

Milling Inserts

Classification of usage	P	Carbon Steel / Alloy Steel	★	☆														
	M	Mold Steel	★	☆														
★ : Roughing / 1st Choice	M <td>Stainless Steel</td> <td></td> <td>★</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☆</td>	Stainless Steel		★														☆
☆ : Roughing / 2nd Choice	K <td>Gray Cast Iron</td> <td></td> <td></td> <td>★</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☆</td>	Gray Cast Iron			★													☆
■ : Finishing / 1st Choice	K <td>Nodular Cast Iron</td> <td></td> <td></td> <td>★</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>★</td>	Nodular Cast Iron			★													★
□ : Finishing / 2nd Choice	N <td>Non-ferrous Metals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>★</td>	Non-ferrous Metals																★
(In case hardness is under 45HRC)	S <td>Heat-resistant Alloys</td> <td></td> <td></td> <td>★</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☆</td>	Heat-resistant Alloys			★													☆
	S <td>Titanium Alloys</td> <td></td> <td></td> <td>★</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☆</td>	Titanium Alloys			★													☆
	H <td>Hard Materials</td> <td></td> <td></td> <td>□</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Hard Materials			□													

Insert Handed Insert shows R-hand	Description	Dimension (mm)				Angle (°)			Cermet		MEGACOAT		PVD Coated Carbide				Carbide	Ref. Page for Toolholder													
		A	T	X	Z	re	α	β	γ	TN60	TN100M	TC60	PR1225	PR1210	PR630	PR730	PR830		PR1025	PR660	PR905	PW30	KW10								
	SPCN 1203EDTR	12.70	3.18	R1.0	2.0	-	11°	15°	15°	●	□	●	●	●	●	●	●	●	●	●	●	●	M43								
	SPKN 1203EDTR			R1.0						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	
	1203EDTL			R1.0						□	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-
	1203EDFR			1.6						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	M43
	1203EDFL			1.0						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-
	SPKN 1504EDTR			15.875						4.76	1.0	2.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-
1504EDFR	15.875	4.76	1.0	2.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-								
	SPEN 1203EESR	12.70	3.18	1.0	1.4	-	11°	20°	15°	●	□	●	●	●	●	●	●	●	●	●	●	●	-								
	SPCN 1203XPTR	12.70	3.18	R1.0	2.0	-	11°	11°	25°	●	□	●	●	●	●	●	●	●	●	●	●	●	-								
	SPKN 1203XPTR			R1.0						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-		
	1203XPTL			R1.0						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	
	1203XPFR			1.0						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	
	SPKN 1504XETR			15.875						4.76	1.0	2.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-
	SPCN 1904EETR1	19.05	4.76	0.7	1.2	-	11°	20°	15°	●	□	●	●	●	●	●	●	●	●	●	●	●	-								
	SPKR 1203EDER-S	12.70	3.18	R1.0	2.0	-	11°	15°	15°	●	□	●	●	●	●	●	●	●	●	●	●	●	M43								
	SPMR 1203EDER-H	12.70	3.18	R1.0	2.0	-	11°	15°	15°	●	□	●	●	●	●	●	●	●	●	●	●	●	M43								
	SPMN 120308	12.70	3.18	-	-	0.8	11°	-	-	□	●	□	●	●	●	●	●	●	●	●	●	●	-								
	SPMN 120312			-	-	1.2				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-				
	SPMN 120408			4.76	-	-				0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-			
	SPMN 120412			4.76	-	-				1.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-			
	SPGN 090304			9.525	-	-				0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-		
	SPGN 090308			9.525	3.18	-				-	0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-		
	SPGN 120304			12.70	3.18	-				-	0.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-		
SPGN 120308	12.70	3.18	-	-	0.8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-								
SPUN 090308	9.525	3.18	-	-	0.8	11°	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-								
SPUN 120308	12.70	3.18	-	-	0.8	11°	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-								
	SNCN 1204XNTN	12.70	4.76	2.0	2.0	-	-	-	25°	●	□	●	●	●	●	●	●	●	●	●	●	●	-								
	SNKN 1204XNTN			2.0	2.0	●	□	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-						
	SNMF 1204XNTN	12.70	4.76	2.0	2.0	-	-	-	25°	●	□	●	●	●	●	●	●	●	●	●	●	●	-								
	SNMN 120408	12.70	4.76	-	-	0.8	-	-	-	●	□	●	●	●	●	●	●	●	●	●	●	●	-								
	120412			-	-	1.2	●	□	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-						

● : Std. Item
□ : Check Availability

Inserts are sold in 10 piece boxes.

