COMO INTERPRETAR LA ESTANDARIZACION DE LOS INSERTOS DE LAS HERRAMIENTAS ROTATIVAS

● Como está organizada la sección de insertos para herramientas rotativas

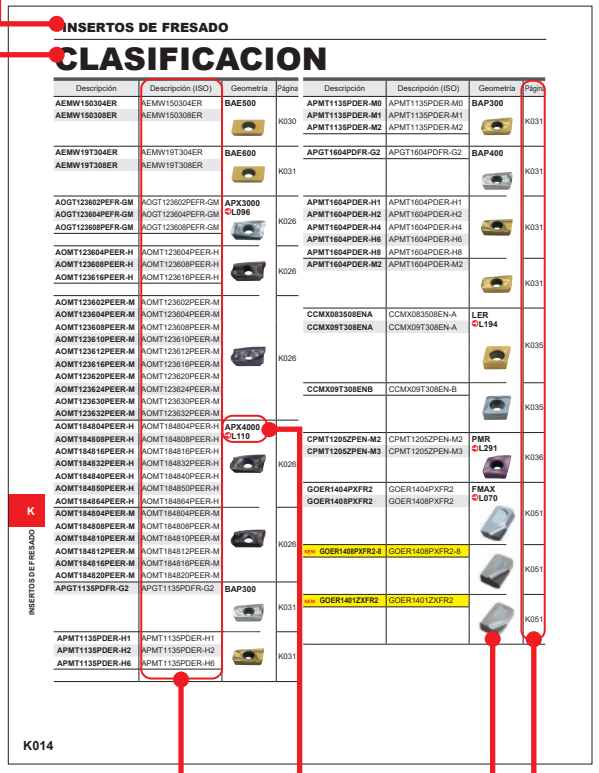
①Organizada de acuerdo al tipo de cortador.
②Cortadores clasificados alfabéticamente.

● Como están organizados los insertos para herramientas rotativas

①Clasificado por insertos para herramientas de fresado, insertos wiper e insertos de barrenado
②Organizados por órden alfabético de descripción.

TITULO

PRODUCTO



DESCRIPCION DEL INSERTO

TIPO DE CORTADOR

FOTO DEL INSERTO

PAGINA DE CONSULTA
Indica la referencia de la página donde viene detallada las características del inserto.

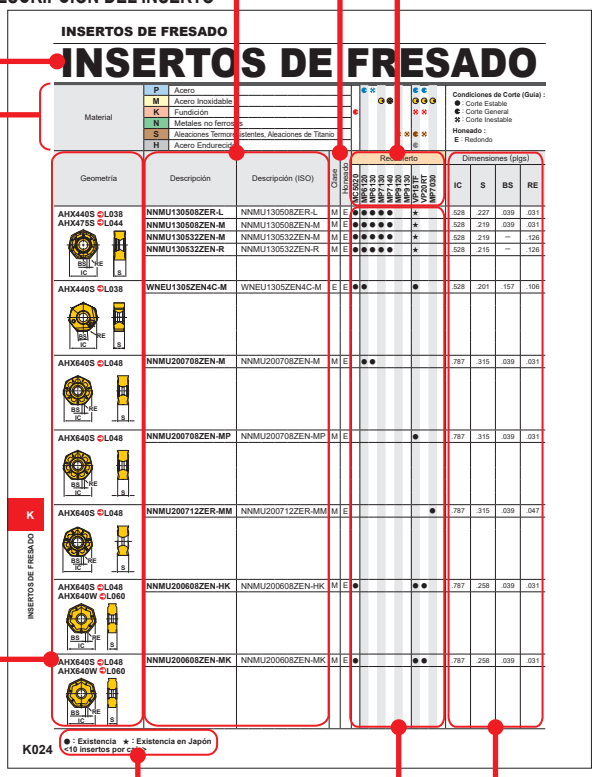
GRADO RECOMENDADO PARA CADA MATERIAL
Condiciones de corte adecuadas para cada material.
Los materiales se muestran como una guía general para seleccionar el grado.
●: Corte Estable ◕: Corte General ✣: Corte Inestable

PRODUCTO DE ACUERDO AL TIPO DE INSERTO

GRADO

TOLERANCIA • HONEADO

DESCRIPCION DEL INSERTO



GEOMETRIA DEL INSERTO

EXISTENCIA

DIMENSIONES DEL INSERTO

MARCA DE EXISTENCIA
Se muestra a mano izquierda de cada doble página.

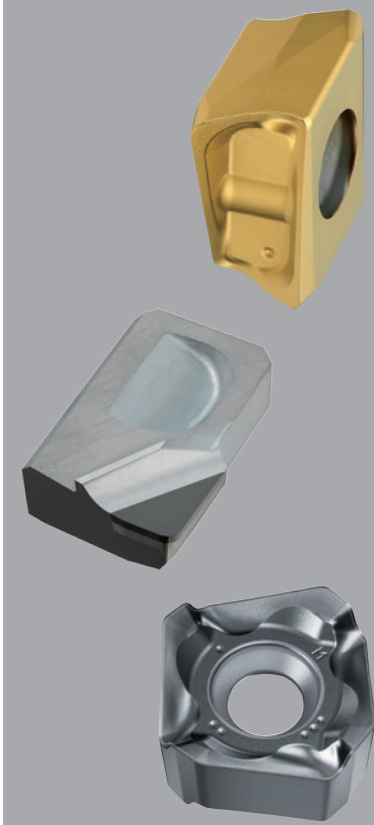
● Para pedido : Especificar descripcion y grado.

HERRAMIENTAS DE FRESADO

INSERTOS ESTANDAR

INSERTOS ESTANDAR DE CBN y PCD

GRADO DEL INSERTO



IDENTIFICACION

■ CODIGO ISO

Símbolo	Geometría de Inserto	
S	Cuadrado	
T	Triángulo	
C	Rómbica 80°	
N	Heptágono	
O	Octagonal	
M	Rómbica 86°	
A	Paralelogramo 85°	
R	Redondo	
X	Diseño Especial	–
W	Wiper	–

① Geometría de Inserto

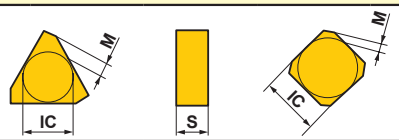
Símbolo	Angulo de Incidencia **AN**
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Otros
X	Otros

Mayor Angulo de Incidencia

② Angulo de Incidencia

	①	②	③	④
PULGADAS	S	E	E	R
METRICO	S	E	E	R

③ Tolerancia



Clase	IC		M	S
A	.500	±.001	±.0002	±.001
C	.250 .375	±.001	±.0005	±.001
E	.500 .625	±.001	±.001	±.001
H	.394 .492	±.0005	±.0005	±.001
G	.551	±.001	±.001	±.005
K	.250	±.002	±.0005	±.001
	.375	±.002	±.0005	±.001
	.500	±.003	±.0005	±.001
	.625	±.003	±.0005	±.001
N	.250	±.002	±.003	±.001
	.375	±.002	±.003	±.001
	.500	±.003	±.006	±.001
	.625	±.004	±.006	±.001
M	.250	±.002	±.003	±.005
	.375	±.002	±.003	±.005
	.500	±.003	±.005	±.005
	.625	±.004	±.006	±.005

④ Rompe viruta y Barreno

Métrico				
Símbolo	Barreno	Especificación del Barreno	Rompeviruta	Geometría
W	Con barreno	Barreno Cilíndrico + Cónico (40°–60°)	No	
T	Con barreno		Una cara	
U	Con barreno	Barreno Cilíndrico + Cónico (40°–60°)	Dos caras	
B	Con barreno	Barreno Cilíndrico + Cónico (70°–90°)	No	
N	Sin barreno	–	No	
R	Sin barreno	–	Una cara	
X	–	–	–	Diseño Especial

Nota 1) Símbolo de dimensiones conforme la norma ISO13399. Consulte las paginas P002-P005 para detalles.

