR11.5 NPTF	●	
		11EL14 NPTF	●		16NR8 NPTF	●	
		16EL27 NPTF	●		06NL27 NPTF	●	
		16EL18 NPTF	●		08NL27 NPTF	●	
		16EL14 NPTF	●		08NL18 NPTF	●	
		16EL11.5 NPTF	●		11NL27 NPTF	●	
		16EL8 NPTF	●		11NL18 NPTF	●	
					11NL14 NPTF	●	
					16NL27 NPTF	●	
					16NL18 NPTF	●	
					16NL14 NPTF	●	
					16NL11.5 NPTF	●	
					16NL8 NPTF	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	NPT-ExternalThreading	11ER27 NPT	●	NPT-ExternalThreading	06NR27 NPT	●	
		11ER18 NPT	●		08NR27 NPT	●	
		11ER14 NPT	●		08NR18 NPT	●	
		16ER27 NPT	●		11NR27 NPT	●	
		16ER18 NPT	●		11NR18 NPT	●	
		16ER14 NPT	●		11NR14 NPT	●	
		16ER11.5 NPT	●		16NR27 NPT	●	
		16ER8 NPT	●		16NR18 NPT	●	
		11EL27 NPT	●		16NR14 NPT	●	
		11EL18 NPT	●		16NR11.5 NPT	●	
		11EL14 NPT	●		16NR8 NPT	●	
		16EL27 NPT	●		06NL27 NPT	●	
		16EL18 NPT	●		08NL27 NPT	●	
		16EL14 NPT	●		08NL18 NPT	●	
		16EL11.5 NPT	●		11NL27 NPT	●	
		16EL8 NPT	●		11NL18 NPT	●	
					11NL14 NPT	●	
					16NL27 NPT	●	
					16NL18 NPT	●	
					16NL14 NPT	●	
					16NL11.5 NPT	●	
					16NL8 NPT	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	BSPT - External Threading	11ER28 BSPT	●	BSPT - Internal Threading	06NR28 BSPT	●	
		11ER19 BSPT	●		08NR28 BSPT	●	
		11ER14 BSPT	●		08NR19 BSPT	●	
		16ER28 BSPT	●		11NR28 BSPT	●	
		16ER19 BSPT	●		11NR19 BSPT	●	
		16ER14 BSPT	●		11NR14 BSPT	●	
		16ER11 BSPT	●		16NR28 BSPT	●	
		11EL28 BSPT	●		16NR19 BSPT	●	
		11EL19 BSPT	●		16NR14 BSPT	●	
		11EL14 BSPT	●		16NR11 BSPT	●	
		16EL28 BSPT	●		06NL28 BSPT	●	
		16EL19 BSPT	●		08NL28 BSPT	●	
		16EL14 BSPT	●		08NL19 BSPT	●	
		16EL11 BSPT	●		11NL28 BSPT	●	
					11NL19 BSPT	●	
					11NL14 BSPT	●	
					16NL28 BSPT	●	
					16NL19 BSPT	●	
					16NL14 BSPT	●	
					16NL11 BSPT	●	



