



Product overview

Visão geral dos produtos

Visión general de los productos

- Insertos para torneamento
- Plaquitas para torneado
- Turning inserts

Insertos para torneamento Plaquitas para torneado Turning inserts (B8-B36)

Insertos ISO para torneamento Plaquitas ISO para torneado ISO turning inserts

CNMG-DF	CNMG-DM	CNMG-PM	CNMM-DR	CNMG	CNMM	CNMA	DNMG-DF
B8	B8	B9	B9	B10	B10	B11	B11
DNMG-DM	DNMG-PM	DNMM-DR	DNMG	DNGA DNMA	SNMG-DF	SNMG-DM	SNMG-PM
B12	B12	B13	B13	B14	B14	B15	B16
SNMM-DR	SNMG	SNMM	SNUN SNGN	SNMA SNGA	SNMM-31	SNMX-51	TNMG-DF
B16	B17	B17	B18	B19	B19	B20	B20
TNMG-DM	TNMG-PM	TNMM-DR	TNMA TNGA	TNMG	TNMM	TNUN	VNMG-DF
B21	B21	B22	B22	B23	B23	B24	B24
VNMG-DM	VNMG-PM	VNMG	WNMG-DF	WNMG-DM	WNMG-PM	WNMA	RNMG
B25	B25	B26	B26	B27	B27	B28	B28
RNMA RNGA	CCMT-HF	CCMT-HM	CCMT-HR	CCMW CCGW	CPGT	CPGW	DCMT-HF
B29	B29	B30	B30	B31	B31	B32	B32
DCMT-HM	DCMT-HR	DCMW DPMW DCGW	SCMT-HF	SCMT-HM	SCMT-HR	SCMT	SCMW
B33	B33	B34	B34	B35	B35	B36	B36



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Insertos ISO para torneamento Plaquitas ISO para torneado ISO turning inserts

SPMR	SPUN SPGN	SPEB	SPMW	TCMT-HF	TCMT-HM	TCMT-HR	TCMT
B37	B38	B39	B39	B40	B40	B41	B41
TCMW TCGW	TCGH	TPGA	TPGB	TPGN	TPMR	TPGW	TPUN
B42	B42	B43	B43	B44	B45	B45	B46
VBMT-HF	VBMT-HM	VBMT-HR	VBMW VBGW	RCGT RCMT	RCMX	WCMX	
B46	B46	B47	B48	B48	B49	B49	
CCGX	DCGX-LH	TCGX-LH	VCGX-LH	SCGX-LH			
B50	B50	B51	B51	B51			
KNUX							
B52							
175.32-22	175.32-24	175.32-25	175.32-28				
B53	B53	B54	B54				

Insertos para torneamento de alumínio Plaquitas para torneado de alumínio Aluminium turning inserts

Insertos para copiar Plaquitas para copia Profile turning inserts

Insertos para torneamento pesado Plaquitas para torneado pesado Heavy turning inserts

Insertos para torneamento de rodesos Plaquitas para torneado de ruedas Railway wheel re-turning inserts



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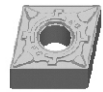
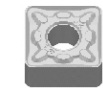
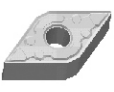
Insertos para torneamento Plaquitas para torneado Turning inserts (B55-B69)

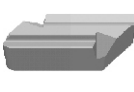
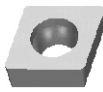
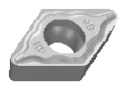
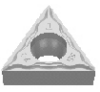
Insertos para torneamento pesado Plaquitas para torneado pesado Heavy turning inserts

Insertos para descascamento de Barras Plaquitas Insertos para Pelado de Barras Peeling inserts

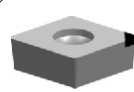
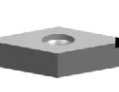
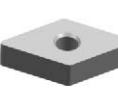
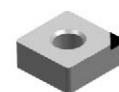
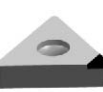
			
RNGX	RNMG	TNMX	YNMX YNUX
B55	B55	B55	B56

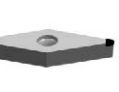
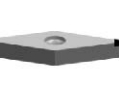
Insertos de Cermet Plaquitas de Cermet Cermet inserts

							
CNMG-DF	CNMG-DM	SNMG	SNMG-DM	DNMG-DF	DNMG-DM	TNMG-DF	TNMG-DM
B58	B58	B58	B59	B59	B59	B60	B60

							
KNUX	CCMT-HF	CCMW	DCMT-HF	SCMW	SPMR	TCMT-HF	TPMR TPGR
B60	B61	B61	B61	B62	B62	B62	B63

Insertos PCB & PCD Plaquitas PCB & PCD PCB & PCD inserts

							
CCGW CCMW	CNGA CNMA	DCGW DCMW	DNGA DNMA	SNGA SNMA	SPGN SPMN	TCGW TCMW	TNGA TNMA
B66	B66	B66	B67	B67	B67	B68	B68

		
TPGN TPMN	VCGW VCMW	VBGW VBMW
B68	B69	B69



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Insertos para torneamento Plaquitas para torneado Turning inserts

Insertos para rosqueamento Plaquitas para roscado Threading inserts (B115-B116)

			
LT11.01N/16.01N/22.01N-GM	RT11.01N/16.01N/22.01N-GM	LT16.01W/22.01W-GM	RT16.01W/22.01W-GM
B115	B115	B116	B116

Insertos para corte e canal Plaquitas para tronzado y ranurado Parting, grooving inserts (B126-B127)

			
154.3	ZQMX	ZSMF	ZSMF
B126	B126	B127	B127



Turning inserts

Insertos para torneamento

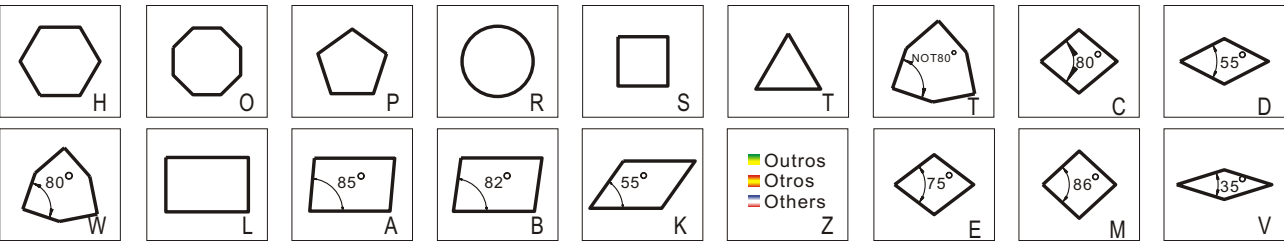
Plaquetas para torneado

- ISO - Chave de código para insertos intercambiáveis
- ISO - Clave de código para plaquetas intercambiable
- ISO - Indexable insert code key

Exemplo Ejemplo Example

Diagram showing the breakdown of the ISO code **TNMG220408-DM** into its components: Insert shape (T), Nose radius (N), Major cutting edge clearance angle (M), Insert thickness (G), and Chipbreaker code (D).

Formato da pastilha Formato de la pastilla Insert shape



d. Diâmetro Teórico do Círculo Inserido s. Espessura da Pastilha m. Veja Figura

d. Diámetro Teórico del Círculo Inscrito s. Grosor de la Pastilla m. Veja Figura

d. Theoretical diameter of inscribed circle s. Insert thickness m. See Fig.

Ângulo de folga Ângulo de holgura Major cutting edge clearance angle



Tolerâncias em mm / pol. Tolerancias en mm/ pulg Tolerances, mm inch

Letras Letras Letter Symbol	Tolerâncias em mm m	Tolerancias en mm s	Tolerances in mm d	Tolerâncias em pol. m	Tolerancias en pulg. s	Tolerances in inches d
A	±0.005	±0.025	±0.025	±0.0002	±0.001	±0.0010
F	±0.005	±0.025	±0.013	±0.0002	±0.001	±0.0005
C	±0.013	±0.025	±0.025	±0.0005	±0.001	±0.0010
H	±0.013	±0.025	±0.013	±0.0005	±0.001	±0.0005
E	±0.025	±0.025	±0.025	±0.0010	±0.001	±0.0010
G	±0.025	±0.13	±0.025	±0.0010	±0.005	±0.0010
J	±0.005	±0.025	±0.05 ±0.13	±0.0002	±0.001	±0.002 ±0.005
K	±0.013	±0.025	±0.05 ±0.13	±0.0005	±0.001	±0.002 ±0.005
L	±0.025	±0.025	±0.05 ±0.13	±0.0010	±0.001	±0.002 ±0.005
M	±0.08 ±0.18	±0.13	±0.05 ±0.13	±0.003 ±0.007	±0.005	±0.002 ±0.005
N	±0.08 ±0.18	±0.025	±0.05 ±0.13	±0.003 ±0.007	±0.001	±0.002 ±0.005
U	±0.13 ±0.38	±0.13	±0.08 ±0.25	±0.005 ±0.015	±0.005	±0.003 ±0.010