Pulgadas		Diámetro del circulo inscrito (pulgadas)	Métrico			
S	T		R	C	S	T
		.250		06	06	11
		.313		08	07	13
3	3	.375		09	09	16
		.394	10			
		.472	12			
4	4	.500		12	12	22
5		.625		16	15	27
		.787	20			

⑤ Tamaño de Inserto

Pulgadas	Espesor (plgs)	Métrico
2.5	.156	T3
2	.125	03
3	.187	04

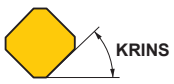
⑥ Espesor del inserto

E	Redondo
F	Filo Vivo
T	Chaflán
S	Chaflán+Honeado
Z	Chaflán

⑨ Condiciones de Filo

⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
4	2	A	F	E	R	1	- JS
12	03	A	F	E	R	1	- JS

⑦ Angulo de Ataque



A	45°
E	75°
P	90°
Z	Angulo de Otros

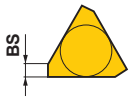
⑧ Angulo de Incidencia del wiper

D	15°
E	20°
F	25°
G	30°

⑩ Sentido de Corte

L	Izquierdo
N	Neutro
R	Derecho

⑪ Ancho de Faceta



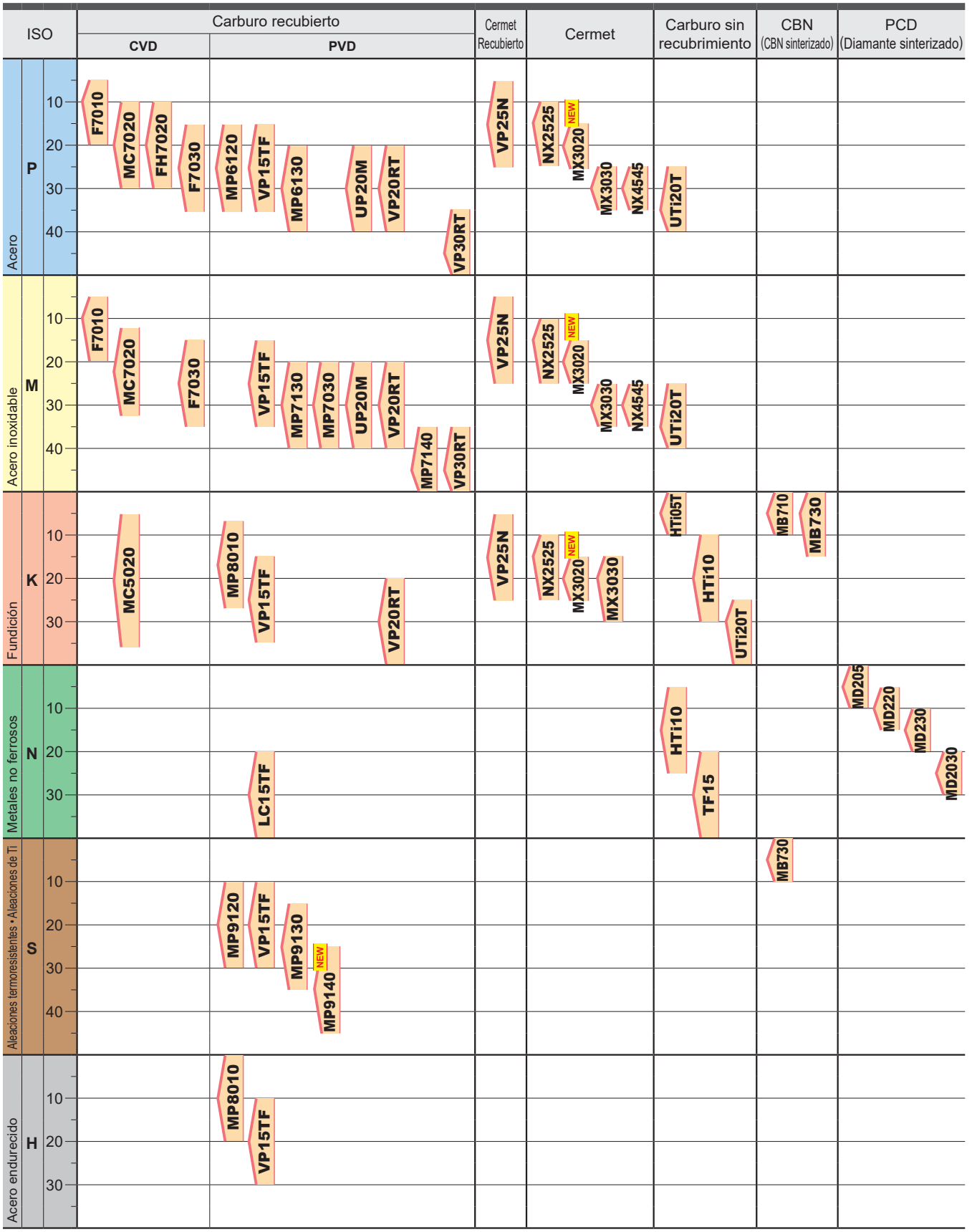
1	.055
2	.094

⑫ Rompe Viruta

Símbolo	Nombre
FT	Rompevirutas FT
HS	Rompevirutas HS
JH	Rompevirutas JH
JM	Rompevirutas JM
JP	Rompevirutas JP
JS	Rompevirutas JS
LS	Rompevirutas LS
MM	Rompevirutas MM
MS	Rompevirutas MS