## THREAD TURNING INSERTS

			Grade			Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC
ACME-External Threading	ACME-External Threading	16ER16 ACME	●	ACME-Internal Threading	16NR16 ACME	●
		16ER14 ACME	●		16NR14 ACME	●
		16ER12 ACME	●		16NR12 ACME	●
		16ER10 ACME	●		16NR10 ACME	●
		16ER8 ACME	●		16NR8 ACME	●
		22ER6 ACME	●		22NR6 ACME	●
		22ER5 ACME	●		22NR5 ACME	●
		27ER4 ACME	●		27NR4 ACME	●
		16EL16 ACME	●		16NL16 ACME	●
		16EL14 ACME	●		16NL14 ACME	●
		16EL12 ACME	●		16NL12 ACME	●
		16EL10 ACME	●		16NL10 ACME	●
		16EL8 ACME	●		16NL8 ACME	●
		22EL6 ACME	●		22NL6 ACME	●
		22EL5 ACME	●		22NL5 ACME	●
		27EL4 ACME			27NL4 ACME	●
Stub-ACME-External Threading	Stub-ACME-External Threading	16ER16 STACME	●	Stub-ACME-Internal Threading	16NR16 STACME	●
		16ER14 STACME	●		16NR14 STACME	●
		16ER12 STACME	●		16NR12 STACME	●
		16ER10 STACME	●		16NR10 STACME	●
		16ER8 STACME	●		16NR8 STACME	●
		16ER6 STACME	●		16NR6 STACME	●
		22ER5 STACME	●		22NR5 STACME	●
		27ER4 STACME	●		27NR4 STACME	●
		27ER3 STACME	●		27NR3 STACME	●
		16EL16 STACME	●		16NL16 STACME	●
		16EL14 STACME	●		16NL14 STACME	●
		16EL12 STACME	●		16NL12 STACME	●
		16EL10 STACME	●		16NL10 STACME	●
		16EL8 STACME	●		16NL8 STACME	●
		16EL6 STACME	●		16NL6 STACME	●
		22EL5 STACME	●		22NL5 STACME	●
		27EL4 STACME	●		27NL4 STACME	●
		27EL3 STACME	●		27NL3 STACME	●



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	TR-DIN 103-External Threading	16ER1.5 TR	●	TR-DIN 103-Internal Threading	16NR1.5 TR	●	
		16ER2.0 TR	●		16NR2.0 TR	●	
		16ER3.0 TR	●		16NR3.0 TR	●	
		22ER4.0 TR	●		22NR4.0 TR	●	
		22ER5.0 TR	●		22NR5.0 TR	●	
		27ER6.0 TR	●		27NR6.0 TR	●	
		27ER7.0 TR	●		27NR7.0 TR	●	
		16EL1.5 TR	●		16NL1.5 TR	●	
		16EL2.0 TR	●		16NL2.0 TR	●	
		16EL3.0 TR	●		16NL3.0 TR	●	
		22EL4.0 TR	●		22NL4.0 TR	●	
		22EL5.0 TR	●		22NL5.0 TR	●	
		27EL6.0 TR	●		27NL6.0 TR	●	
		27EL7.0 TR	●		27NL7.0 TR	●	
	ABUT-External Threading	11ER20 ABUT	●	ABUT-Internal Threading	11NR20 ABUT	●	
		11ER16 ABUT	●		11NR16 ABUT	●	
		16ER20 ABUT	●		16NR20 ABUT	●	
		16ER16 ABUT	●		16NR16 ABUT	●	
		16ER12 ABUT	●		16NR12 ABUT	●	
		16ER10 ABUT	●		16NR10 ABUT	●	
		22ER8 ABUT	●		22NR8 ABUT	●	
		22ER6 ABUT	●		22NR6 ABUT	●	
		11EL20 ABUT	●		11NL20 ABUT	●	
		11EL16 ABUT	●		11NL16 ABUT	●	
		16EL20 ABUT	●		16NL20 ABUT	●	
		16EL16 ABUT	●		16NL16 ABUT	●	
		16EL12 ABUT	●		16NL12 ABUT	●	
		16EL10 ABUT	●		16NL10 ABUT	●	
		22EL8 ABUT	●		22NL8 ABUT	●	
		22EL6 ABUT	●		22NL6 ABUT	●	



## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
	SAGE-External Threading	16ER2.0 SAGE	●	SAGE-Internal Threading	16NR2.0 SAGE	●	
		22ER2.0 SAGE	●		22NR3.0 SAGE	●	
		22ER3.0 SAGE	●		27NR4.0 SAGE	●	
		27ER4.0 SAGE	●		16NL2.0 SAGE	●	
		16EL2.0 SAGE	●		22NL3.0 SAGE	●	
		22EL2.0 SAGE	●		27NL4.0 SAGE	●	
		22EL3.0 SAGE	●				
		27EL4.0 SAGE	●				
	Round-DIN405-ExternalThreading	16ER10 RD	●	Round-DIN405-InternalThreading	16NL10 RD	●	
		16ER8 RD	●		16NL8 RD	●	
		16ER6 RD	●		16NL6 RD	●	
		22ER6 RD	●		22NL6 RD	●	
		22ER4 RD	●		22NL4 RD	●	
		27ER4 RD	●		27NL4 RD	●	
		16ER10 RD	●		16EL10 RD	●	
		16ER8 RD	●		16EL8 RD	●	
		16ER6 RD	●		16EL6 RD	●	
		22ER6 RD	●		22EL6 RD	●	
		22ER4 RD	●		22EL4 RD	●	
		27ER4 RD	●		27EL4 RD	●	
	Round-20400-ExternalThreading	22ER3.00 RD	●	Round-20400-InternalThreading	22NR3.0 RD	●	
		22ER4.00 RD	●		22NR4.0 RD	●	
		22ER5.00 RD	●		22NR5.0 RD	●	
		22ER6.00 RD	●		22NR6.0 RD	●	
		22EL3.0 RD	●		22NL3.0 RD	●	
		22EL4.0 RD	●		22NL4.0 RD	●	
		22EL5.0 RD	●		22NL5.0 RD	●	
		22EL6.0 RD	●		22NL6.0 RD	●	

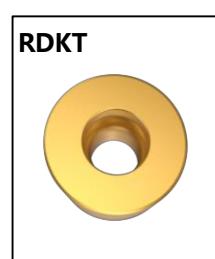
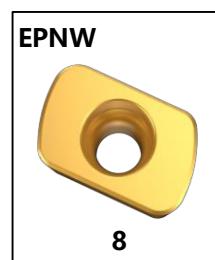
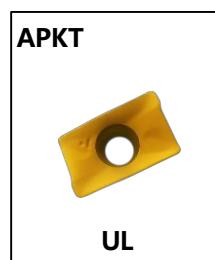
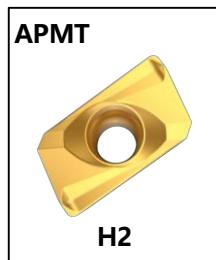
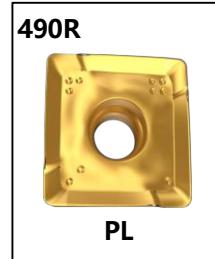
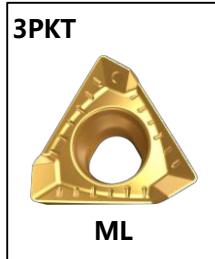


## THREAD TURNING INSERTS

			Grade				Grade
Appearance	Thread Standard	Designation	PC	Thread Standard	Designation	PC	
A series of 12 external thread turning inserts, each with a different profile and color.	API -External Threading	22ER 4API 382	●	API -Internal Threading	22NR 4API 382	●	
		22ER 4API 383	●		22NR 4API 383	●	
		22ER 4API 502	●		22NR 4API 502	●	
		22ER 4API 503	●		22NR 4API 503	●	
		22ER 5API 403	●		22NR 5API 403	●	
		22ER 6API 551	●		22NR 6API 551	●	
		27ER 4API 382	●		27NR 4API 382	●	
		27ER 4API 383	●		27NR 4API 383	●	
		27ER 4API 502	●		27NR 4API 502	●	
		27ER 4API 503	●		27NR 4API 503	●	
		27ER 5API 403	●		27NR 5API 403	●	
A series of 4 RD external thread turning inserts.	API RD - External Threading	16ER10 APIRD	●	API RD - Internal Threading	16NR10 APIRD	●	
		16ER08 APIRD	●		16NR08 APIRD	●	
A series of 5 BUT external thread turning inserts.	BUT-External Threading	22ER5 BUT	●	BUT-Internal Threading	22NR5 BUT	●	
A series of 4 Partial Profile 60-V style inserts.	Partial Profile 60-V Style Inserts		MTTR/L 436001			●	
			MTTR/L 436002			●	
			MTTR/L 436003			●	
			MTTR/L 436004			●	
A series of 4 Partial Profile 55-V style inserts.	Partial Profile 55-V Style Inserts		MTTR/L 435501			●	
			MTTR/L 435502			●	
			MTTR/L 435503			●	
			MTTR/L 435504			●	

