

H		M	
O		V	
P		W	
S		L	
T		A	
C		B	
D		K	
E		R	
F		X	Special

1- Insert shape symbol

Symbol	m (mm)	d (mm)	s (mm)	Detailed dimension of M class insert Insert height Tolerances (mm)					
A	±0.005	±0.025	±0.025	Inscribed circle					
F	±0.005	±0.013	±0.025	6.35	±0.08	-	-	-	-
C	±0.013	±0.025	±0.025	9.525	±0.08	±0.08	±0.11	±0.10	±0.13
H	±0.013	±0.013	±0.025	12.70	±0.13	±0.13	±0.13	±0.15	-
E	±0.025	±0.025	±0.025	15.875	±0.15	±0.15	±0.15	±0.18	-
G	±0.025	±0.025	±0.13	19.05	±0.15	±0.15	±0.15	±0.18	-
J	±0.005	±0.05~±0.13	±0.025	25.40	-	±0.18	-	-	-
K*	±0.013	±0.05~±0.13	±0.025	31.75	-	±0.25	-	-	-
L*	±0.025	±0.05~±0.13	±0.025	Inscribed circle Tolerances (mm)					
M*	±0.08~±0.20	±0.05~±0.13	±0.13	Inscribed circle					
N*	±0.08~±0.20	±0.05~±0.13	±0.025	6.35	±0.05	-	-	-	-
U*	±0.13~±0.38	±0.08~±0.25	±0.13	9.525	±0.05	±0.05	±0.05	±0.05	±0.05
*As a rule, the sides of these inserts are as sintered. Tolerance differs with insert size, for the accuracy of class M, refer to the table on the right.				12.70	±0.08	±0.08	±0.08	±0.08	±0.08
				15.875	±0.10	±0.10	±0.10	±0.10	±0.10
				19.05	-	-	-	-	±0.10
				25.40	-	±0.13	-	-	±0.10
				31.75	-	±0.20	-	-	±0.12
				3 - Tolerances symbol					

A	B	C	D	E
F	G	N	P	O
				Other clearance angle

2 - Normal clearance symbol

ISO	S	N	M	A
ANSI	S	N	M	A

4 - Insert symbol														
symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape	symbol	Type	Hole type	Chip breaker	Shape
W	with hole	Round hole / one countersink (40°~60°)	Without chip breaker		H	with hole	Round hole / one countersink (70°~90°)	Chip breaker on one side		G	with hole	Round hole	Chip breaker on both sides	
T			Chip breaker on one side		C		Round hole / double countersink (70°~90°)	Without chip breaker		N	without hole	-	Without chip breaker	
Q		Round hole / double countersink (40°~60°)	Without chip breaker		J			Chip breaker on both sides		R		-	Chip breaker on one side	
U			Chip breaker on both sides		A		Round hole	Without chip breaker		F		-	Chip breaker on both sides	
B		Round hole / one countersink (70°~90°)	Without chip breaker		M			Chip breaker on one side		X	-	-	-	On request

SCARFING INSERTS ISO IDENTIFICATION SYSTEM

Sistema de identificação ISO para pastilhas de Scarfing | Codificación ISO para plaquitas de Scarfing

R's	35° V's	55° D's	80° C's	90° S's	60° T's	80° W's	IC		ANSI
							mm	inch	Symbol
-	06	04	-	03	06	02	3,97	5/32	1,20
-	08	05	04	04	08	L3	4,76	3/16	1,50
-	09	06	05	05	09	03	5,56	7/32	1,80
06**	-	-	-	-	-	-	6,00	0,236	
06*	11	07	06	06	11	04	6,35	1/4	2,00
07*	13	09	08	07	13	05	7,94	5/16	2,50
08*	-	-	-	-	-	-	8,00	0,315	
09*	16	11	09	09	16	06	9,525	3/8	3,00
10**	-	-	-	-	-	-	10,00	0,394	
12**	-	-	-	-	-	-	12,00	0,472	
12*	22	15	12	12	22	08	12,70	1/2	4,00
15*	27	19	16	15	27	10	15,875	5/8	5,00
16**	-	-	-	-	-	-	16,00	0,63	
19*	33	23	19	19	33	13	19,05	3/4	6,00
20**	-	-	-	-	-	-	20,00	0,787	
25**	-	-	-	-	-	-	25,00	0,984	
25*	44	31	25	25	44	17	25,40	1,00	8,00
31*	54	38	32	31	54	21	31,75	1 1/4	10,00
32**	-	-	-	-	-	-	32,00	1,26	