Varia dependendo do tamanho do inserto para as formas H,O,P,S,T,C,E,M,W,R,V e D. Veja tabela abaixo.
Variedades dependen del tamaño del inserto para insertos de forma H,O,P,S,T,C,E,M,R,V y D. Ver la tabla abajo
Varies depending on the insert size for insert shapes H,O,P,S,T,C,E,M,W,R,V and D See table below
Inserto H,O,P,S,T,C,E,M,W,R Plaqueta H,O,P,S,T,C,E,M,W,R Insert shape H,O,P,S,T,C,E,M,W,R



Turning inserts

Insertos para torneamento

Plaquetas para torneado

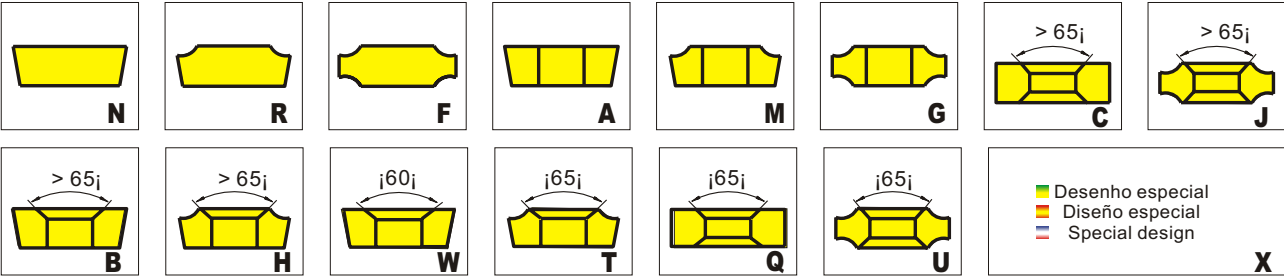
- ISO - Chave de código para insertos intercambiáveis
- ISO - Clave de código para plaquetas intercambiable
- ISO - Indexable insert code key

Diâmetro do circunscrito Diámetro circunscrito Inscribed circle diameter	Tolerâncias a para M Tolerancias a para M Tolerances for M	Tolerâncias a para D Tolerancias a para D Tolerances for D	Tolerâncias a para M Tolerancias a para M Tolerances for M	Tolerâncias a para D Tolerancias a para D Tolerances for D	Tolerâncias a para M Tolerancias a para M Tolerances for M	Tolerâncias a para D Tolerancias a para D Tolerances for D
(mm)	in	(mm)	in	(mm)	in	(mm)
6.35	0.250	±0.08	±0.003	±0.13	±0.005	±0.05
9.525(10)	0.375	±0.08	±0.003	±0.13	±0.005	±0.05
12.7(12)	0.500	±0.13	±0.005	±0.20	±0.008	±0.08
15.875(16)	0.625	±0.15	±0.006	±0.27	±0.011	±0.10
19.05(20)	0.750	±0.15	±0.006	±0.27	±0.011	±0.10
25.4	1.000	±0.18	±0.007	±0.38	±0.015	±0.13

Inserto Forma D Plaqueta Foma D Insert shape D Inserto Forma V Plaqueta Foma V Insert shape V

Diâmetro do circunscrito Diámetro circunscrito Inscribed circle diameter	Tolerâncias a para M Tolerancias a para M Tolerances for M	Tolerâncias a para D Tolerancias a para D Tolerances for D	Diâmetro do circunscrito Diámetro circunscrito Inscribed circle diameter	Tolerâncias a para M Tolerancias a para M Tolerances for M	Tolerâncias a para D Tolerancias a para D Tolerances for D
(mm)	pol	(mm)	in	(mm)	in
6.35	0.250	±0.11	±0.004	±0.05	±0.002
9.525	0.375	±0.11	±0.004	±0.05	±0.002
12.70	0.500	±0.15	±0.006	±0.08	±0.003
15.875	0.625	±0.18	±0.007	±0.10	±0.004
19.05	0.750	±0.18	±0.007	±0.10	±0.004

Quebra-cavaco e/ou Tipo de Fixação Rompe-Viruta y/o tipo de fijación Chipbreaker and /or fixing type



Espessura do Inserto(mm) Grosor de la Plaqueta(mm) Insert thickness(mm)

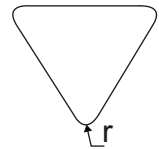
μlmm	00s=0.79	02s=2.38	04s=4.76	06s=6.35	T9s= 9.72
	T0s=0.99	T2s=2.58	T4s=4.96	T6s=6.75	11s= 1 1.11
	01s=1.59	03s=3.18	05s=5.56	07s=7.94	12s= 12.70
	T1s=1.98	T3s=3.97	T5s=5.95	09s=9.52	

Comprimento da Aresta de Corte (mm) Largo de la Arista de Corte(mm) Cutting edge length(mm)

ic mm	ic Pol.	C	D	R	S	T	V	W	K
3.97	5/32"					06			
5.0				05					
5.56	7/32"					09			
6.0				06					
6.35	1/4"	06	07			11	11		
8.0				08					
9.525	3/8"	09	11	09	09	16	16	06	16*)
10.0				10					
12.0				12					
12.7	1/2"	12	15	12	12	22	22	08	
15.875	5/8"	16		15	15	27			
16.0			19	16					
19.05	3/4"	19		19	19	33			
20.0				20					
25.0	1"	25	25	25	25				
25.4				25	25				
31.75				31					
32				32					

Raio de Ponta, r (mm) Radio de Punta, r (mm) Nose radius, r mm

Raio Radio Radius	00	02-0.2	04-0.4	08-0.8	12-1.2	16-1.6	20-2.0	24-2.4	32-3.2	X-Especial



Mo - Para diâmetros e medidas métricas
Para diámetros y medidas métricas
Inglês

Código do Quebra-Cavaco
Código de Rompe-Viruta
Chipbreakers code

Indica as propriedades de corte e
Quebra-Cavaco dos Insertos
Indica las propiedades de corte y
Rompe-Viruta de los Insertos
Position 10 indicates the cutting properties &
chipbreakers of inserts

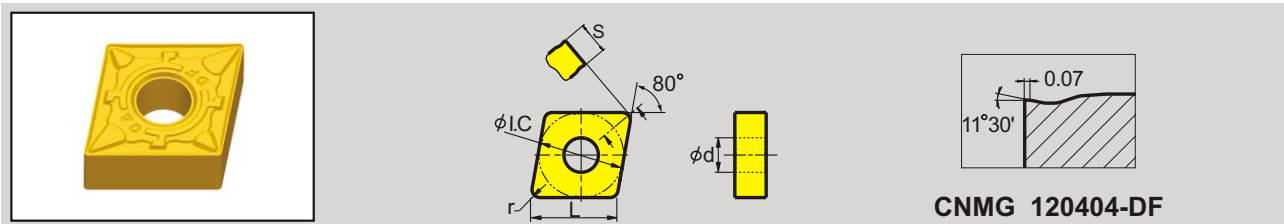


Turning inserts

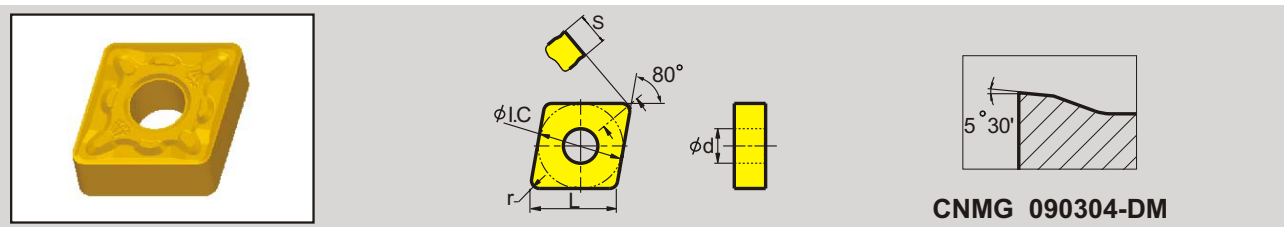
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura										Classe sem Cobertura						
								Grados con Cobertura																
			Coated Grade										CVD				PVD		Uncoated Grade					
CNMG	(ISO)	(ANSI)	L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				YC10	YC40	YD101	YD201
	090304-DF	321-DF	9.7	9.525	3.18	3.81	0.4	●	○															
	090308-DF	322-DF	9.7	9.525	3.18	3.81	0.8	●	○															
	120404-DF	431-DF	12.9	12.7	4.76	5.16	0.4	●	○															
	120408-DF	432-DF	12.9	12.7	4.76	5.16	0.8	●	○															
	120412-DF	433-DF	12.9	12.7	4.76	5.16	1.2	●	○															