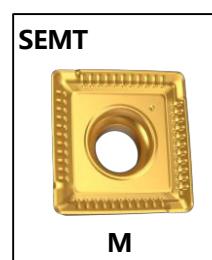
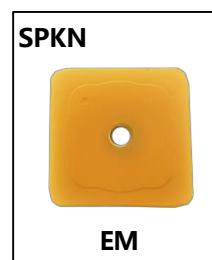
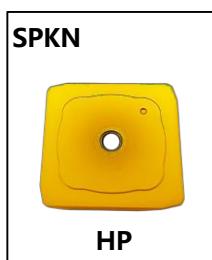
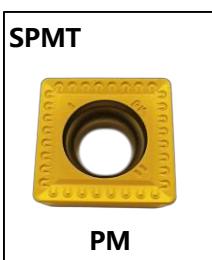
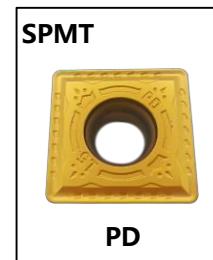
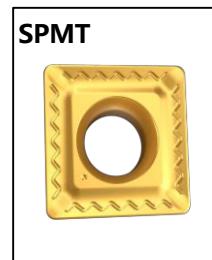
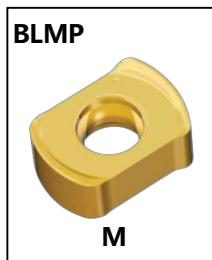
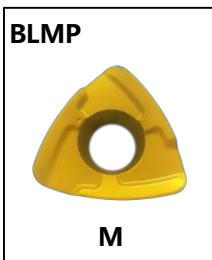


## MILLING INSERTS



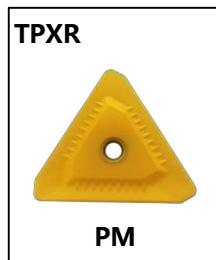
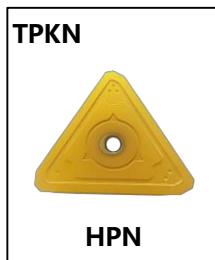
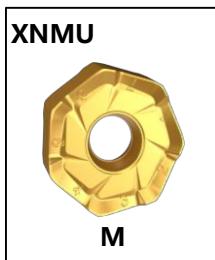


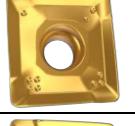
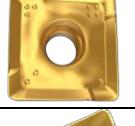
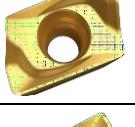
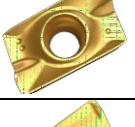
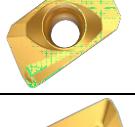
## MILLING INSERTS





## MILLING INSERTS



Appearance	Designation	Grade													
		P					K			M/S		N			
		PC8310	PC8320	PC8325	PC8410	PC8420	PC8615	PC8625E	PC7310	PC7410	PC7415	PC7615	PC9330	PC9430	PC9530
	3PKT100404R-M	●	●						○	●		○		●	
	3PKT100408R-M	●	●		●	●			○	●		○		●	
	3PKT150508R-M	●	●		●	●			○	●		○		●	
	3PKT190608R-M	●	●		●	●			○	●		○		●	
	3PKT100404R-ML	●	●		●	●			○	●		○		●	
	3PKT100408R-ML	●	●		●	●			○	●		○		●	
	3PKT150508R-ML	●	●		●	●			○	●		○		●	
	3PHT150508R-AL													●	
	490R-140408M-MM	●	●		●	●			○	●		○		●	
	490R-140408M-PL	●	●		●	●			○	●		○		●	
	AXMT060204R-EM	●	●		●	●			○	●		○		●	
	AXMT060208R-EM	●	●		●	●			○	●		○		●	
	APMT1135PDER	●	●		●	●			○	●		○		●	
	APMT1604PDER	●	●		●	●			○	●		○		●	
	APMT1135PDER-H2	●	●		●	●			○	●		○		●	
	APMT1604PDER-H2	●	●		●	●			○	●		○		●	
	APMT1135PDER-M2	●	●		●	●			○	●		○		●	
	APMT1604PDER-M2	●	●		●	●			○	●		○		●	