* ANSI designation only
(Radius Designation is R0)

** Metric designation only
(Radius Designation is M0)

According to International Standard ISO 1832 - 2012(E)

"Indexable inserts for cutting tools - Designation"

ISO	mm	ANSI	inch
01	1.59	1	0.062
T1	1.98	1.2	0.078
02	2.38	1.5	0.094
03	3.18	2	0.125
T3	3.97	2.5	0.156
04	4.76	3	0.188
05	5.56	3.5	0.219
06	6.35	4	0.250
07	7.94	5	0.312
09	9.52	6	0.375
12	12.70	8	0.500

5 - Insert size symbol

6 - Insert thickness symbol

15 06 12 AN E N - R025
5 4 3 E N - R025

7 - Insert corner symbol			
ISO	mm	inch	ANSI
00	Sharp nose		0
01	0.10	.004	0.2
02	0.20	.008	0.5
04	0.40	.015	1
08	0.80	.032	2
12	1.2	.047	3
16	1.6	.062	4
20	2.0	.078	5
24	2.4	.094	6
28	2.8	.109	7
32	3.2	.125	8
00 (inch or M0/metric)	Round insert		0

7.1* - Insert edges symbol			
For inserts having secondary edges two digits are used:			
1 st digit is secondary edge		2 nd digit is secondary edges relief angle	
A	45°	A	3°
D	60°	B	5°
E	75°	C	7°
F	85°	D	15°
P	90°	E	20°
Z	special	F	25°
*only when required.		G	30°
		N	0°
		P	11°
		Z	special

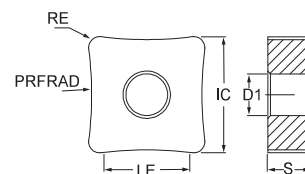
10 - Profiling Radius	
Example: R025	PRFRAD = 25

8* - Cutting edge information		
Shape	Honing	Symbol
	No honing	F
	With honing	E
	Chamfered No honing	T
	Chamfered with honing	S
*only when required.		

9* - Cutting direction		
Shape	Hand	Symbol
	Right	R
	Left	L
	None	N
*only when required.		