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura												Classe sem Cobertura					
								Grados con Cobertura										PVD							
						Coated Grade																			
			CVD												PVD										
			L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252					YC10	YC40	YD101	YD201
CNMG	(ISO)	(inch)																							
	090304-DM	321-DM	9.7	9.525	3.18	3.81	0.4	○	●	○		●													
	090308-DM	322-DM	9.7	9.525	3.18	3.81	0.8	○	●	○		●													
	090312-DM	323-DM	9.7	9.525	3.18	3.81	1.2	○	●	○		●													
	120404-DM	431-DM	12.9	12.7	4.76	5.16	0.4	○	●	○		●						○							
	120408-DM	432-DM	12.9	12.7	4.76	5.16	0.8	○	●	○		●						○							
	120412-DM	433-DM	12.9	12.7	4.76	5.16	1.2	○	●	○		●						○							
	120416-DM	434-DM	12.9	12.7	4.76	5.16	1.6	○	●	○		●													
	160608-DM	542-DM	16.1	15.875	6.35	6.35	0.8	○	●	○		●													
	160612-DM	543-DM	16.1	15.875	6.35	6.35	1.2	○	●	○		●													
	160616-DM	544-DM	16.1	15.875	6.35	6.35	1.6	○	●	○		●													
	190608-DM	642-DM	19.3	19.05	6.35	7.94	0.8	○	●	○		●													
190612-DM	643-DM	19.3	19.05	6.35	7.94	1.2	○	●	○		●														
190616-DM	644-DM	19.3	19.05	6.35	7.94	1.6	○	●	○		●														

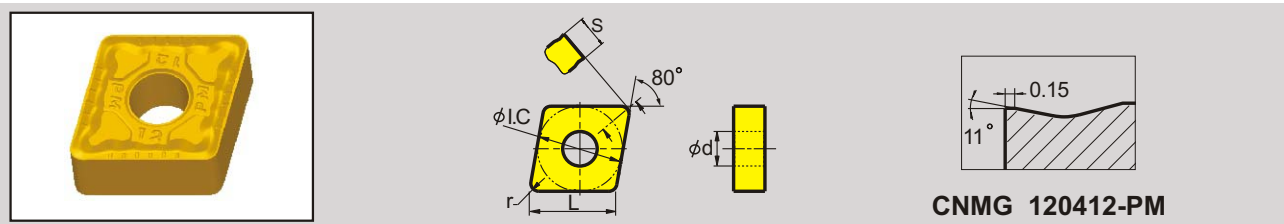


Turning inserts

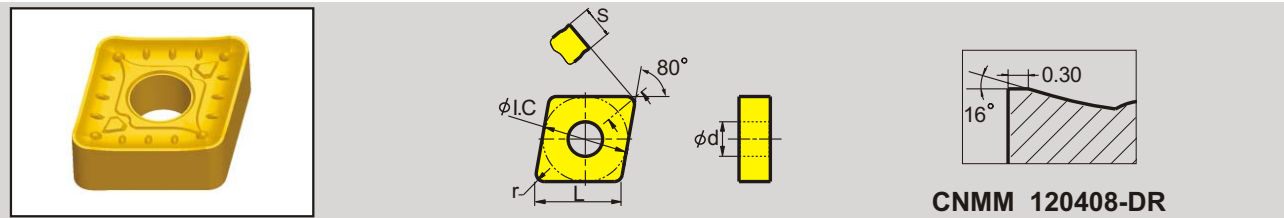
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
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Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD								PVD					
			L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YBZ35	YBM252		YC10	YC40	YD101
CNMG	(ISO)	(inch)																			
	090304-PM	321-PM	9.7	9.525	3.18	3.81	0.4	○	●	○											
	090308-PM	322-PM	9.7	9.525	3.18	3.81	0.8	○	●	○											
	090312-PM	323-PM	9.7	9.525	3.18	3.81	1.2	○	●	○											
	120404-PM	431-PM	12.9	12.7	4.76	5.16	0.4	○	●	○											
	120408-PM	432-PM	12.9	12.7	4.76	5.16	0.8	○	●	○											
	120412-PM	433-PM	12.9	12.7	4.76	5.16	1.2	○	●	○											
	120416-PM	434-PM	12.9	12.7	4.76	5.16	1.6	○	●	○											
	160608-PM	542-PM	16.1	15.875	6.35	6.35	0.8	○	●	○											
	160616-PM	544-PM	16.1	15.875	6.35	6.35	1.6	○	●	○											
190608-PM	642-PM	19.3	19.05	6.35	7.94	0.8	○	●	○												
190612-PM	643-PM	19.3	19.05	6.35	7.94	1.2	○	●	○												
190616-PM	644-PM	19.3	19.05	6.35	7.94	1.6	○	○	●												



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura										Classe sem Cobertura					
								Grados con Cobertura															
			Coated Grade										CVD				PVD						
			L	φ.L.C	S	φ.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40	YD101	YD201
CNMM	(ISO)	(inch)																					
	120408-DR	432-DR	12.9	12.7	4.76	5.16	0.8	○	●	○													
	120412-DR	433-DR	12.9	12.7	4.76	5.16	1.2	○	●	○													
	120416-DR	434-DR	12.9	12.7	4.76	5.16	1.6	○	●	○													
	160608-DR	542-DR	16.1	15.875	6.35	6.35	0.8	○	●	○													
	160612-DR	543-DR	16.1	15.875	6.35	6.35	1.2	○	●	○													
	160616-DR	544-DR	16.1	15.875	6.35	6.35	1.6	○	○	●													
	190612-DR	643-DR	19.3	19.05	6.35	7.94	1.2	○	●	○													
	190616-DR	644-DR	19.3	19.05	6.35	7.94	1.6	○	○	●													
	190624-DR	645-DR	19.3	19.05	6.35	7.94	2.4	○	○	●													
250924-DR	866-DR	25.79	25.4	9.525	9.12	2.4	○	○	●														

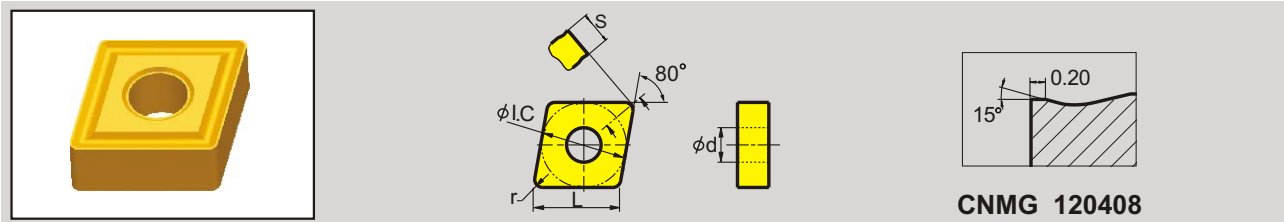


Turning inserts

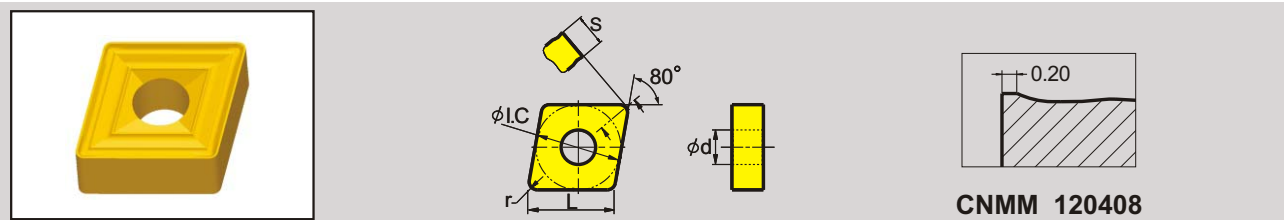
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
CNMG	(ISO)	(inch)																			
	120404	431	12.9	12.7	4.76	5.16	0.4														
	120408	432	12.9	12.7	4.76	5.16	0.8														
	120412	433	12.9	12.7	4.76	5.16	1.2														
	120416	434	12.9	12.7	4.76	5.16	1.6														
	160608	542	16.1	15.875	6.35	6.35	0.8														
	160612	543	16.1	15.875	6.35	6.35	1.2														
	160616	544	16.1	15.875	6.35	6.35	1.6														
	190608	642	19.3	19.05	6.35	7.94	0.8														
	190612	643	19.3	19.05	6.35	7.94	1.2														
	190616	644	19.3	19.05	6.35	7.94	1.6														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
CNMG	(ISO)	(inch)																			
	120404	431	12.9	12.7	4.76	5.16	0.4														
	120408	432	12.9	12.7	4.76	5.16	0.8														
	120412	433	12.9	12.7	4.76	5.16	1.2														
	190608	642	19.3	19.05	6.35	7.94	0.8														
	190612	643	19.3	19.05	6.35	7.94	1.2														
	190616	644	19.3	19.05	6.35	7.94	1.6														
	190624	646	19.3	19.05	6.35	7.94	2.4														