● Main Grade |

○ Optional Grades |



## MILLING INSERTS

Appearance	Designation	Grade									
		P	K	M/S		N					
	APKT1003PDTR	● ● ● ●	○ ●	○	●						
	APKT160408-HM	● ● ● ●	○ ●							○	●
	APKT09T3PER-EM	● ● ● ●	○ ●							○	●
	APKT1204PER-EM	● ● ● ●	○ ●							○	●
	APKT1705PER-EM	● ● ● ●	○ ●							○	●
	APKT170508-EM	● ● ● ●	○ ●							○	●
	APKT1705PER-M	● ● ● ●	○ ●							○	●
	APKT1003PDER-UL	● ● ● ●	○ ●							○	●
	EPNW0603TN-8	● ● ● ●	○ ●							○	●
	HNMX1006ANTN-M	● ● ● ●	○ ●							○	●
	HNMX050410-MM	● ● ● ●	○ ●							○	●
	LNMU0303ZER-MJ	● ● ● ●	○ ●							○	●

● Main Grade |

○ Optional Grades |



## MILLING INSERTS

Appearance	Designation	Grade									
		P	K	M/S		N					
	LOGU030310ER-GM	● ● ● ●	○ ●	○		●					
	MF80-130508M-M50	● ● ● ●	○ ●	○		●					
	OFMT05T3TN-ML	● ● ● ●	○ ●	○		●					
	RPMT0802M-C	● ● ● ●	○ ●	○		●					
	RPMT10T3MO	● ● ● ●	○ ●	○		●					
	RPMW1003MO	● ● ● ●	○ ●	○		●					
	RPMW10T3MO	● ● ● ●	○ ●	○		●					
	RPMT1204M-C	● ● ● ●	○ ●	○		●					
	RDMX0501-M	● ● ● ●	○ ●	○		●					
	RDMX0702-M	● ● ● ●	○ ●	○		●					
	RDMX1003-M	● ● ● ●	○ ●	○		●					
	RDMX12T3-M	● ● ● ●	○ ●	○		●					
	RDMW1204-PM	● ● ● ●	○ ●	○		●					
	RDKT1605MO	● ● ● ●	○ ●	○		●					
	RXMX1003-M	● ● ● ●	○ ●	○		●					
	RDKW1605MO	● ● ● ●	○ ●	○		●					

● Main Grade |

○ Optional Grades |

Appearance	Designation	Grade											
		P				K				M/S		N	
	R390-11T308M-PM	●	●	●	●	○	●	○	●	○	●		
	R390-170408M-PM	●	●	●	●	○	●	○	●	○	●		
	RBEX40-M	●	●	●	●	○	●	○	●	○	●		
	RBEX50-M	●	●	●	●	○	●	○	●	○	●		
	BLMP0603R-M	●	●	●	●	○	●	○	●	○	●		
	BLMP1306R-M	●	●	●	●	○	●	○	●	○	●		
	SPMT110408-EM	●	●	●	●	○	●	○	●	○	●		
	SPMT120408RBE	●	●	●	●	○	●	○	●	○	●		
	SPMT040204-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT050204-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT060205-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT07T208-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT090308-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT11T308-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT130410-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT15M510-PD	●	●	●	●	○	●	○	●	○	●		
	SPMT180510-PD	●	●	●	●	○	●	○	●	○	●		