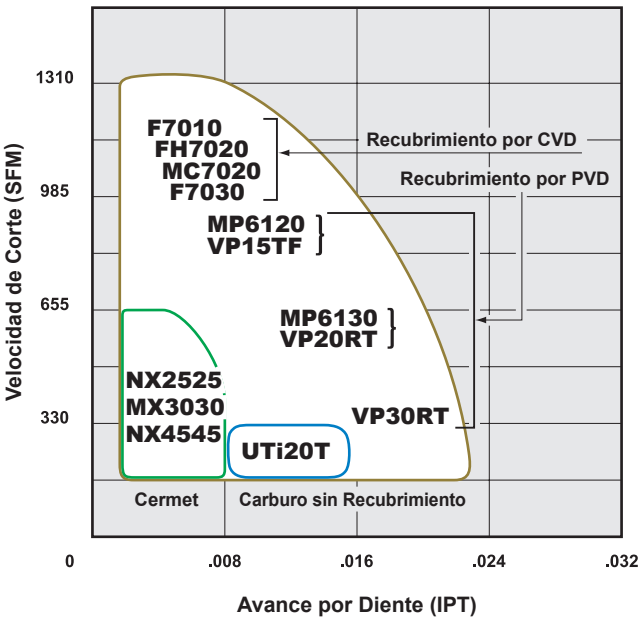
GRADOS PARA FRESADO

●GRADOS PARA INSERTOS DE FRESADO

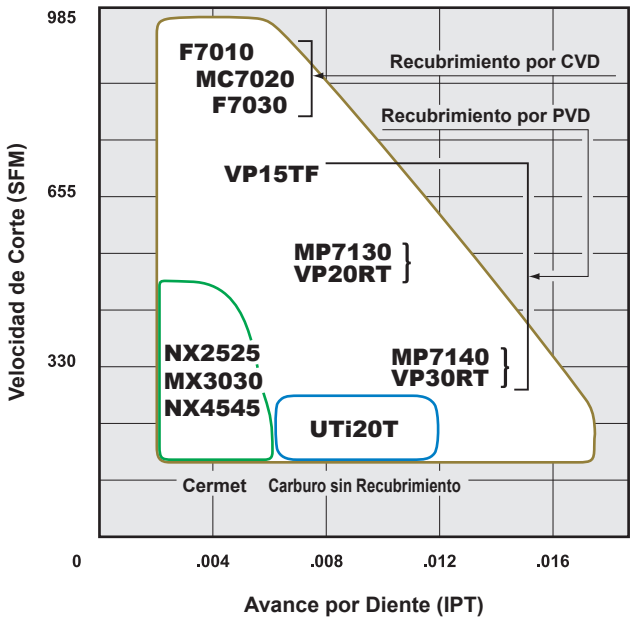


RANGO DE APLICACION PARA FRESADO

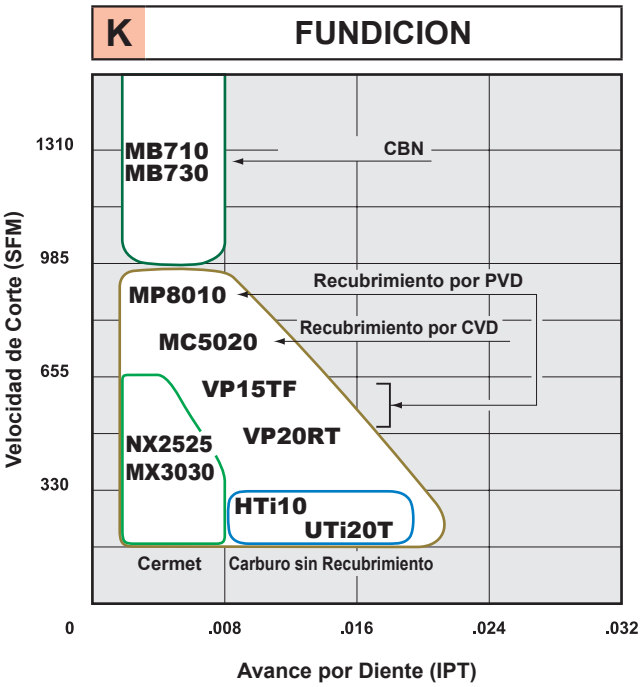
P ACERO



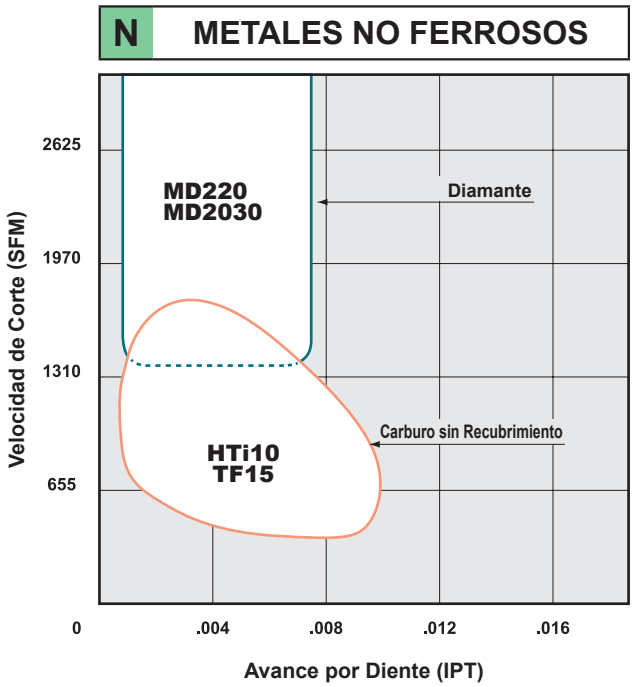
M ACERO INOXIDABLE



K FUNDICION



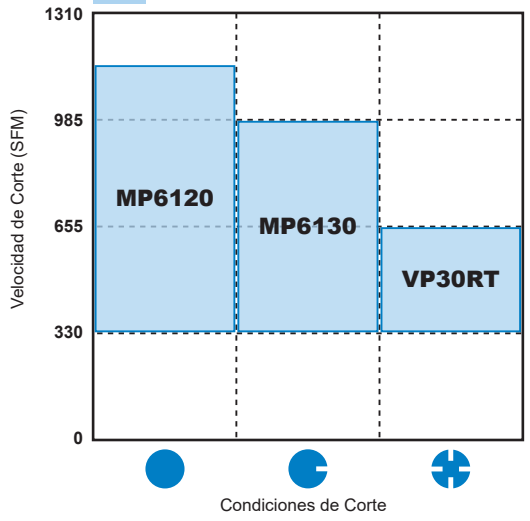
N METALES NO FERROSOS



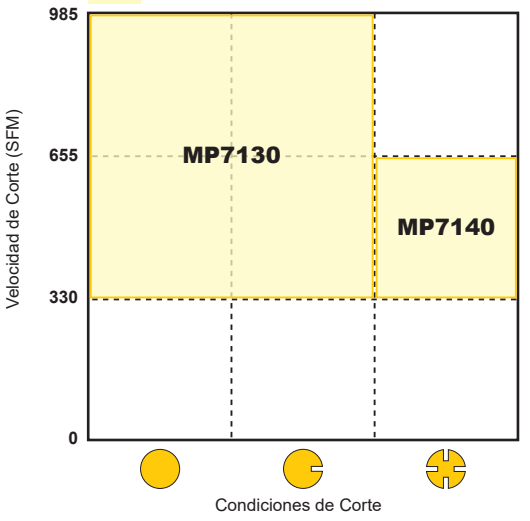
RANGO DE APLICACION PARA FRESADO

● Recomendación del grado principal de inserto basado en la velocidad de corte y condiciones de corte para cada material.