SCARFING - SNMA

NEGATIVE INSERTS | PASTILHAS NEGATIVAS | PLAQUITAS NEGATIVAS



				P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD							
		(2) Grade code		L8	L8							
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference	PH5125	PH5125	IC	S	LE	RE	D1	PRFRAD	
SNMA  Roughing	1123927	SNMA 150612-R020	SNMA 543-R020	○	○	15,88	6,35	10	1,2	6,35	20	23-29
	1123928	SNMA 150612-R022	SNMA 543-R022	○	○	15,88	6,35	10	1,2	6,35	22	25-32
	1123929	SNMA 150612-R025	SNMA 543-R025	○	○	15,88	6,35	10	1,2	6,35	25	29-36
	1123930	SNMA 150612-R027	SNMA 543-R027	○	○	15,88	6,35	10	1,2	6,35	27	31-39
	1123931	SNMA 150612-R030	SNMA 543-R030	○	○	15,88	6,35	10	1,2	6,35	30	35-44
	1123932	SNMA 150612-R035	SNMA 543-R035	○	○	15,88	6,35	10	1,2	6,35	35	40-51
	1123933	SNMA 150612-R040	SNMA 543-R040	○	○	15,88	6,35	10	1,2	6,35	40	46-58
	1123934	SNMA 150612-R050	SNMA 543-R050	○	○	15,88	6,35	10	1,2	6,35	50	58-73
	1123935	SNMA 150612-R060	SNMA 543-R060	○	○	15,88	6,35	10	1,2	6,35	60	69-87
	1123936	SNMA 150612-R070	SNMA 543-R070	○	○	15,88	6,35	10	1,2	6,35	70	80-95
	1123937	SNMA 190612-R030	SNMA 643-R030	○	○	19,05	6,35	12	1,2	7,94	30	35-44
	1123938	SNMA 190612-R040	SNMA 643-R040	○	○	19,05	6,35	12	1,2	7,94	40	46-58
	1123939	SNMA 190612-R050	SNMA 643-R050	○	○	19,05	6,35	12	1,2	7,94	50	58-73
	1123940	SNMA 190612-R060	SNMA 643-R060	○	○	19,05	6,35	12	1,2	7,94	60	69-87
	1123941	SNMA 190612-R070	SNMA 643-R070	○	○	19,05	6,35	12	1,2	7,94	70	80-95
	1123942	SNMA 190612-R080	SNMA 643-R080	○	○	19,05	6,35	12	1,2	7,94	80	92-116
	1123943	SNMA 190612-R090	SNMA 643-R090	○	○	19,05	6,35	12	1,2	7,94	90	104-131
	1123944	SNMA 250924-R000	SNMA 866-R000	○	○	25,40	9,52	17	2,4	9,12	0	-
	1123945	SNMA 250924-R060	SNMA 866-R060	○	○	25,40	9,52	17	2,4	9,12	60	69-87
	1123946	SNMA 250924-R070	SNMA 866-R070	○	○	25,40	9,52	17	2,4	9,12	70	80-95
	1123947	SNMA 250924-R080	SNMA 866-R080	○	○	25,40	9,52	17	2,4	9,12	80	92-116
	1123948	SNMA 250924-R100	SNMA 866-R100	○	○	25,40	9,52	17	2,4	9,12	100	115-145
	1123949	SNMA 250924-R150	SNMA 866-R150	○	○	25,40	9,52	17	2,4	9,12	150	165-215
	1123950	SNMA 250924-R200	SNMA 866-R200	○	○	25,40	9,52	17	2,4	9,12	200	230-290

First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

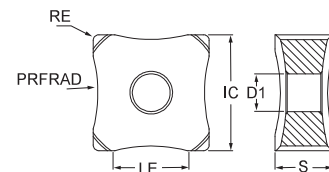
Insert Order Code: ⁽¹⁾ Geometry code + ⁽²⁾ Grade code