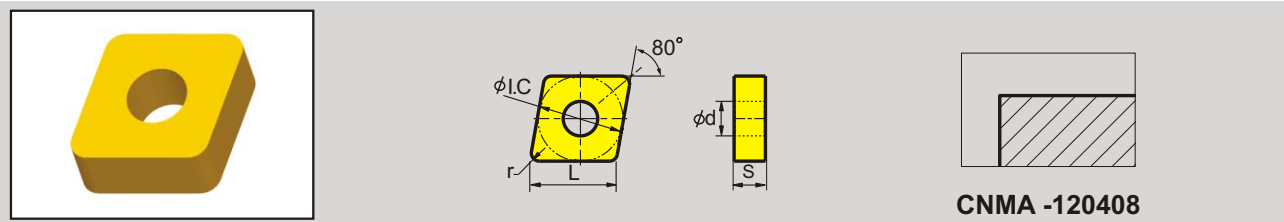


Turning inserts

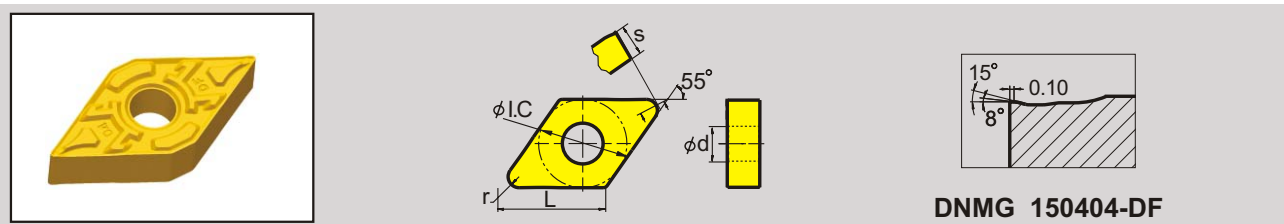
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
CNMA	(ISO)	(inch)																			
	120404	431	12.9	12.7	4.76	5.16	0.4														
	120408	432	12.9	12.7	4.76	5.16	0.8														
	120412	433	12.9	12.7	4.76	5.16	1.2														
	120416	434	12.9	12.7	4.76	5.16	1.6														
	160612	543	16.1	15.875	6.35	6.35	1.2														
	160620	545	16.1	15.875	6.35	6.35	2.0														
	190612	643	19.3	19.05	6.35	7.94	1.2														
	190616	644	19.3	19.05	6.35	7.94	1.6														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
DNMG	(ISO)	(inch)																			
	110404-DF	331-DF	11.6	9.525	4.76	3.81	0.4														
	110408-DF	332-DF	11.6	9.525	4.76	3.81	0.8														
	110412-DF	333-DF	11.6	9.525	4.76	3.81	1.2														
	150404-DF	431-DF	15.5	12.7	4.76	5.16	0.4														
	150408-DF	432-DF	15.5	12.7	4.76	5.16	0.8														
	150604-DF	441-DF	15.5	12.7	6.35	5.16	0.4														
	150608-DF	442-DF	15.5	12.7	6.35	5.16	0.8														
	150612-DF	443-DF	15.5	12.7	6.35	5.16	1.2														

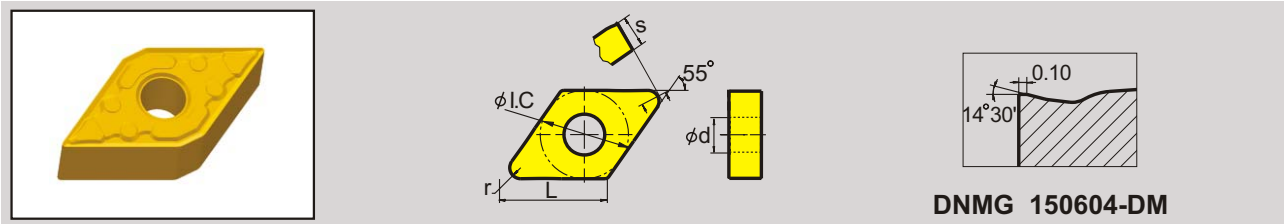


Turning inserts

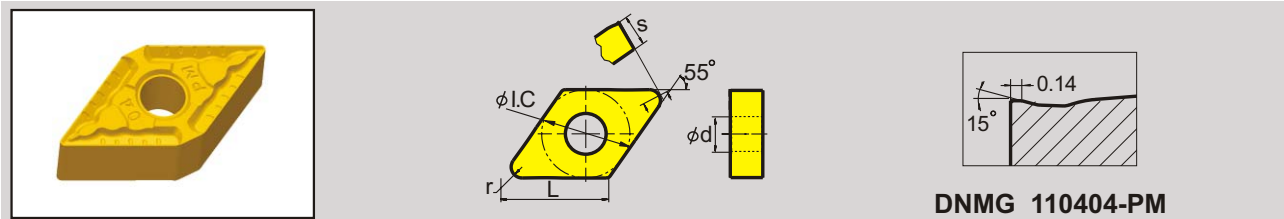
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
DNMG	(ISO)	(inch)	11.6	9.525	4.76	3.81	0.4	○	●	○		○									
	110404-DM	331-DM	11.6	9.525	4.76	3.81	0.8	○	●	○		○									
	110408-DM	332-DM	11.6	9.525	4.76	3.81	1.2	○	●	○		○									
	110412-DM	333-DM	11.6	9.525	4.76	3.81	1.2	○	●	○		○									
	150404-DM	431-DM	15.5	12.7	4.76	5.16	0.4	○	●	○		○					○				
	150408-DM	432-DM	15.5	12.7	4.76	5.16	0.8	○	●	○		○					○				
	150412-DM	433-DM	15.5	12.7	4.76	5.16	1.2	○	●	○		○									
	150604-DM	441-DM	15.5	12.7	6.35	5.16	0.4	○	●	○		○					○				
	150608-DM	442-DM	15.5	12.7	6.35	5.16	0.8	○	●	○		○					○				
	150612-DM	443-DM	15.5	12.7	6.35	5.16	1.2	○	●	○		○									
	150616-DM	444-DM	15.5	12.7	6.35	5.16	1.6	○	●	○		○									



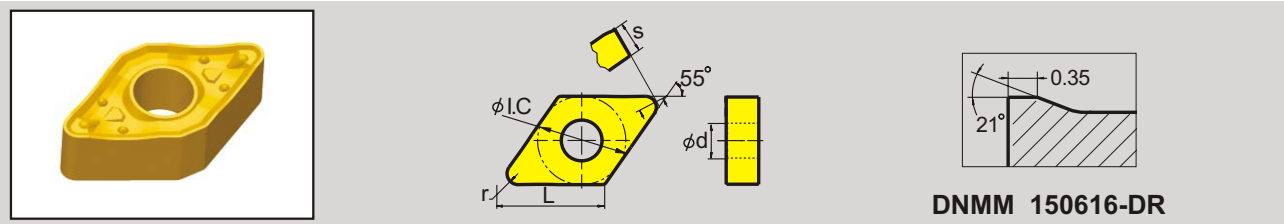
Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
DNMG	(ISO)	(inch)	11.6	9.525	4.76	3.81	0.4		●												
	110404-PM	331-PM	11.6	9.525	4.76	3.81	0.8		●												
	110408-PM	332-PM	11.6	9.525	4.76	3.81	1.2	○	●	○											
	110412-PM	333-PM	11.6	9.525	4.76	3.81	1.2	○	●	○											
	150404-PM	431-PM	15.5	12.7	4.76	5.16	0.4		●	○											
	150408-PM	432-PM	15.5	12.7	4.76	5.16	0.8	○	●	○											
	150412-PM	433-PM	15.5	12.7	4.76	5.16	1.2	○	●	○											
	150416-PM	434-PM	15.5	12.7	4.76	5.16	1.6	○	●	○											
	150604-PM	441-PM	15.5	12.7	6.35	5.16	0.4	○	●	○											
	150608-PM	442-PM	15.5	12.7	6.35	5.16	0.8	○	●	○											
	150612-PM	443-PM	15.5	12.7	6.35	5.16	1.2	○	●	○											
	150616-PM	444-PM	15.5	12.7	6.35	5.16	1.6	○	●	○											

Turning inserts

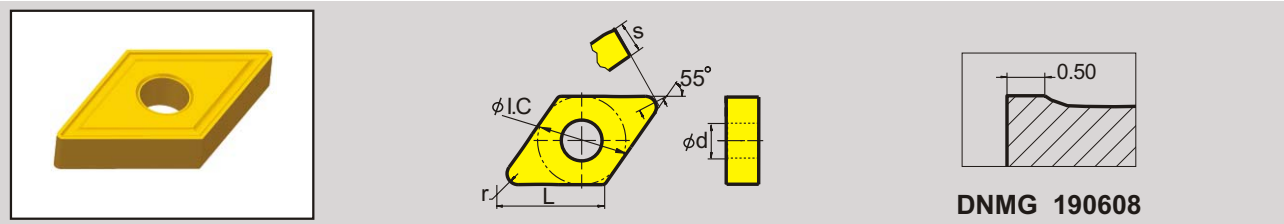
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
DNMM	(ISO)	(inch)	15.5	12.7	6.35	5.16	0.8	○	●	○											
	150608-DR	442-DR	15.5	12.7	6.35	5.16	1.2	○	●	○											
	150612-DR	443-DR	15.5	12.7	6.35	5.16	1.2	○	●	○											
	150616-DR	444-DR	15.5	12.7	6.35	5.16	1.6		○	●											



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
DNMG	(ISO)	(inch)	15.5	12.7	6.35	5.16	0.4		●												
	150604	441	15.5	12.7	6.35	5.16	0.8		●												
	150608	442	15.5	12.7	6.35	5.16	1.2		●												
	150612	443	15.5	12.7	6.35	5.16	1.2		●												
	150616	444	15.5	12.7	6.35	5.16	1.6		●												
DNMG	(ISO)	(inch)	19.3	15.875	6.35	7.94	0.8		●												
	190608	542	19.3	15.875	6.35	7.94	1.2		●												
	190612	543	19.3	15.875	6.35	7.94	1.2		●												