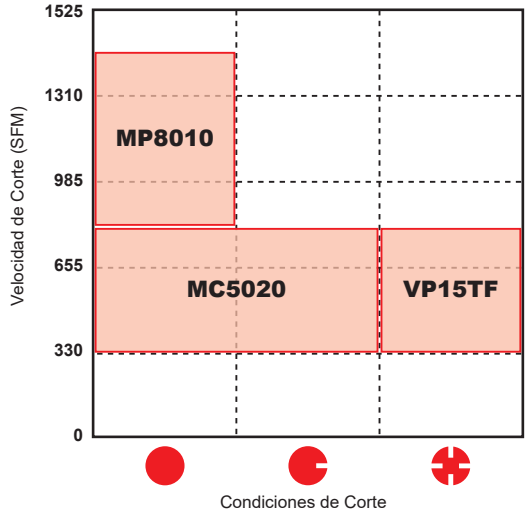
P ACERO (Medio - Desbaste)



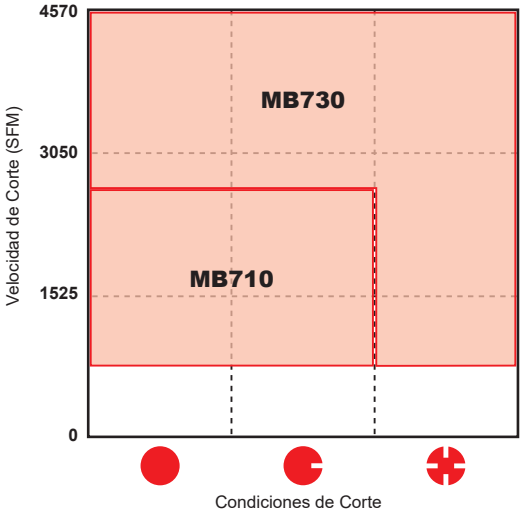
M ACERO INOXIDABLE



K FUNDICION



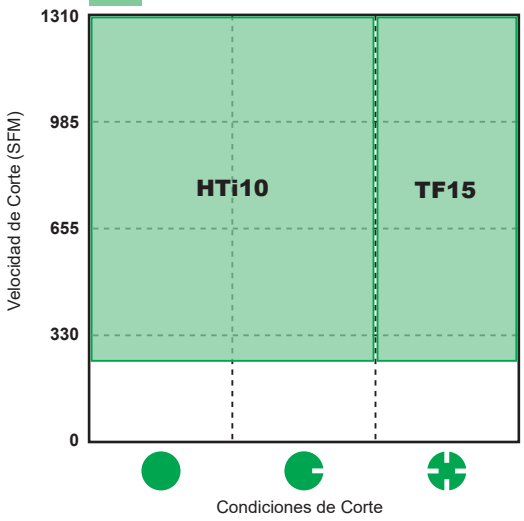
K FUNDICION (CBN)



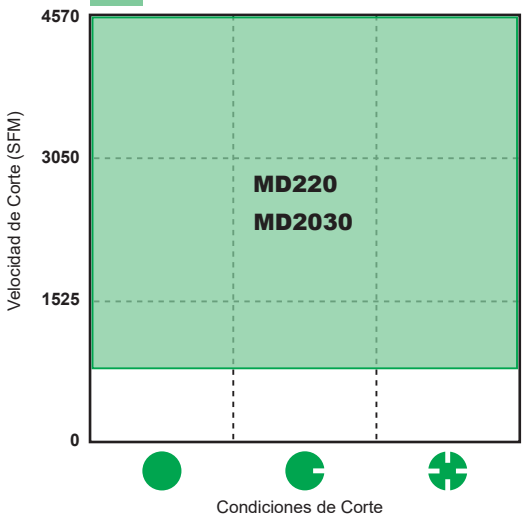
■CONDICIONES DE CORTE

●	Corte Estable	Corte continuo Profundidad constante Premaquinado Sistema de sujeción seguro
◕	Corte General	
✚	Corte Inestable	Corte pesado e interrumpido Profundidad de corte variable sujeción de baja rigidez

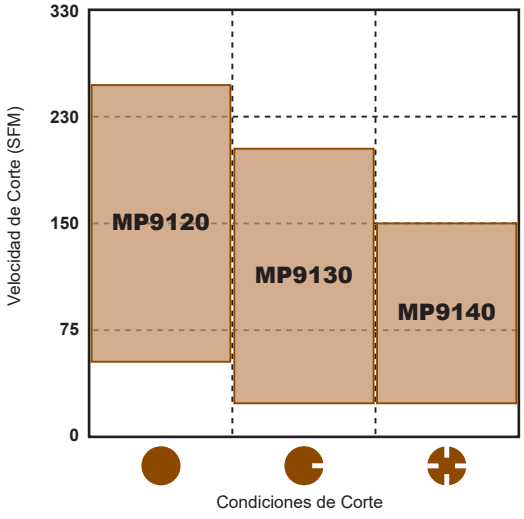
N METALES NO FERROSOS



N METALES NO FERROSOS (PCD)



S MATERIALES TERMORESISTENTES, ALEACIONES DE TITANIO



CARBURO RECUBIERTO (CVD y PVD)

<CVD>
- Estructura especial fibrosa que aumenta la resistencia al desgaste y a la rotura.
- Cubre un rango de aplicación amplio y reduce el número de herramientas requeridas.

<PVD>
- El recubrimiento PVD prolonga la vida útil comparado con el carburo cementado bajo las mismas condiciones de corte.
- El recubrimiento PVD es conveniente para herramientas con filo vivo y es posible sin necesidad de cambiar la calidad o dureza del sustrato.

■SELECCION ESTANDAR

FRESADO

	Material	Grado Recomendado	Recomendación Velocidad de Corte (SFM)	ISO	Rango de Aplicación
P	Acero	**F7030**	655 (490 – 820)	P	MC7020, FH7020, F7030, MP6120, VP15TF, MP6130, UP20M, VP20RT, VP30RT
		MC7020	655 (490 – 820)		
		MP6120	490 (330 – 655)		
		MP6130	490 (330 – 655)		
		VP15TF	490 (330 – 655)		
M	Acero Inoxidable	**F7030**	655 (490 – 820)	M	MC7020, F7030, VP15TF, MP7130, MP7030, UP20M, VP20RT, MP7140, VP30RT
		MC7020	720 (560 – 885)		
		MP7030	490 (330 – 655)		
		MP7130	490 (330 – 655)		
		MP7140	490 (330 – 655)		
		VP15TF	490 (330 – 655)		
K	Fundición	**MC5020**	590 (330 – 820)	K	MC5020, MP8010, VP15TF, VP20RT
		VP15TF	490 (330 – 655)		
N	Aluminio Aleado	**LC15TF**	3280 (655 – 9840)	N	LC15TF
S	Aleaciones Termoresistentes / Aleaciones de Titanio	**MP9120**	100 (65 – 130)	S	MP9120, VP15TF, MP9130, NEW MP9140, MP9030
		VP15TF	100 (65 – 130)		
		MP9130	80 (65 – 115)		
		NEW **MP9140**	65 (50 – 100)		
H	Acero Endurecido	**MP8010**	260 (165 – 395)	H	MP8010, VP15TF
		VP15TF	260 (165 – 395)		