Stock Items | Itens de stock

△ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

SCARFING - SNMX

NEGATIVE INSERTS | PASTILHAS NEGATIVAS | PLAQUITAS NEGATIVAS



				P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD							
		(2) Grade code		L8	L8							
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference	PH5125	PH5125	IC	S	LE	RE	D1	PRFRAD	
SNMX  Medium to Finishing	1123879	SNMX 150708-R000	SNMX 552-R000	○	○	15,88	7,94	10	0,8	5,16	0	-
	1123880	SNMX 150708-R007	SNMX 552-R007	○	○	15,88	7,94	10	0,8	5,16	7	08-10
	1123881	SNMX 150708-R009	SNMX 552-R009	○	○	15,88	7,94	10	0,8	5,16	9	10-13
	1123882	SNMX 150708-R011	SNMX 552-R011	○	○	15,88	7,94	10	0,8	5,16	11	13-16
	1123883	SNMX 150708-R013	SNMX 552-R013	○	○	15,88	7,94	10	0,8	5,16	13	15-19
	1123884	SNMX 150708-R015	SNMX 552-R015	○	○	15,88	7,94	10	0,8	5,16	15	17-22
	1123885	SNMX 150708-R018	SNMX 552-R018	○	○	15,88	7,94	10	0,8	5,16	18	21-26
	1123886	SNMX 150708-R020	SNMX 552-R020	⊗	⊗	15,88	7,94	10	0,8	5,16	20	23-29
	1123887	SNMX 150708-R022	SNMX 552-R022	○	○	15,88	7,94	10	0,8	5,16	22	25-32
	1123888	SNMX 150708-R025	SNMX 552-R025	○	○	15,88	7,94	10	0,8	5,16	25	29-36
	1123889	SNMX 150708-R027	SNMX 552-R027	○	○	15,88	7,94	10	0,8	5,16	27	31-39
	1123890	SNMX 150708-R030	SNMX 552-R030	○	○	15,88	7,94	10	0,8	5,16	30	35-44
	1123891	SNMX 150708-R035	SNMX 552-R035	○	○	15,88	7,94	10	0,8	5,16	35	40-51
	1123892	SNMX 150708-R040	SNMX 552-R040	○	○	15,88	7,94	10	0,8	5,16	40	46-58
	1123893	SNMX 150708-R045	SNMX 552-R045	○	○	15,88	7,94	10	0,8	5,16	45	52-65
	1123894	SNMX 150708-R050	SNMX 552-R050	○	○	15,88	7,94	10	0,8	5,16	50	58-73
	1123895	SNMX 150708-R060	SNMX 552-R060	○	○	15,88	7,94	10	0,8	5,16	60	69-87
	1124461	SNMX 150708-R070	SNMX 552-R070	○	○	15,88	7,94	10	0,8	5,16	70	80-95
	1124462	SNMX 150708-R075	SNMX 552-R075	○	○	15,88	7,94	10	0,8	5,16	75	86-102
	1123896	SNMX 190912-R000	SNMX 663-R000	○	○	19,05	9,12	12	1,2	6,35	0	-
	1122012	SNMX 190912-R020	SNMX 663-R020	⊗	⊗	19,05	9,12	12	1,2	6,35	20	23-29
	1123897	SNMX 190912-R030	SNMX 663-R030	⊗	⊗	19,05	9,12	12	1,2	6,35	30	35-44
	1123898	SNMX 190912-R040	SNMX 663-R040	⊗	⊗	19,05	9,12	12	1,2	6,35	40	46-58
	1123899	SNMX 190912-R050	SNMX 663-R050	⊗	⊗	19,05	9,12	12	1,2	6,35	50	58-73
	1122013	SNMX 190912-R060	SNMX 663-R060	○	○	19,05	9,12	12	1,2	6,35	60	69-87
	1123900	SNMX 190912-R070	SNMX 663-R070	○	○	19,05	9,12	12	1,2	6,35	70	80-95
	1123901	SNMX 190912-R080	SNMX 663-R080	○	○	19,05	9,12	12	1,2	6,35	80	92-116
	1123902	SNMX 190912-R090	SNMX 663-R090	○	○	19,05	9,12	12	1,2	6,35	90	104-131
	1123903	SNMX 190912-R100	SNMX 663-R100	○	○	19,05	9,12	12	1,2	6,35	100	115-145
	1123864	SNMX 251216-R000	SNMX 884-R000	⊗	⊗	25,40	12,70	17	1,6	9,12	0	-
	1123904	SNMX 251216-R050	SNMX 884-R050	⊗	⊗	25,40	12,70	17	1,6	9,12	50	58-73
	1122015	SNMX 251216-R080	SNMX 884-R080	⊗	⊗	25,40	12,70	17	1,6	9,12	80	92-116
	1123905	SNMX 251216-R090	SNMX 884-R090	⊗	⊗	25,40	12,70	17	1,6	9,12	90	104-131
	1123906	SNMX 251216-R100	SNMX 884-R100	⊗	⊗	25,40	12,70	17	1,6	9,12	100	115-145
	1122016	SNMX 251216-R120	SNMX 884-R120	⊗	⊗	25,40	12,70	17	1,6	9,12	120	138-174
	1123907	SNMX 251216-R150	SNMX 884-R150	⊗	⊗	25,40	12,70	17	1,6	9,12	150	165-215
1123908	SNMX 251216-R200	SNMX 884-R200	⊗	⊗	25,40	12,70	17	1,6	9,12	200	230-290	
1123909	SNMX 251216-R250	SNMX 884-R250	⊗	⊗	25,40	12,70	17	1,6	9,12	250	275-315	