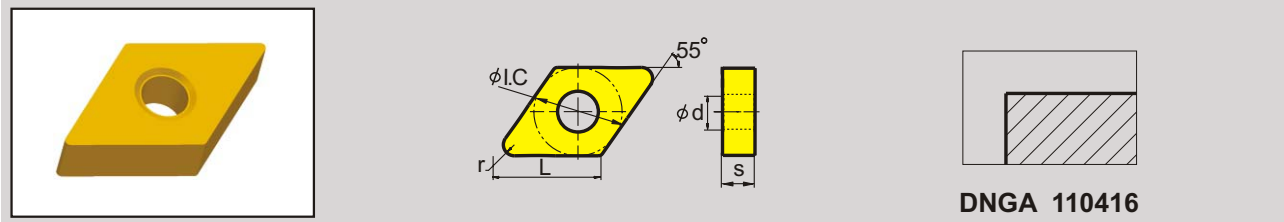


Turning inserts

Insertos para torneamento

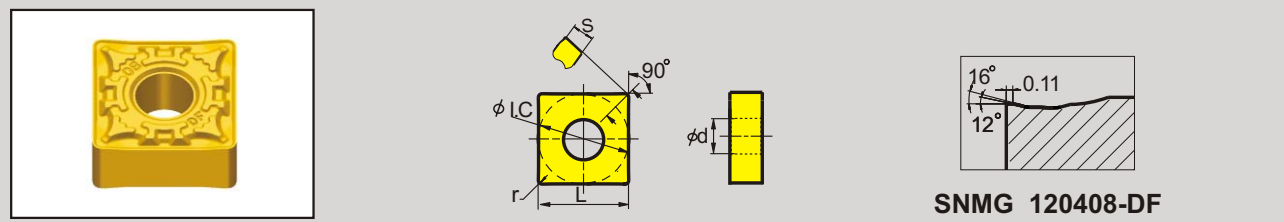
Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



DNGA 110416

Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
DNGA	(ISO)	(inch)	L	phi.L.C	S	phi.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
	110416	334	11.6	9.525	4.76	3.81	1.6														
	110424	336	11.6	9.525	4.76	3.81	2.4														
	150404	431	15.5	12.7	4.76	5.16	0.4														
	150408	432	15.5	12.7	4.76	5.16	0.8														
	150604	441	15.5	12.7	6.35	5.16	0.4														
	150608	442	15.5	12.7	6.35	5.16	0.8														
DNMA	150612	443	15.5	12.7	6.35	5.16	1.2														
	110416	334	11.6	9.525	4.76	3.81	1.6														
	110424	336	11.6	9.525	4.76	3.81	2.4														
	150404	431	15.5	12.7	4.76	5.16	0.4														
	150604	441	15.5	12.7	6.35	5.16	0.4														
	150608	442	15.5	12.7	6.35	5.16	0.8														
	150612	443	15.5	12.7	6.35	5.16	1.2														
	150616	444	15.5	12.7	6.35	5.16	1.6														



SNMG 120408-DF

Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
SNMG	(ISO)	(inch)	L	phi.L.C	S	phi.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
	120408-DF	432-DF	12.7	12.7	4.76	5.16	0.8														
	120412-DF	433-DF	12.7	12.7	4.76	5.16	1.2														

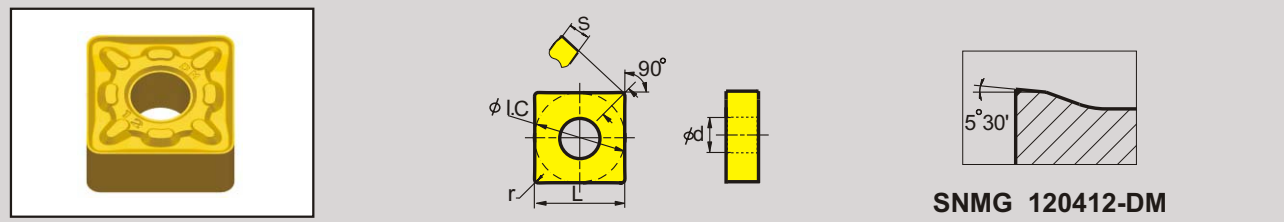


Turning inserts

Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



SNMG 120412-DM

Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD								PVD		YC10	YC40	YD101	YD201
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
SNMG	(ISO)	(inch)	L	phi.L.C	S	phi.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
	090304-DM	321-DM	9.525	9.525	3.18	3.81	0.4														
	090308-DM	322-DM	9.525	9.525	3.18	3.81	0.8														
	090312-DM	323-DM	9.525	9.525	3.18	3.81	1.2														
	120404-DM	431-DM	12.7	12.7	4.76	5.16	0.4														
	120408-DM	432-DM	12.7	12.7	4.76	5.16	0.8														
	120412-DM	433-DM	12.7	12.7	4.76	5.16	1.2														
	120416-DM	434-DM	12.7	12.7	4.76	5.16	1.6														
	150608-DM	542-DM	15.875	15.875	6.35	6.35	0.8														
	150612-DM	543-DM	15.875	15.875	6.35	6.35	1.2														
	150616-DM	544-DM	15.875	15.875	6.35	6.35	1.6														
	190612-DM	643-DM	19.05	19.05	6.35	7.94	1.2														
	190616-DM	644-DM	19.05	19.05	6.35	7.94	1.6														

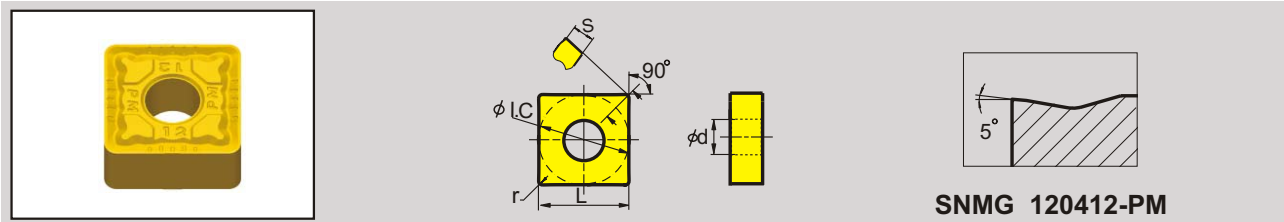


Turning inserts

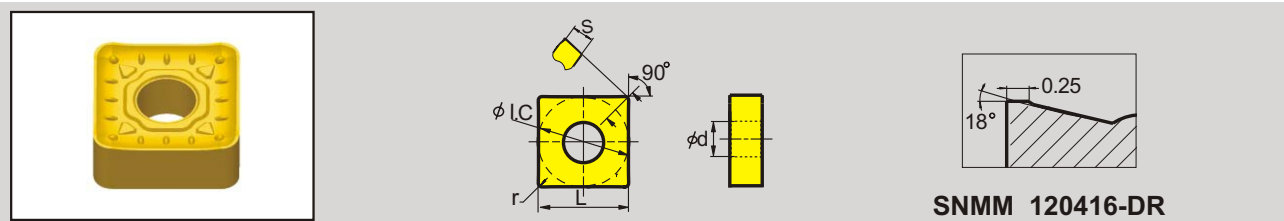
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura										Classe sem Cobertura					
								Grados con Cobertura										Grado sin Cobertura					
			Coated Grade										CVD					PVD		Uncoated Grade			
SNMG	(ISO)	(inch)	L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40	YD101	YD201
	090304-PM	321-PM	9.525	9.525	3.18	3.81	0.4	○	●														
	090308-PM	322-PM	9.525	9.525	3.18	3.81	0.8	○	●	○													
	090312-PM	323-PM	9.525	9.525	3.18	3.81	1.2		●														
	120404-PM	431-PM	12.7	12.7	4.76	5.16	0.4	○	●	○													
	120408-PM	432-PM	12.7	12.7	4.76	5.16	0.8	○	●	○													
	120412-PM	433-PM	12.7	12.7	4.76	5.16	1.2		●	○													
	120416-PM	434-PM	12.7	12.7	4.76	5.16	1.6		●	○													
	150612-PM	543-PM	15.875	15.875	6.35	6.35	1.2		●	○													
190612-PM	643-PM	19.05	19.05	6.35	7.94	1.2		●	○														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura										Classe sem Cobertura					
								Grados con Cobertura															
			Coated Grade										CVD					PVD					
SNMM	(ISO)	(inch)	L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40	YD101	YD201
	120408-DR	432-DR	12.7	12.7	4.76	5.16	0.8		●	○													
	120412-DR	433-DR	12.7	12.7	4.76	5.16	1.2		●	○													
	120416-DR	434-DR	12.7	12.7	4.76	5.16	1.6		●	○													
	150608-DR	542-DR	15.875	15.875	6.35	6.35	0.8		●	○													
	150612-DR	543-DR	15.875	15.875	6.35	6.35	1.2		●	○													
	150616-DR	544-DR	15.875	15.875	6.35	6.35	1.6		○	●													
	190612-DR	643-DR	19.05	19.05	6.35	7.94	1.2		●	○													
	190616-DR	644-DR	19.05	19.05	6.35	7.94	1.6		○	●													
	190624-DR	646-DR	19.05	19.05	6.35	7.94	2.4		○	●													
250924-DR	866-DR	25.4	25.4	9.525	9.12	2.4		○	●														