■CARACTERISTICAS DE LOS GRADOS

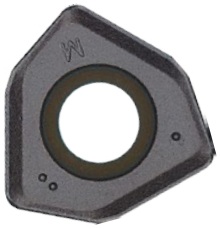
Grado	Sustrato	Capa de Recubrimiento	
	Dureza (HRA)	Composición	Espesor
MC5020	91.0	TiCN-Al_2O_3-Ti Avance	Grueso
MC7020	88.8	TiCN-Al_2O_3 Avance	Grueso
FH7020	88.8	TiCN-Al_2O_3-Ti Avance	Grueso
F7030	88.8	TiCN-Al_2O_3-TiN	Delgado
MP6120	91.5	(Al,Ti,Cr)N	Delgado
MP6130	90.5	(Al,Ti,Cr)N	Delgado
MP7030	90.5	(Al,Ti)N-Ti Avance	Delgado
MP7130	90.5	(Al,Ti)N-Ti Avance	Delgado
MP7140	88.8	(Al,Ti)N-Ti Avance	Delgado

Grado	Sustrato	Capa de Recubrimiento	
	Dureza (HRA)	Composición	Espesor
MP8010	93.5	(Al,Ti,Si)N	Delgado
MP9120	91.5	(Al,Ti,Cr)N	Delgado
MP9130	90.5	(Al,Ti,Cr)N	Delgado
NEW **MP9140**	89.0	Al-(Al,Ti)N	Delgado
VP15TF	91.5	(Al,Ti)N	Delgado
VP20RT	90.5	(Al,Ti)N	Delgado
VP30RT	88.8	(Al,Ti)N	Delgado
UP20M	90.5	Ti Avance	Delgado

Nota 1) La dureza interna representa los valores típicos que se muestran como dureza.

Para maquinado de Acero y Acero Inoxidable

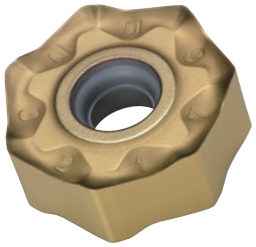
MC7020



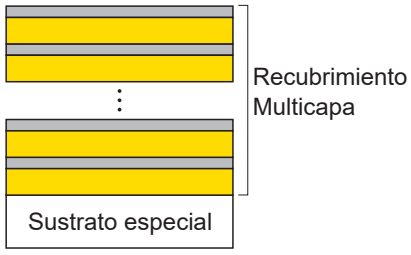
Las capas de micro grano resistentes al desgaste de Al_2O_3 y TiCN fibroso proporcionan una excelente resistencia al desgaste a altas velocidades de corte. El uso de un carburo cementado especialmente desarrollado que proporciona una resistencia superior a la fractura y grietas térmicas que evita la fractura repentina del filo de corte.

Para maquinado de Acero Inoxidable

MP7030



El grado MP7030 tiene una multi capa del nuevo compuesto de Ti recientemente desarrollado, con una resistencia superior al desgaste y a la fractura en el maquinado de acero inoxidable. Un sustrato especial tenaz de carburo cementado proporciona un excelente rendimiento en el maquinado de materiales difíciles de cortar como acero inoxidable.



Maquinado de aleaciones Termoresistentes y aleaciones de Titanio

MP9130

Un sustrato de carburo cementado súper fino mejorado a aumentado la tenacidad mientras mantiene la dureza. El recubrimiento acumulado de Al-Ti-Cr-N asegura una resistencia óptima al calor y al desgaste. La combinación de estas propiedades da como resultado una excelente resistencia a la fractura y a la soldadura gracias al bajo coeficiente de fricción cuando se maquinan aleaciones de titanio.

NEW

MP9140

La nueva tecnología de recubrimiento Al-(Al, Ti)N proporciona estabilización de la fase de alta dureza y mejora dramáticamente la resistencia al desgaste, craterización y soldadura.

CERMET

- **NX2525 para Fresado a alta velocidad.**
- **MX3030, NX4545 para Fresado General.**

■SELECCION ESTANDAR

FRESADO

Material	Grado Recomendado	Recomendación Velocidad de Corte (SFM)	ISO	Rango de Aplicación
P Acero M	**NX2525**	820 (490 — 1150)	P M	10 20 30 **NX2525** **MX3030** **NX4545**
	MX3030 **NX4545**	490 (390 — 590)		
K Fundición	**NX2525**	655 (490 — 985)	K	10 20 **NX2525** **MX3030**
	MX3030	490 (390 — 590)		

Nota 1) En caso de corte con refrigerante utilice grado VP15TF para maquinar acero y grado MC5020 para fundición.

■CARACTERISTICAS DE LOS GRADOS

Grado	Dureza (HRA)
NX2525	92.2
MX3030	90.0
NX4545	90.0

Nota 1) La dureza interna representa los valores típicos que se muestran como dureza

CARBURO

● **Disponible en UTi20T para acero y fundición y HTi10 para fundición, metales no ferrosos y no metales.**

■SELECCION ESTANDAR

FRESADO

Material		Grado Recomendado	Recomendación Velocidad de Corte (SFM)	ISO	Rango de Aplicación
P	Acero	**UTi20T**	395 (165 — 590)	P	UTi20T
M	Acero Inoxidable	**UTi20T**	395 (165 — 590)	M	UTi20T
K	Fundición	**HTi10**	330 (165 — 490)	K	HTi10
		UTi20T	395 (165 — 590)		UTi20T
N	Metales no ferrosos	**HTi10 TF15**	1310 (985 — 1640)	N	HTi10, TF15

■COMPONENTES Y APLICACION

ISO	Componentes	Características	Material
P M	WC-TiC-TaC-Co	Resistencia a la térmica / deformación	Acero al carbón, Acero aleado, Acero inoxidable y Fundición
K N	WC-Co	Alta rigidez y resistencia al desgaste.	Fundición, Metales no ferrosos y No-metálicos

■CARACTERISTICAS DE LOS GRADOS

ISO	Grado	Dureza (HRA)
P M	**UTi20T**	90.5
K N	**HTi05T**	92.5
	HTi10	92.0
N	**TF15**	91.5

Nota 1) La dureza interna representa los valores típicos que se muestran como dureza

CBN (CBN SINTERIZADO)

- Grados MB710 y MB730 para maquinado de fundición.
- Grado BC5030 disponible para maquinado de alta velocidad en fundición.
- Gracias a la combinación del grado BC5030 y la geometría del inserto para el cortador AOX se pueden utilizar hasta 16 filos por inserto, lo cual permite un maquinado rentable de alta eficiencia.