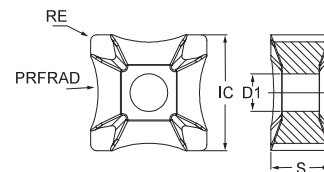
First choice | 1ª Escolha | 1ª Opción

Stock Items | Itens de stock

Available under request | Disponível sob consulta | Disponible bajo consulta

Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

Insert Order Code: (1) Geometry code + (2) Grade code



				P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD							
		(2) Grade code		L8	L8							
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference	PH5125	PH5125	IC	S	A	Re	D1	PRFRAD	
SNMG  Finishing	1123951	SNMG 15M808-R000	SNMG 55.12-R000	○	○	15,88	8,15	10	0,8	5,16	0	-
	1123952	SNMG 15M808-R007	SNMG 55.12-R007	○	○	15,88	8,15	10	0,8	5,16	7	08-10
	1123953	SNMG 15M808-R009	SNMG 55.12-R009	○	○	15,88	8,15	10	0,8	5,16	9	10-13
	1123954	SNMG 15M808-R011	SNMG 55.12-R011	⊗	○	15,88	8,15	10	0,8	5,16	11	13-16
	1123955	SNMG 15M808-R013	SNMG 55.12-R013	⊗	○	15,88	8,15	10	0,8	5,16	13	15-19
	1123956	SNMG 15M808-R015	SNMG 55.12-R015	⊗	○	15,88	8,15	10	0,8	5,16	15	17-22
	1123957	SNMG 15M808-R018	SNMG 55.12-R018	⊗	○	15,88	8,15	10	0,8	5,16	18	21-26
	1123958	SNMG 15M808-R020	SNMG 55.12-R020	⊗	○	15,88	8,15	10	0,8	5,16	20	23-29
	1123959	SNMG 15M808-R022	SNMG 55.12-R022	○	○	15,88	8,15	10	0,8	5,16	22	25-32
	1123960	SNMG 15M808-R025	SNMG 55.12-R025	⊗	○	15,88	8,15	10	0,8	5,16	25	29-36
	1123961	SNMG 15M808-R027	SNMG 55.12-R027	⊗	○	15,88	8,15	10	0,8	5,16	27	31-39
	1123962	SNMG 15M808-R030	SNMG 55.12-R030	⊗	○	15,88	8,15	10	0,8	5,16	30	35-44
	1123963	SNMG 15M808-R035	SNMG 55.12-R035	⊗	○	15,88	8,15	10	0,8	5,16	35	40-51
	1123964	SNMG 15M808-R040	SNMG 55.12-R040	⊗	○	15,88	8,15	10	0,8	5,16	40	46-58
	1123965	SNMG 15M808-R045	SNMG 55.12-R045	⊗	○	15,88	8,15	10	0,8	5,16	45	52-65
	1123966	SNMG 15M808-R050	SNMG 55.12-R050	○	○	15,88	8,15	10	0,8	5,16	50	58-73
	1123967	SNMG 15M808-R060	SNMG 55.12-R060	⊗	○	15,88	8,15	10	0,8	5,16	60	69-87
	1123968	SNMG 19M808-R000	SNMG 65.13-R000	○	○	19,05	8,15	12	0,8	8,00	20	-
	1123969	SNMG 19M808-R010	SNMG 65.13-R010	○	○	19,05	8,15	12	0,8	8,00	10	12-15
	1123970	SNMG 19M808-R020	SNMG 65.13-R020	⊗	○	19,05	8,15	12	0,8	8,00	20	23-29
	1123971	SNMG 19M808-R030	SNMG 65.13-R030	⊗	○	19,05	8,15	12	0,8	8,00	30	35-44
	1123972	SNMG 19M808-R040	SNMG 65.13-R040	○	○	19,05	8,15	12	0,8	8,00	40	46-58
	1123973	SNMG 19M808-R050	SNMG 65.13-R050	○	○	19,05	8,15	12	0,8	8,00	50	58-73
	1123974	SNMG 19M808-R060	SNMG 65.13-R060	○	○	19,05	8,15	12	0,8	8,00	60	69-87
	1123975	SNMG 19M808-R070	SNMG 65.13-R070	○	○	19,05	8,15	12	0,8	8,00	70	80-95
	1123976	SNMG 19M808-R080	SNMG 65.13-R080	○	○	19,05	8,15	12	0,8	8,00	80	92-116
	1123977	SNMG 19M808-R090	SNMG 65.13-R090	○	○	19,05	8,15	12	0,8	8,00	90	104-131
	1123978	SNMG 19M808-R100	SNMG 65.13-R100	○	○	19,05	8,15	12	0,8	8,00	100	115-145