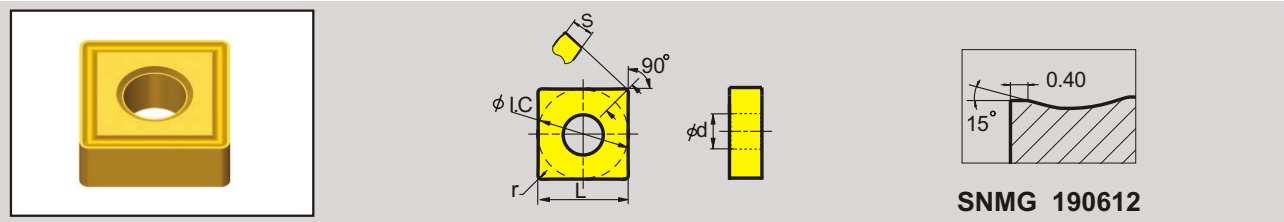


Turning inserts

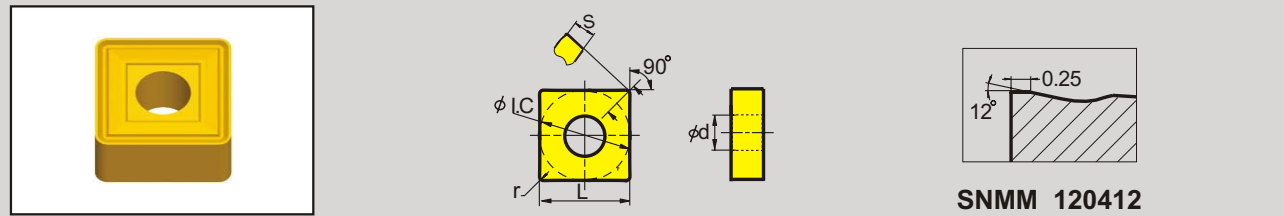
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40
SNMG	(ISO)	(inch)																			
	090304	321	9.525	9.525	3.18	3.81	0.4	○	●												
	090308	322	9.525	9.525	3.18	3.81	0.8	○	●												
	120404	431	12.7	12.7	4.76	5.16	0.4	○	●	○											
	120408	432	12.7	12.7	4.76	5.16	0.8	○	●	○											
	120412	433	12.7	12.7	4.76	5.16	1.2		●	○											
	120416	434	12.7	12.7	4.76	5.16	1.6		●	○											
	150608	542	15.875	15.875	6.35	6.35	0.8	○	●	○											
	150612	543	15.875	15.875	6.35	6.35	1.2	○	●	○											
	190612	643	19.05	19.05	6.35	7.94	1.2		●	○											
190616	644	19.05	19.05	6.35	7.94	1.6		●	○												
250724	856	25.4	25.4	7.94	9.12	2.4		●	○												
250924	866	25.4	25.4	9.52	9.12	2.4		●	○												



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD								PVD					
			L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				YC10
SNMM	(ISO)	(inch)																			
	090304	321	9.525	9.525	3.18	3.81	0.4	●													
	090308	322	9.525	9.525	3.18	3.81	0.8	●													
	120408	432	12.7	12.7	4.76	5.16	0.8		●												
	120412	433	12.7	12.7	4.76	5.16	1.2		●												
	120416	434	12.7	12.7	4.76	5.16	1.6		●												
	190608	642	19.05	19.05	6.35	7.94	0.8		●												
	190612	643	19.05	19.05	6.35	7.94	1.2		●	○											
	190616	644	19.05	19.05	6.35	7.94	1.6		○	●											
	250724	856	25.4	25.4	7.94	9.12	2.4		○	●											
250924	866	25.4	25.4	9.525	9.19	2.4		○	●												

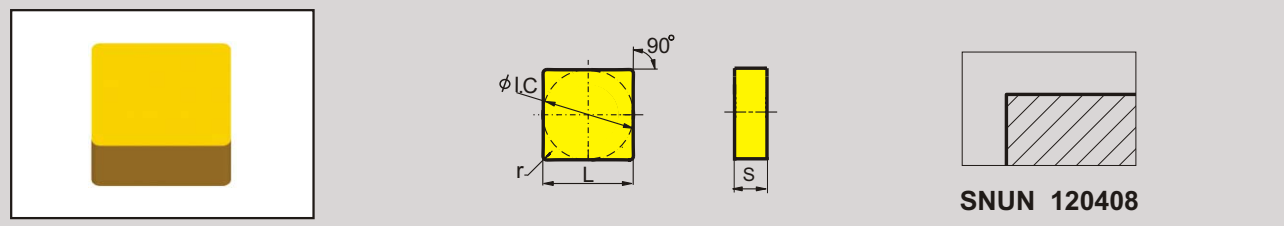


Turning inserts

Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



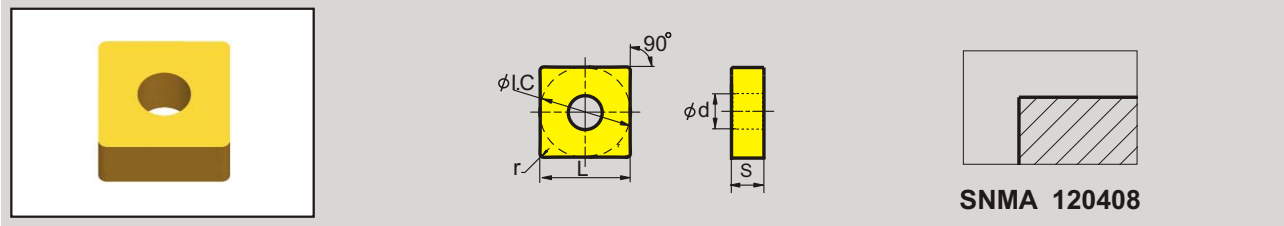
Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)				Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	r	CVD								PVD		YC10	YC40	YD101	YD201
							YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
SNUN	(ISO)	(inch)																		
	090304	321	9.525	9.525	3.18	0.4														
	090308	322	9.525	9.525	3.18	0.8														
	120408	432	12.7	12.7	4.76	0.8														
	120412	433	12.7	12.7	4.76	1.2														
	150408	532	15.875	15.875	4.76	0.8														
	150412	533	15.875	15.875	4.76	1.2														
	190408	632	19.05	19.05	4.76	0.8														
	190412	633	19.05	19.05	4.76	1.2														
	190424	636	19.05	19.05	4.76	2.4														
SNGN	250624	846	25.4	25.4	6.35	2.4														
	250724	856	25.4	25.4	7.94	2.4														
	250924	866	25.4	25.4	9.525	2.4														
	090308	322	9.525	9.525	3.18	0.8														
	120408	432	12.7	12.7	4.76	0.8														

Turning inserts

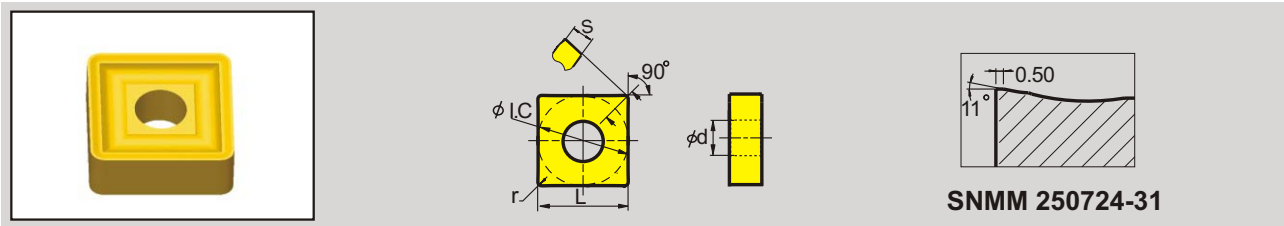
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD								PVD					
			L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40
SNMA	(ISO)	(inch)																			
	090304	321	9.525	9.525	3.18	3.81	0.4														
	090308	322	9.525	9.525	3.18	3.81	0.8														
	120404	431	12.7	12.7	4.76	5.16	0.4														
	120408	432	12.7	12.7	4.76	5.16	0.8														
	120416	433	12.7	12.7	4.76	5.16	1.6														
	150608	542	15.875	15.875	6.35	6.35	0.8														
	190612	643	19.05	19.05	6.35	7.94	1.2														
SNGA	190616	644	19.05	19.05	6.35	7.94	1.6														
	090316	324	9.525	9.525	3.18	3.81	1.6														
	090408	332	9.525	9.525	4.76	3.81	0.8														
	120404	431	12.7	12.7	4.76	5.16	0.4														
	120408	432	12.7	12.7	4.76	5.16	0.8														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade								
								CVD								PVD										
			SNMM	(ISO)	(inch)	L	φ.L.C	S	φ.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40	YD101	YD201
				190624-31	646-31	19.05	19.05	6.35	7.94	2.4		○	●													
250724-31	856-31	25.4		25.4	7.94	9.19	2.4		○	●																