● Main Grade |

○ Optional Grades |



## MILLING INSERTS

Appearance	Designation	Grade									
		P	K	M/S		N					
	SPMT120408-PM	● ● ● ●	○ ●	○	●						
	SPKN1504EDTR-HP	● ● ● ●	○ ●	○	●						
	SPKN1504EDR-HPN	● ● ● ●	○ ●	○	●						
	SPKN1504EDSR-EM	● ● ● ●	○ ●	○	●						
	SDMT120512-PM	● ● ● ●	○ ●	○	●						
	SDMT150512-PM	● ● ● ●	○ ●	○	●						
	SEKT1204AFTN	● ● ● ●	○ ●	○	●						
	SEKT12T3AFTN-M	● ● ● ●	○ ●	○	●						
	SEKT12T3AFTN-WC	● ● ● ●	○ ●	○	●						
	SEMT1304PETR-M	● ● ● ●	○ ●	○	●						

● Main Grade |

○ Optional Grades |

Appearance	Designation	Grade											
		P				K				M/S		N	
	SNMX120512-F57	●	●	●	●	○	●	○	●	○	●		
	SNMX1205ANN-F57	●	●	●	●	○	●	○	●	○	●		
	SNMX1205ZNN-F27	●	●	●	●	○	●	○	●	○	●		
	SNMX1205ZNN-F57	●	●	●	●	○	●	○	●	○	●		
	SNMX1205ZNN-F67	●	●	●	●	○	●	○	●	○	●		
	SNMX1306ZN-ML	●	●	●	●	○	●	○	●	○	●		
	SNMX1306ANTN-M	●	●	●	●	○	●	○	●	○	●		
	SNMU130508EN-GM	●	●	●	●	○	●	○	●	○	●		
	SNMU120612-GM	●	●	●	●	○	●	○	●	○	●		
	SNKX1206XTN	●	●	●	●	○	●	○	●	○	●		
	WNMU080604EN-GM	●	●	●	●	○	●	○	●	○	●		
	WNMU080608EN-GM	●	●	●	●	○	●	○	●	○	●		
	WNMX080608-ML	●	●	●	●	○	●	○	●	○	●		

● Main Grade |

○ Optional Grades |



## MILLING INSERTS

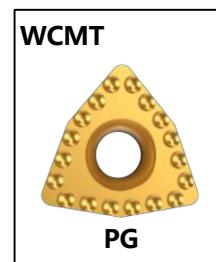
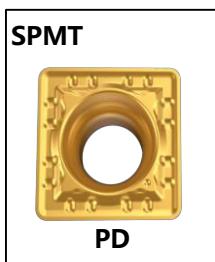
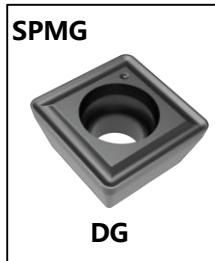
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		P					K			M/S	
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	XNNU0906ANTR-M	●	●	●	●		○	●		○	●
	TPKN2204PDR-HPN	●	●	●	●		○	●		○	●
	TPXR2204PDSR-PM	●	●	●	●		○	●		○	●
	PNMU0905XNER-GM	●	●	●	●		○	●		○	●

