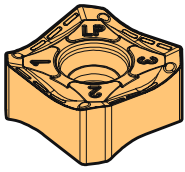
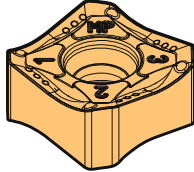


SNHX 1206 Inserts | Pastilhas | Plaquetas

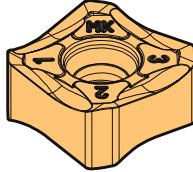
SNHX - LP



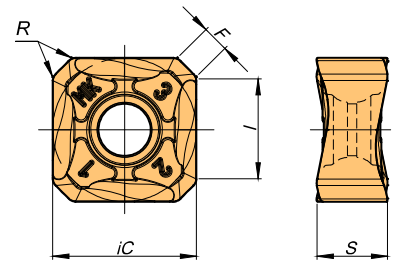
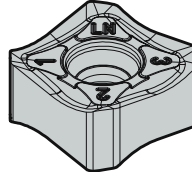
SNHX - MP



SNHX - MK

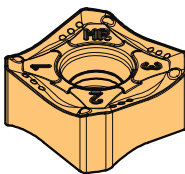


SNHX - LN



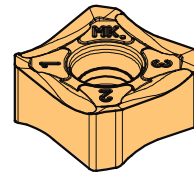
New

SNKX - MP

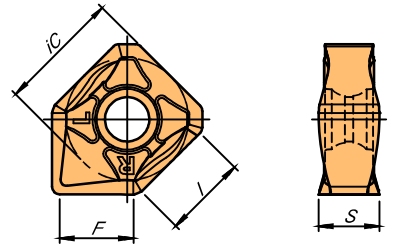
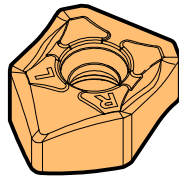


New

SNKX - MK



SNHX - Wiper



(1) Geometry Code	(2) Grade Code	Grades																		Dimensions (mm)									
		P						M			K						N		S										
		G1	54	G4	68	P3	66	G6	I5	P3	66	I5	L5	G1	G4	68	P3	66	D2	L9	I0	D6	P3	G6	I5	iC	S	I	R
New 1112293	SNKX 1206 ANSN-MP																								12,70	4,76	9,3	0,8	2,0
New 1112249	SNKX 1206 ANEN-MK																								12,70	4,76	9,3	0,8	2,0
1111452	SNHX 1206 ANEN-LP																								12,70	6,35	9,3	0,8	2,0
1111502	SNHX 1206 ANSN-MP																								12,70	6,35	9,3	0,8	2,0
1111503	SNHX 1206 ANEN-MK																								12,70	6,35	9,3	0,8	2,0
1111504	SNHX 1206 ANFN-LN																								12,70	6,35	9,3	0,8	2,0
1111899	SNHX 1206 ANFN-W*																								12,70	6,30	9,3	0,4	7,6

* Wiper inserts with 2 rights and 2 left-hand cutting edges.

⊗ First choice / 1ª escolha / 1ª opción ⊗ Stock items / Itens de stock ○ Available under request / Disponibilidade sob consulta / Disponible bajo consulta

Insert Order Code = (1) Geometry Code + (2) Grade Code

⊕ Inventory maintained. To be replaced by new grades. / Itens em stock. Serão substituídos por novos graus. / Itens en stock. Serán reemplazados por nuevos grados.

Applicable Grades

ISO	Material	HB (Brinell)	Grade	Grades						
				← Wear Resistance				Toughness →		
				PH0910	PH5705	PH7(6)910	PH7(6)920	PH7(6)930	PH5740	PH7740
P	Unalloyed steel	125-220			✓	✓	✓		✓	
	Low-alloyed steel	220-280			✓	✓	✓		✓	
	High-alloy steel	280-380			✓	✓	✓		✓	
M	SS - Ferritic/martensitic	200-330						✓		
	SS - Austenitic	200-330						✓		
	SS - Austenitic-ferritic (Duplex)	230-260						✓		
K	Malleable cast iron	130-230		✓					✓	
	Grey cast iron	180-245		✓					✓	
	Nodular cast iron	160-250		✓					✓	
N	Aluminium and Non Ferrous	30-130	✓							
S	Heat Resistant Super Alloys	200-320						✓		

● Good Conditions
 ⊗ Average Conditions
 ⊕ Difficult Conditions

PLUS 90945 Milling Tool | Ferramenta | Herramienta

Rec. Cutting Conditions

ISO	PSM	Material	HB (Brinell) Grade	V _c (m/min)					
				← Wear Resistance					
				PH0910	PH5705	PH7910	PH6910	PH7920	PH6920
P	1	Unalloyed steel	125-220	-	-	190-280	180-250	180-250	150-230
	2	Low-alloyed steel	220-280	-	-	180-240	170-210	170-210	140-220
	3	High-alloy steel	280-380	-	-	170-220	160-200	160-200	130-180
M	4	SS - Ferritic/martensitic	200-330	-	-	-	-	-	-
	5	SS - Austenitic	200-330	-	-	-	-	-	-
	6	SS - Austenitic-ferretic (Duplex)	230-260	-	-	-	-	-	-
K	7	Malleable cast iron	130-230	-	190-340	180-320	170-300	170-300	150-280
	8	Grey cast iron	180-245	-	180-300	170-280	150-250	150-250	130-230
	9	Nodular cast iron	160-250	-	140-250	100-240	90-210	90-210	80-190
N	10	Aluminium and Non Ferrous	30-130	350-1200	-	-	-	-	-
S	11	Heat Resistant Super Alloys	200-320	-	-	-	-	-	-

(Note 1) Cutting conditions $a_e/D_c=70\%$.