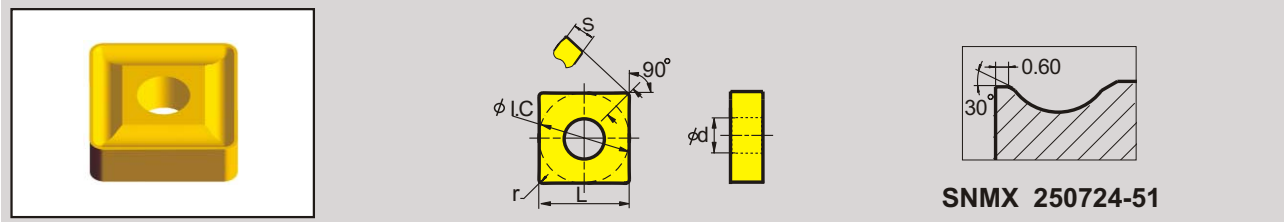


Turning inserts

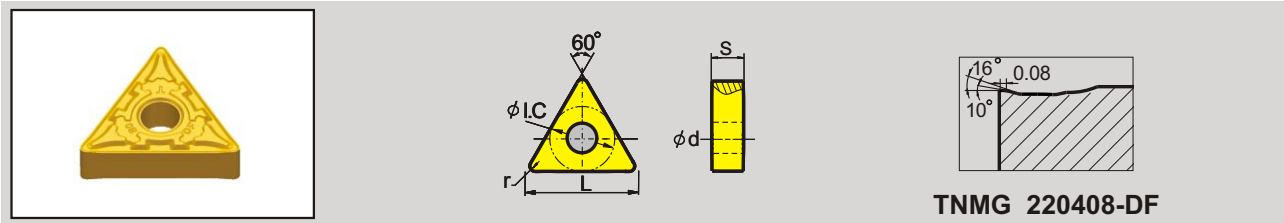
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD										PVD			
			L	phi.L.C	S	phi.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
SNMX	(ISO) 250724-51	(inch) 856-51	25.4	25.4	7.94	9.12	2.4														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD										PVD			
			L	phi.L.C	S	phi.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
TNMG	(ISO) 160404-DF	(inch) 331-DF	16.5	9.525	4.76	3.81	0.4														
	160408-DF	332-DF	16.5	9.525	4.76	3.81	0.8														
	160412-DF	333-DF	16.5	9.525	4.76	3.81	1.2														
	220408-DF	432-DF	22	12.7	4.76	5.16	0.8														
	220412-DF	433-DF	22	12.7	4.76	5.16	1.2														

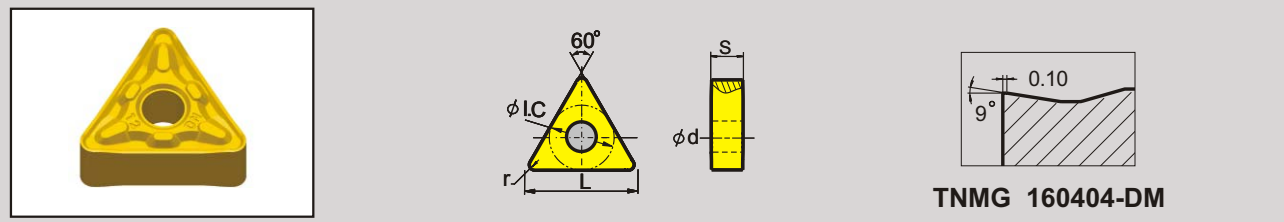


Turning inserts

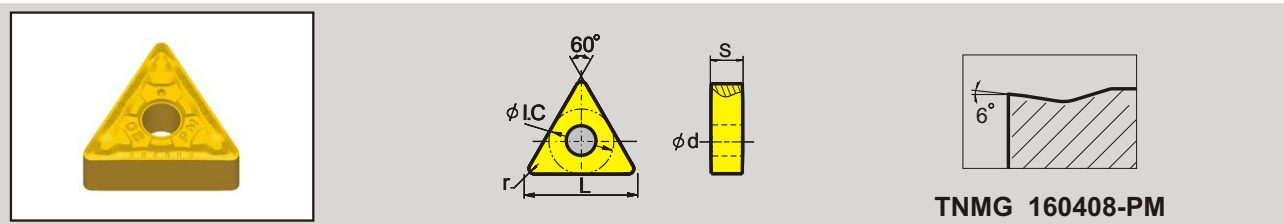
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD										PVD			
			L	phi.L.C	S	phi.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
TNMG	(ISO) 110308-DM	(inch) 222-DM	11	6.35	3.18	2.26	0.4														
	160404-DM	331-DM	16.5	9.525	4.76	3.81	0.4														
	160408-DM	332-DM	16.5	9.525	4.76	3.81	0.8														
	160412-DM	333-DM	16.5	9.525	4.76	3.81	1.2														
	220404-DM	431-DM	22	12.7	4.76	5.16	0.4														
	220408-DM	432-DM	22	12.7	4.76	5.16	0.8														
	220412-DM	433-DM	22	12.7	4.76	5.16	1.2														
	220416-DM	434-DM	22	12.7	4.76	5.16	1.6														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD										PVD			
			L	phi.L.C	S	phi.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
TNMG	(ISO) 110304-PM	(inch) 221-PM	11	6.35	3.18	2.2	0.4														
	110308-PM	222-PM	11	6.35	3.18	2.2	0.8														
	160404-PM	331-PM	16.5	9.525	4.76	3.18	0.4														
	160408-PM	332-PM	16.5	9.525	4.76	3.18	0.8														
	160412-PM	333-PM	16.5	9.525	4.76	3.18	1.2														
	220408-PM	432-PM	22	12.7	4.76	5.16	0.8														
	220412-PM	433-PM	22	12.7	4.76	5.16	1.2														
	220416-PM	434-PM	22	12.7	4.76	5.16	1.6														

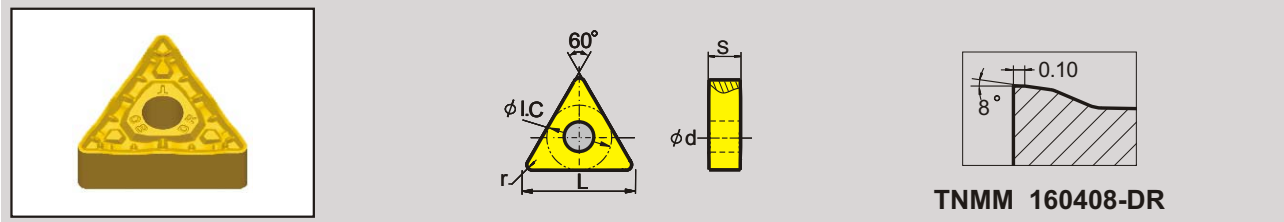


Turning inserts

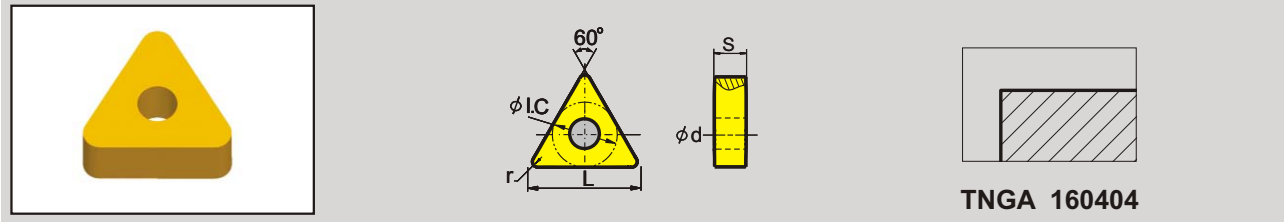
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD										PVD			
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
TNMM	(ISO)	(inch)																			
	160408-DR	332-DR	16.5	9.525	4.76	3.81	0.8														
	160412-DR	333-DR	16.5	9.525	4.76	3.81	1.2														
	220408-DR	432-DR	22	12.7	4.76	5.16	0.8														
	220412-DR	433-DR	22	12.7	4.76	5.16	1.2														
	220416-DR	434-DR	22	12.7	4.76	5.16	1.6														
	270612DR	543-DR	27.515	15.875	6.35	6.35	1.2														
	270616-DR	544-DR	27.515	15.875	6.35	6.35	1.6														
	270624-DR	546-DR	27.515	15.875	6.35	6.35	2.4														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD										PVD			
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
TNMA	(ISO)	(inch)																			
	160304	321	16.5	9.525	3.18	2.36	0.4														
	160308	322	16.5	9.525	3.18	2.36	0.8														
	160404	331	16.5	9.525	4.76	3.81	0.4														
	160408	332	16.5	9.525	4.76	3.81	0.8														
	160412	333	16.5	9.525	4.76	3.81	1.2														
	160416	334	16.5	9.525	4.76	3.81	1.6														
	220404	431	22	12.7	4.76	5.16	0.4														
TNMA	220408	432	22	12.7	4.76	5.16	0.8														
	270616	544	27.5	15.875	6.35	6.35	1.6														
	110304	221	11	6.35	3.18	2.36	0.4														
	110308	222	11	6.35	3.18	2.36	0.8														
	160404	331	16.5	9.525	4.76	3.81	0.4														
TNMA	160416	334	16.5	9.525	4.76	3.81	1.6														