■SELECCION ESTANDAR / CONDICIONES DE CORTE RECOMENDADAS

ACABADO

Material		Estructura	Velocidad de Corte (SFPM) 820 1640 2460 3280 4100	Avance por Diente (IPT)	Prof. de corte (plgs)	Refrigerante
Fundición Gris	JIS FC250	Ferrítico + Perlítico	MB710 / MB730	—.012	—.020	Seco
	JIS FC300	Perlítico				

DESBASTE

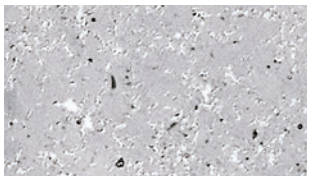
Material		Estructura	Velocidad de Corte (SFM) 820 1640 3280 4920 6560	Avance por Diente (IPT)	Prof. de corte (plgs)	Refrigerante
Fundición Gris	JIS FC250	Perlítico	BC5030	—.006	—.118	Seco

■CARACTERISTICAS Y COMPONENTES

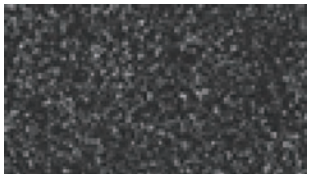
Grado	Aplicación	Características	Componentes	Recubrimiento
MB710	Para Corte General	Grado de uso general con un excelente balance de resistencia al desgaste y a la fractura.	CBN TiC Al_2O_3	—
MB730	Para Corte a Alta Velocidad Para corte Interrumpido	MB730 tiene un alto contenido de CBN por eso es un buen conductor térmico. Es adecuado para altas temperaturas generadas por alta velocidad.	CBN (Alta contenido) Aleación a Base Cobalto	—
BC5030	Maquinado a alta velocidad en grandes profundidades de corte Maquinado interrumpido a alta velocidad en grandes profundidades de corte	El alto contenido de CBN y un alta conductividad térmica. Todo el inserto está compuesto de CBN sinterizado, esto permite altas velocidades, alta eficiencia en el maquinado de grandes profundidades de corte. Grado recubierto para fácil identificación de los filos usados.	CBN AlN	TiN

PCD (DIAMANTE SINTERIZADO)

- **Corte adecuado para Aluminio y Metales no Ferrosos.**
- **Adecuado para acabado con súper alta velocidad.**



Micro-estructura del **grado MD220**



Micro-estructura del **grado MD2030**

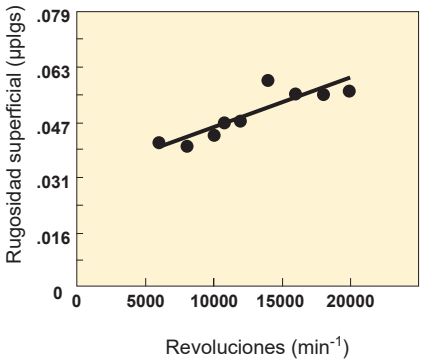
■CARACTERISTICAS DE LOS GRADOS

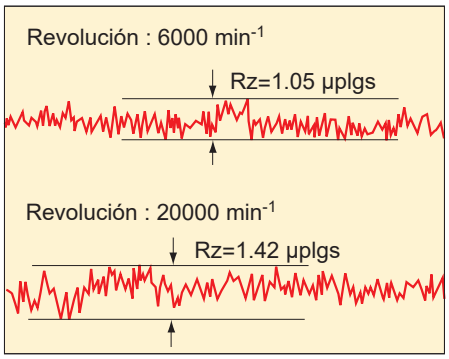
Grado	Características
MD220	Excelente balance entre resistencia al desgaste y resistencia a la fractura. Rango de aplicación amplio.
MD2030	Mejor resistencia a la fractura cuando se utiliza en aplicaciones inestables. La estabilidad del filo de corte permite maquinar en una amplia variedad de materiales y condiciones de trabajo.

■CONDICIONES DE CORTE RECOMENDADAS

Material	Velocidad de Corte (SFM)	Grado	Avance por Diente (IPT)	Prof. de corte (plgs)
Aluminio Aleado (Si ≤12%)	3280—19685	**MD220** **MD2030**	—.012	—.020
Aluminio Aleado (Si ≥13%)	655—2625			

■RENDIMIENTO DE CORTE





<Condiciones de Corte>
Material : Aluminio Aleado
Inserto : NP-GDCW1240PDFR2
Grado : MD220
Herramienta : V10000R0406D
Avance por Diente : .008 IPT
Prof. de corte : .020 plgs
Ancho de Corte : 3.150 plgs
Corte Seco

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Descripción	Descripción (ISO)	Geometría	Página
AEMW150304ER	AEMW150304ER	**BAE500**	K030
AEMW150308ER	AEMW150308ER		
AEMW19T304ER	AEMW19T304ER	**BAE600**	K031
AEMW19T308ER	AEMW19T308ER		
AOGT123602PEFR-GM	AOGT123602PEFR-GM	**APX3000** ➲**L096**	K026
AOGT123604PEFR-GM	AOGT123604PEFR-GM		
AOGT123608PEFR-GM	AOGT123608PEFR-GM		
AOMT123604PEER-H	AOMT123604PEER-H		K026
AOMT123608PEER-H	AOMT123608PEER-H		
AOMT123616PEER-H	AOMT123616PEER-H		
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AOMT123610PEER-M	AOMT123610PEER-M		
AOMT123612PEER-M	AOMT123612PEER-M		
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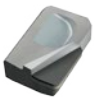
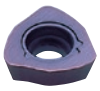
AOMT123620PEER-M	AOMT123620PEER-M		
AOMT123624PEER-M	AOMT123624PEER-M		
AOMT123630PEER-M	AOMT123630PEER-M		
AOMT123632PEER-M	AOMT123632PEER-M		
AOMT184804PEER-H	AOMT184804PEER-H	**APX4000** ➲**L110**	K026
AOMT184808PEER-H	AOMT184808PEER-H		
AOMT184816PEER-H	AOMT184816PEER-H		
AOMT184832PEER-H	AOMT184832PEER-H		
AOMT184840PEER-H	AOMT184840PEER-H		
AOMT184850PEER-H	AOMT184850PEER-H		
AOMT184864PEER-H	AOMT184864PEER-H		
AOMT184804PEER-M	AOMT184804PEER-M		K026
AOMT184808PEER-M	AOMT184808PEER-M		
AOMT184810PEER-M	AOMT184810PEER-M		
AOMT184812PEER-M	AOMT184812PEER-M		
AOMT184816PEER-M	AOMT184816PEER-M		
AOMT184820PEER-M	AOMT184820PEER-M		
APGT1135PDFR-G2	APGT1135PDFR-G2	**BAP300**	K031
			
APMT1135PDER-H1	APMT1135PDER-H1		K031
APMT1135PDER-H2	APMT1135PDER-H2		
APMT1135PDER-H6	APMT1135PDER-H6		

Descripción	Descripción (ISO)	Geometría	Página
APMT1135PDER-M0	APMT1135PDER-M0	**BAP300**	K031
APMT1135PDER-M1	APMT1135PDER-M1		
APMT1135PDER-M2	APMT1135PDER-M2		
APGT1604PDFR-G2	APGT1604PDFR-G2	**BAP400**	K031
			
APMT1604PDER-H1	APMT1604PDER-H1		K031
APMT1604PDER-H2	APMT1604PDER-H2		
APMT1604PDER-H4	APMT1604PDER-H4		
APMT1604PDER-H6	APMT1604PDER-H6		
APMT1604PDER-H8	APMT1604PDER-H8		
APMT1604PDER-M2	APMT1604PDER-M2		K031
CCMX083508ENA	CCMX083508EN-A	**LER** ➲**L194**	K035
CCMX09T308ENA	CCMX09T308EN-A		
CCMX09T308ENB	CCMX09T308EN-B		K035
CPMT1205ZPEN-M2	CPMT1205ZPEN-M2	**PMR** ➲**L291**	K036
CPMT1205ZPEN-M3	CPMT1205ZPEN-M3		
GOER1404PXFR2	GOER1404PXFR2	**FMAX** ➲**L070**	K051
GOER1408PXFR2	GOER1408PXFR2		
NEW **GOER1408PXFR2-8**	GOER1408PXFR2-8		K051
NEW **GOER1401ZXFR2**	GOER1401ZXFR2		K051