● Main Grade |

○ Optional Grades |



## DRILLING INSERTS





## DRILLING INSERTS

Appearance	Designation	Grade									
		P	K	M/S	N						
	SOMT040204-DP	○ PC8310									
	SOMT050204-DP	○ ● PC8320									
	SOMT060204-DP	○ ● PC8325									
	SOMT070306-DP	○ ● PC8410									
	SOMT08T306-DP	○ ● PC8420									
	SOMT09T308-DP	○ ● PC8615									
	SOMT11T308-DP	○ ● PC8625									
	SOMT130408-DP	○ ● PC8625E									
	SOMT150510-DP	○ ● PC7310									
	SPMG04T102-DG	○ ● PC7410									
	SPMG050204-DG	○ ● PC7415									
	SPMG060204-DG	○ ● PC7415E									
	SPMG07T308-DG	○ ● PC7615									
	SPMG090408-DG	○ ● PC9330									
	SPMG110408-DG	○ ● PC9430									
	SPMG140512-DG	○ ● PC9530									
	SPMG050204-PMA	○ ● PC7310									
	SPMG060204-PMA	○ ● PC7410									
	SPMG07T308-PMA	○ ● PC7415									
	SPMG090408-PMA	○ ● PC7615									
	SPMG110408-PMA	○ ● PC9330									
	SPMG140512-PMA	○ ● PC9430									
	SPGG050204-AL										●
	SPGG060204-AL										●
	SPGG07T308-AL										●
	SPGG090408-AL										●
	SPGG110408-AL										●
	SPGG140512-AL										●

● Main Grade |

○ Optional Grades |



## DRILLING INSERTS

Appearance	Designation	Grade									
		P	K	M/S	N						
	XOMT040204-PD	○	PC8310	●							
	XOMT050204-PD	○	PC8320								
	XOMT060204-PD	○	PC8325								
	XOMT07T205-PD	○	PC8410	●							
	XOMT090305-PD	○	PC8420								
	XOMT11T306-PD	○	PC8615								
	XOMT130406-PD	○	PC8625								
	XOMT15M508-PD	○	PC8625E								
	XOMT180508-PD	○	PC7310	●							
	SPMT040204-PD	○	PC7410								
	SPMT050204-PD	○	PC7415								
	SPMT060205-PD	○	PC7415E								
	SPMT07T208-PD	○	PC7615	●							
	SPMT090308-PD	○	PC9330								
	SPMT11T308-PD	○	PC9430								
	SPMT130410-PD	○	PC9530	●							
	SPMT15M510-PD	○	PC101								
	XCMT040104R	○	○	●							
	XCMT040104L	○	○	●							
	XCMT050204	○	○	●							
	XCMT060204	○	○	●							
	XCMT070304	○	○	●							
	XCMT080304	○	○	●							
	XCMT10T304	○	○	●							
	XCMT10T308	○	○	●							
	XCMT130404	○	○	●							
	XCMT130408	○	○	●							
	XCMT170508	○	○	●							

● Main Grade |

○ Optional Grades |

Appearance	Designation	Grade									
		P					K			M/S	
	WCMX030204	○	PC8310	●						●	●
	WCMX030208	○	PC8320	●						●	●
	WCMX040204	○	PC8325	●						●	●
	WCMX040208	○	PC8410	●						●	●
	WCMX050308	○	PC8420	●						●	●
	WCMX06T308	○	PC8615							●	●
	WCMX080412	○	PC8625							●	●
	WCMX030208-FN	○	PC8625E	●						●	●
	WCMX040208-FN	○	PC86410	●						●	●
	WCMT030208-PG	○	PC7310	●						●	●
	WCMT040208-PG	○	PC7415	●						●	●
	WCMT050308-PG	○	PC7415E	●						●	●
	WCMT06T308-PG	○	PC7615	●						●	●
	WCMT080412-PG	○	PC9330	●						●	●
	WCMT050308-FN	○	PC9430	●						●	●
	WCMT06T308-FN	○	PC9530	●						●	●
	WCMT080412-FN	○	PC101								
	WCMT030208-ZK	○									
	WCMT040208-ZK	○									
	WCMT050308-ZK	○									
	WCMT06T308-ZK	○									
	WCMT080412-ZK	○									

● Main Grade |

○ Optional Grade

**PRECiCUT**

# PRECISION CUTTING TOOLS

DISTRIBUITO DA:

QUESTO CATALOGO È COPERTO DAI DIRITTI D'AUTORE.  
È VIETATA LA DIVULGAZIONE, LA RIPRODUZIONE E L'UTILIZZO ANCHE SOLO PARZIALE  
DELLE GRAFICHE IN ESSO INCLUSE.  
PROPRIETÀ ESCLUSIVA MARCHIATA PRECICUT