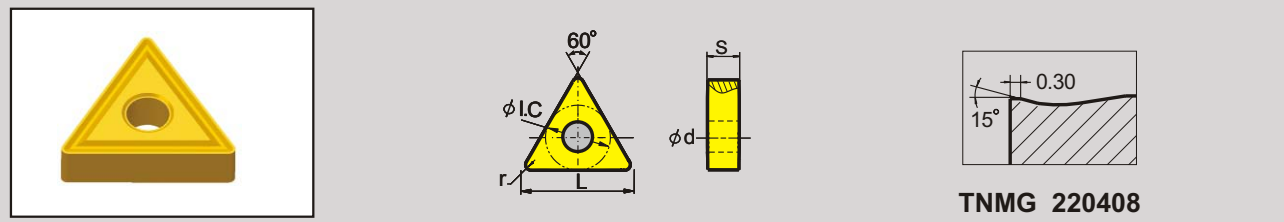


Turning inserts

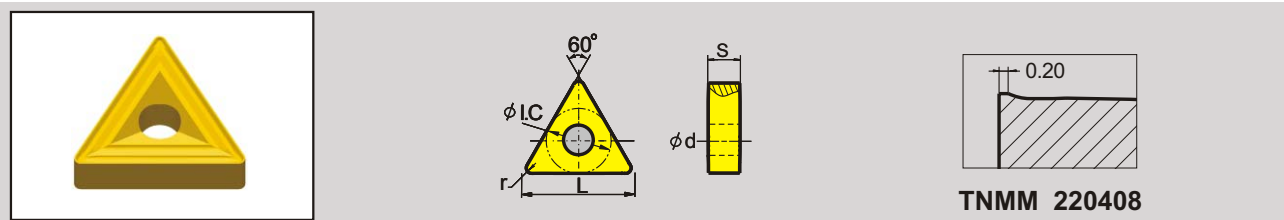
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD										PVD			
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
TNMG	(ISO)	(inch)																			
	110308	222	11	6.35	3.18	2.26	0.8														
	160404	321	16.5	9.525	4.76	3.81	0.4														
	160408	322	16.5	9.525	4.76	3.81	0.8														
	160412	323	16.5	9.525	4.76	3.81	1.2														
	220404	431	22	12.7	4.76	5.16	0.4														
	220408	432	22	12.7	4.76	5.16	0.8														
	220412	433	22	12.7	4.76	5.16	1.2														
	220416	434	22	12.7	4.76	5.16	1.6														
	270612	543	27.5	15.875	6.35	6.35	1.2														
	270616	544	27.5	15.875	6.35	6.35	1.6														
	330916	664	33	19.05	9.52	7.94	1.6														
	330924	666	33	19.05	9.52	7.94	2.4														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	phi.d	r	CVD										PVD			
								YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252	YC10	YC40	YD101	YD201
TNMM	(ISO)	(inch)																			
	160404	331	16.5	9.525	4.76	3.81	0.4														
	160408	332	16.5	9.525	4.76	3.81	0.8														
	160412	333	16.5	9.525	4.76	3.81	1.2														
	220408	432	22	12.7	4.76	5.16	0.8														
	220412	433	22	12.7	4.76	5.16	1.2														
TNMM	220416	434	22	12.7	4.76	5.16	1.6														
	270616	544	27.5	15.875	6.35	6.35	1.6														

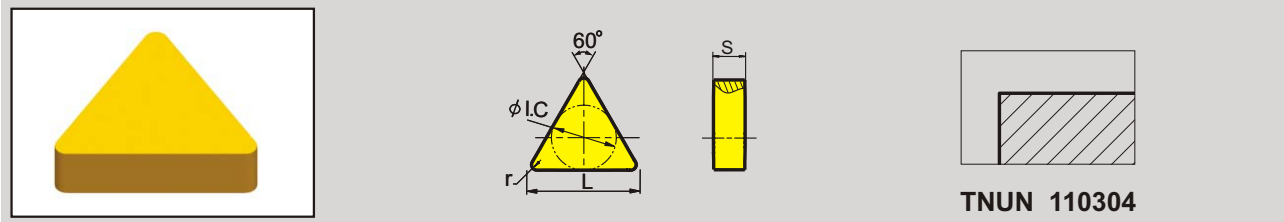


Turning inserts

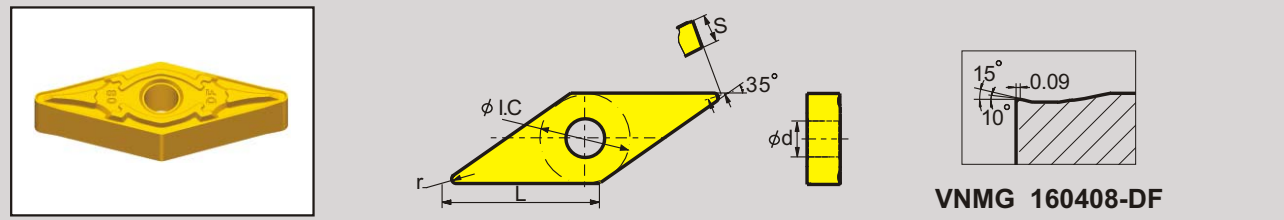
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)				Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
			L	phi.L.C	S	r	CVD								PVD		YC10	YC40	YD101	YD201
							YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				
TNUN	(ISO)	(inch)																		
	110304	221	11	6.35	3.18	0.4														
	160304	321	16.5	9.525	3.18	0.4														
	160308	322	16.5	9.525	3.18	0.8														
	160412	333	16.5	9.525	4.76	1.2														
	220408	432	22	12.7	4.76	0.8														



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD							PVD						
			L	φI.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252				YC10
VNMG	(ISO)	(inch)																			
	160404-DF	331-DF	16.6	9.525	4.76	3.81	0.4	●	○												
	160408-DF	332-DF	16.6	9.525	4.76	3.81	0.8	●	○												

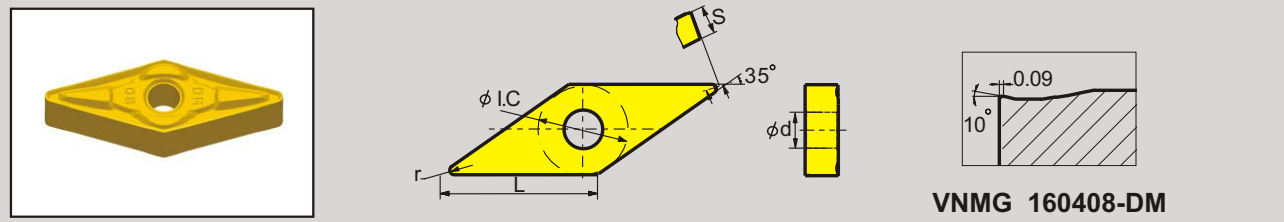


Turning inserts

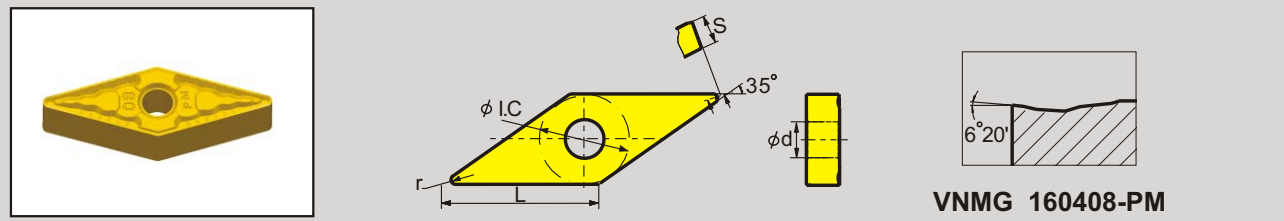
Insertos para torneamento

Plaquetas para torneado

- Insertos ISO para torneamento
- Plaquetas ISO para torneado
- ISO Turning inserts



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade					
								CVD								PVD							
			L	φ.L.C	S	φd	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40	YD101	YD201
VNMG	(ISO)	(inch)																					
	160408-DM	332-DM	16.6	9.525	4.76	3.81	0.8	○	●	○		○											
	160412-DM	333-DM	16.6	9.525	4.76	3.81	1.2	○	●	○		○											



Código Codigo Type			Dimensão (mm) Dimensión (mm) Dimension (mm)					Classes com Cobertura Grados con Cobertura Coated Grade										Classe sem Cobertura Grado sin Cobertura Uncoated Grade			
								CVD								PVD					
			L	φ.L.C	S	φ.d	r	YBC151	YBC251	YBC351	YBM151	YBM251	YBM351	YBD051	YBD151	YB235	YBM252			YC10	YC40
VNMG	(ISO)	(inch)	16.6	9.525	4.76	3.81	0.4														
	160404-PM	331-PM	16.6	9.525	4.76	3.81	0.8														
	160408-PM	332-PM	16.6	9.525	4.76	3.81	0.8														
	160412-PM	333-PM	16.6	9.525	4.76	3.81	1.2														