(Note 2) It's possible to occur vibrations in certain cases. Please reduce depth of cut and / or reduce cutting conditions in following cases:

- When using long shank;
- When using long tool overhang with arbor type;
- When application has poor clamping rigidity or when using a low rigidity machine.

(Note 3) PH5... can be used wet or dry. PH7... use only air.

Chip-Breaker Application

ISO	PSM	Material	HB (Brinell)	Chip Breaker Application	
				1st choice	Difficult Operations
P	1	Unalloyed steel	125-220	SNHX 12... LP	SNH(K)X 12... MP
	2	Low-alloyed steel	220-280	SNHX 12... LP	SNH(K)X 12... MP
	3	High-alloy steel	280-380	SNH(K)X 12... MP	-
M	4	SS - Ferritic/martensitic	200-330	SNHX 12... LP	-
	5	SS - Austenitic	200-330	SNHX 12... LP	-
	6	SS - Austenitic-ferretic (Duplex)	230-260	SNHX 12... LP	-
K	7	Malleable cast iron	130-230	SNH(K)X 12... MK	-
	8	Grey cast iron	180-245	SNH(K)X 12... MK	-
	9	Nodular cast iron	160-250	SNH(K)X 12... MK	-
N	10	Aluminium and Non Ferrous	30-130	SNHX 12... LN	-
S	11	Heat Resistant Super Alloys	200-320	SNHX 12... LP	-

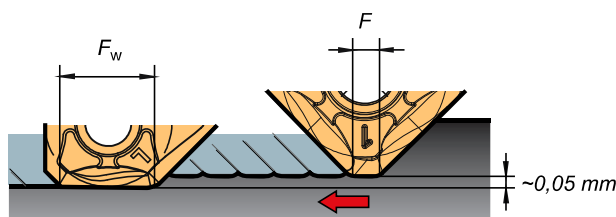
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V _C (m/min)				Feed f _z (mm/t)				
Toughness →								
PH7930	PH6930	PH5740	PH7740	SNHX 12... LP	SNH(K)X 12... MP	SNH(K)X 12... MK	SNHX 12... LN	SNHX 12... W
160-220	150-180	-	140-170	0,10-0,35	0,10-0,35	-	-	0,10-0,35
150-180	140-170	-	130-160	0,10-0,35	0,10-0,35	-	-	0,10-0,35
130-160	120-150	-	110-140	0,10-0,30	0,10-0,30	-	-	0,10-0,30
120-180	90-150	-	-	0,10-0,30	-	-	-	-
100-160	80-130	-	-	0,10-0,30	-	-	-	-
70-140	70-100	-	-	0,10-0,25	-	-	-	-
160-280	80-230	170-300	130-250	0,10-0,35	-	0,10-0,35	-	0,10-0,40
140-240	120-225	150-260	110-220	0,10-0,35	-	0,10-0,35	-	0,10-0,40
90-200	80-180	130-220	80-170	0,10-0,30	-	0,10-0,30	-	0,10-0,40
-	-	-	-	-	-	-	0,10-0,35	-
30-75	25-60	-	-	0,07-0,20	-	-	-	-

Wiper Inserts

Rec. Cutting Conditions

- F_w at least 40% larger than f_n (f_n=f_zxZ);
- Axial depth of cut 0,5 - 0,8 mm.



Example:

- The width of the parallel land (F) of the insert is 2,0mm.
- With a cutter of 10 inserts and using a feed per tooth (f_z) of 0,3mm, the feed per revolution (f_n) will be 3mm, i.e. 33% bigger than the parallel land.
- To obtain a good surface finish, the feed per revolution should be a maximum of 80% of 2mm = 1,6mm.
- The wiper insert will have a parallel land (F_w) with a width of approximately 7,6mm.
- Result: Feed per revolution (f_n) could be increased from 1,6mm to 60% of 7,6mm = 4,56mm.

Note: Other limitations, such as machine power, must be taken into consideration.

How to use a wiper insert

- Since wiper is one corner use for standard cutters, please attach the insert with the parallel land down to the workpiece cutting surface.

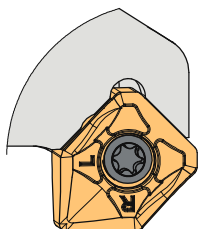


Fig. A

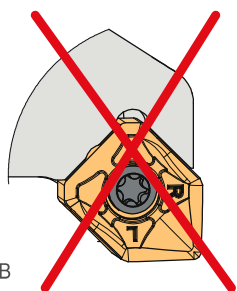
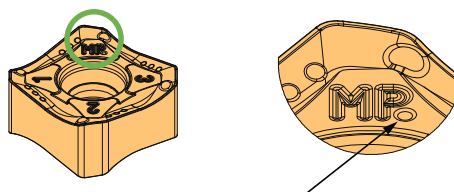
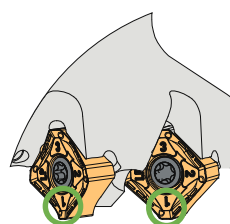


Fig. B



This point shows the SNKX insert difference to SNHX.

When using wiper insert, install the insert as shown on Fig. A. If the insert is installed as shown on Fig. B breakage of the insert is inevitable and normal surface finish can not be obtained.



Put the same side of insert in each pocket for best radial and axial runout when using SNKX.