Descripción	Descripción (ISO)	Geometría	Página
HNMX1206EN06-R	HNMX1206EN06-R	**BMR** **L292** 	K032
HNMX1206ER12-R	HNMX1206ER12-R		K032
JOMW06T215ZZSR-FT	JOMW06T215ZZSR-FT	**AJX** **L206**	K025
JOMW080320ZZSR-FT	JOMW080320ZZSR-FT		
JDMW09T320ZDSR-FT	JDMW09T320ZDSR-FT		
JDMW120420ZDSR-FT	JDMW120420ZDSR-FT		
JDMW140520ZDSR-FT	JDMW140520ZDSR-FT		
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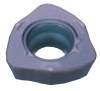
JOMT080322ZZER-JL	JOMT080322ZZER-JL		
JDMT09T323ZDER-JL	JDMT09T323ZDER-JL		
JDMT120423ZDER-JL	JDMT120423ZDER-JL		
JDMT140523ZDER-JL	JDMT140523ZDER-JL		
JOMT06T215ZZSR-JM	JOMT06T215ZZSR-JM		K025
JOMT080320ZZSR-JM	JOMT080320ZZSR-JM		
JDMT09T320ZDSR-JM	JDMT09T320ZDSR-JM		
JDMT120420ZDSR-JM	JDMT120420ZDSR-JM		
JDMT140520ZDSR-JM	JDMT140520ZDSR-JM		
JDMT120420ZDSR-ST	JDMT120420ZDSR-ST		K025
JDMT140520ZDSR-ST	JDMT140520ZDSR-ST		
JOMU140715ZZER-L	JOMU140715ZZER-L	**WJX** **L224** NEW	K047
JOMU140715ZZER-M	JOMU140715ZZER-M		
JOMU140715ZZER-R	JOMU140715ZZER-R		
JPMT060204-E	JPMT060204-E		K049
JPMX140412-JM	JPMX140412-JM	**SPX** **L180**	K039
JPMX190412-JM	JPMX190412-JM		
JPMX140412-WH	JPMX140412-WH		K039
JPMX190412-WH	JPMX190412-WH		

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LNGU130804PNER-M	LNGU130804PNER-M	**VAS400** Cortador Lateral **L088**	K043
LNGU130804PNEL-M	LNGU130804PNEL-M		
LNGU130808PNER-M	LNGU130808PNER-M		
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LNGU130812PNER-M	LNGU130812PNER-M		
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NEW **LNGU130804PNER-R**	LNGU130804PNER-R		
NEW **LNGU130804PNEL-R**	LNGU130804PNEL-R		
NEW **LNGU130808PNER-R**	LNGU130808PNER-R		
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NEW **LNGU130850PNEL-R**	LNGU130850PNEL-R		

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LNGU171004PNER-R	LNGU171004PNER-R	**VAS500** Cortador Lateral **L092** 	K044
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LNGU171008PNER-R	LNGU171008PNER-R		
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LNGU171020PNER-R	LNGU171020PNER-R		
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LNGU171024PNER-R	LNGU171024PNER-R		
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LNGU171070PNER-R	LNGU171070PNER-R		
LNGU171070PNEL-R	LNGU171070PNEL-R		
LOGU0904020PNER-L	LOGU0904020PNER-L	**VPX200** **L124** NEW 	K046
LOGU0904040PNER-L	LOGU0904040PNER-L		
LOGU0904080PNER-L	LOGU0904080PNER-L		
LOGU0904100PNER-L	LOGU0904100PNER-L		
LOGU0904120PNER-L	LOGU0904120PNER-L		
LOGU0904160PNER-L	LOGU0904160PNER-L		
LOGU0904020PNFR-L	LOGU0904020PNFR-L		
LOGU0904040PNFR-L	LOGU0904040PNFR-L		
LOGU0904080PNFR-L	LOGU0904080PNFR-L		
LOGU0904100PNFR-L	LOGU0904100PNFR-L		
LOGU0904120PNFR-L	LOGU0904120PNFR-L		
LOGU0904160PNFR-L	LOGU0904160PNFR-L		

Descripción	Descripción (ISO)	Geometría	Página
LOGU0904020PNER-M	LOGU0904020PNER-M	**VPX200** **L124** NEW 	K046
LOGU0904040PNER-M	LOGU0904040PNER-M		
LOGU0904080PNER-M	LOGU0904080PNER-M		
LOGU0904100PNER-M	LOGU0904100PNER-M		
LOGU0904120PNER-M	LOGU0904120PNER-M		
LOGU0904160PNER-M	LOGU0904160PNER-M		
LOGU0904020PNFR-M	LOGU0904020PNFR-M		
LOGU0904040PNFR-M	LOGU0904040PNFR-M		
LOGU0904080PNFR-M	LOGU0904080PNFR-M		
LOGU0904100PNFR-M	LOGU0904100PNFR-M		
LOGU0904120PNFR-M	LOGU0904120PNFR-M		
LOGU0904160PNFR-M	LOGU0904160PNFR-M		
LOGU1207020PNER-M	LOGU1207020PNER-M	**VPX300** **L140** NEW 	K047
LOGU1207040PNER-M	LOGU1207040PNER-M		
LOGU1207080PNER-M	LOGU1207080PNER-M		
LOGU1207100PNER-M	LOGU1207100PNER-M		
LOGU1207120PNER-M	LOGU1207120PNER-M		
LOGU1207160PNER-M	LOGU1207160PNER-M		
LOGU1207200PNER-M	LOGU1207200PNER-M		
LOGU1207240PNER-M	LOGU1207240PNER-M		
LOGU1207300PNER-M	LOGU1207300PNER-M		
LOGU1207320PNER-M	LOGU1207320PNER-M		
LOGU1207020PNFR-M	LOGU1207020PNFR-M		
LOGU1207040PNFR-M	LOGU1207040PNFR-M		
LOGU1207080PNFR-M	LOGU1207080PNFR-M		
LOGU1207100PNFR-M	LOGU1207100PNFR-M		
LOGU1207120PNFR-M	LOGU1207120PNFR-M		
LOGU1207160PNFR-M	LOGU1207160PNFR-M		
LOGU1207200PNFR-M	LOGU1207200PNFR-M		
LOGU1207240PNFR-M	LOGU1207240PNFR-M		
LOGU1207300PNFR-M	LOGU1207300PNFR-M		
LOGU1207320PNFR-M	LOGU1207320PNFR-M		