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

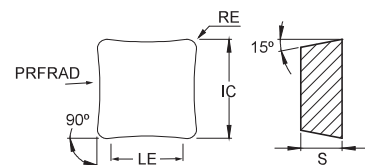
⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock

SCARFING - SDMX

POSITIVE INSERTS | PASTILHAS POSITIVAS | PLAQUITAS POSITIVAS

RELIEF ANGLE 15°



				P	M	Dimensions (mm) Dimensões (mm) Dimensiones (mm)						Tube Diameter (mm)
				CVD	CVD							
		(2) Grade code		L8	L8							
Inserts Pastilhas Plaquetas	(1) Geometry code	ISO Reference	ANSI Reference	PH5125	PH5125	IC	S	LE	RE	D1	PRFRAD	
SDMX  Medium to Finishing	1124752	SDMX 250616-R000	SDMX 250616-R000	○	○	25,40	6,35	20	1,60	-	0	-
	1124822	SDMX 250616-R080	SDMX 250616-R080	⊗	⊗	25,40	6,35	20	1,60	-	80	92-116
	1124753	SDMX 250616-R180	SDMX 250616-R180	○	○	25,40	6,35	20	1,60	-	180	210-270
	1124754	SDMX 250616-R300	SDMX 250616-R300	⊗	⊗	25,40	6,35	20	1,60	-	300	340-410
	1124755	SDMX 250616-R400	SDMX 250616-R400	○	○	25,40	6,35	20	1,60	-	400	440-520
	1124756	SDMX 250616-R550	SDMX 250616-R550	○	○	25,40	6,35	20	1,60	-	550	600-700
	1124757	SDMX 350900-R000	SDMX 350900-R000	○	○	35,00	9,60	30	-	-	0	-
	1124758	SDMX 350900-R105	SDMX 350900-R105	○	○	35,00	9,60	30	-	-	105	115-145
	1124759	SDMX 350900-R145	SDMX 350900-R145	○	○	35,00	9,60	30	-	-	145	160-210
	1124760	SDMX 350900-R300	SDMX 350900-R300	○	○	35,00	9,60	30	-	-	300	340-410
	1124761	SDMX 350900-R400	SDMX 350900-R400	○	○	35,00	9,60	30	-	-	400	440-520
	1124762	SDMX 350900-R550	SDMX 350900-R550	○	○	35,00	9,60	30	-	-	550	600-700

⊗ First choice | 1ª Escolha | 1ª Opción

○ Available under request | Disponível sob consulta | Disponible bajo consulta

Insert Order Code: ⁽¹⁾Geometry code + ⁽²⁾Grade code

⊗ Stock Items | Itens de stock

⊗ Stock available until sold out | Stock disponível até acabar o stock | Stock disponible hasta acabar el stock