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MPMX120412-JM	MPMX120412-JM	**SPX** ➔**L180** 	K039
MPMX120412-WH	MPMX120412-WH		K039
NNMU130508ZER-L	NNMU130508ZER-L	**AHX440S** ➔**L038** 	K024
NNMU130508ZEN-M	NNMU130508ZEN-M		
NNMU130532ZEN-M	NNMU130532ZEN-M		
NNMU130532ZEN-R	NNMU130532ZEN-R		
NNMU200608ZEN-HK	NNMU200608ZEN-HK	**AHX640S** ➔**L048** **AHX640W** ➔**L060** 	K024
NNMU200608ZEN-MK	NNMU200608ZEN-MK		K024
NNMU200708ZEN-M	NNMU200708ZEN-M	**AHX640S** ➔**L048** 	K024
NNMU200708ZEN-MP	NNMU200708ZEN-MP		K024
NNMU200712ZER-L	NNMU200712ZER-L		K025
NNMU200712ZER-MM	NNMU200712ZER-MM		K024
NP-GDCN2004PDSR3	NP-GDCN2004PDSR3	**NF10000** 	K051
NP-WEEW13T3AGFR3C	NP-WEEW13T3AGFR3C	**ASX445** ➔**L030** 	K052
NP-WEEW13T3AGTR3C	NP-WEEW13T3AGTR3C		
NP-WFC42ZFER2	NP-WFC42ZFER2	**BF407** 	K052
NP-WFC42ZFER6	NP-WFC42ZFER6		

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OEMX12T3ETR1	OEMX12T3ETR1	**BOE** ➔**L256** 	K032
OEMX12T3ESR1	OEMX12T3ESR1		
OEMX1705ETR1	OEMX1705ETR1		
OEMX1705ESR1	OEMX1705ESR1		
OEMX12T3EER1-JS	OEMX12T3EER1-JS		K033
OEMX12T3ETR1-JS	OEMX12T3ETR1-JS		
OEMX1705EER1-JS	OEMX1705EER1-JS		
OEMX1705ETR1-JS	OEMX1705ETR1-JS		
OEMX12T3ETR1	OEMX12T3ETR1		K050
OEMX12T3ETR5	OEMX12T3ETR5		
QOGT0830R-G1	QOGT0830R-G1	**AQX** ➔**L196** 	K027
QOGT0934R-G1	QOGT0934R-G1		
QOGT1443R-G1	QOGT1443R-G1		
QOGT1651R-G1	QOGT1651R-G1		
QOGT1959R-G1	QOGT1959R-G1		
QOMT0830R-M2	QOMT0830R-M2		K027
QOMT0934R-M2	QOMT0934R-M2		
QOMT1443R-M2	QOMT1443R-M2		
QOMT1651R-M2	QOMT1651R-M2		
QOMT1959R-M2	QOMT1959R-M2		
QOGT0830R-G1	QOGT0830R-G1	**AQX(METRICO)** ➔**L196** 	K027
QOGT1035R-G1	QOGT1035R-G1		
QOGT1342R-G1	QOGT1342R-G1		
QOGT1651R-G1	QOGT1651R-G1		
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QOGT2062R-G1	QOGT2062R-G1		
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QOMT0830R-M2	QOMT0830R-M2		K027
QOMT1035R-M2	QOMT1035R-M2		
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QOMT1651R-M2	QOMT1651R-M2		
QOMT1856R-M2	QOMT1856R-M2		
QOMT2062R-M2	QOMT2062R-M2		
QOMT2576R-M2	QOMT2576R-M2		
RPHT1040M0E4-L	RPHT1040M0E4-L	**ARP** ➔**L236** 	K027
RPHT1040M0E4-M	RPHT1040M0E4-M		
RPHT1040M0E4-R	RPHT1040M0E4-R		
RPHT1248M0E4-L	RPHT1248M0E4-L		
RPHT1248M0E4-M	RPHT1248M0E4-M		
RPHT1248M0E4-R	RPHT1248M0E4-R		
RPMT1040M0E4-L	RPMT1040M0E4-L		
RPMT1040M0E4-M	RPMT1040M0E4-M		
RPMT1040M0E4-R	RPMT1040M0E4-R		
RPMT1248M0E4-L	RPMT1248M0E4-L		
RPMT1248M0E4-M	RPMT1248M0E4-M		
RPMT1248M0E4-R	RPMT1248M0E4-R		

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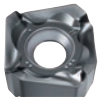
RDMW0517M0E	RDMW0517M0E	**ARX(METRICO)** ➲**L248** 	K027
RDMW0620M0E	RDMW0620M0E		
RDMW0724M0E	RDMW0724M0E		
REMX1705EN	REMX1705EN	**BOE** ➲**L256** 	K033
REMX1705SN	REMX1705SN		
REMX12T3EN-JS	REMX12T3EN-JS		K033
REMX1705EN-JS	REMX1705EN-JS		
RGEN2004EN	RGEN2004M0EN	**SG20** 	K038
RGEN2004SN	RGEN2004M0SN		
RPMT07T200E-JS	RPMT07T200E-JS	**BRP** ➲**L252** 	K033
RPMT09T300E-JS	RPMT09T300E-JS		
RPMT120400E-JS	RPMT120400E-JS		
RPMT150600E-JS	RPMT150600E-JS		
RPMW120400E	RPMW120400E		K033
RPMW150600E	RPMW150600E		
SDEN42AEN	SDEN1203AEN	Angulo de ataque 45° Positivos de 15° 	K048
SDKN42AEN	SDKN1203AEN		
SDKN42AETN	SDKN1203AETN		
SDKN53AETN	SDKN1504AETN		
SEEN42EFFR1	SEEN1203EFFR1	**SE415** 	K037
SEEN42EFER1	SEEN1203EFER1		
SEEN42EFTR1	SEEN1203EFTR1		
SEEN42EFSR1	SEEN1203EFSR1		
SEKN42EFSR1	SEKN1203EFSR1		K037
SEKN42EFTR1	SEKN1203EFTR1		
SEKN42EFTR	SEKN1203EFTR		
SEER42EFER-JS	SEER1203EFER-JS		K037

Descripción	Descripción (ISO)	Geometría	Página
SECN42AFTN1	SECN1203AFTN1	**SE445** 	K037
SEEN42AFFN1	SEEN1203AFFN1		
SEEN42AFEN1	SEEN1203AFEN1		
SEEN42AFTN1	SEEN1203AFTN1		
SEEN42AFSN1	SEEN1203AFSN1		
SEEN42AFXN1	SEEN1203AFXN1		
SEKN42AFSN1	SEKN1203AFSN1		
SEKN42AFTN1	SEKN1203AFTN1		
SEKN42AFTN	SEKN1203AFTN		
SEER42AFEN-JS	SEER1203AFEN-JS		K037
SEER42AFXN-JS	SEER1203AFXN-JS		
SECN42AFFR1	SECN1203AFFR1		K052
SEEN53EFER1	SEEN1504EFER1	**SE515** 	K038
SEEN53AFEN1	SEEN1504AFEN1	**SE545** 	K038
SEEN53AFTN1	SEEN1504AFTN1		
SEEN53AFSN1	SEEN1504AFSN1		
SEKN53AFSN1	SEKN1504AFSN1		
SEKN53AFTN1	SEKN1504AFTN1		
SEER53AFEN-JS	SEER1504AFEN-JS		K038
SEET13T3AGEN-JL	SEET13T3AGEN-JL	**ASX445** ➲**L030** 	K028
SEMT13T3AGSN-JM	SEMT13T3AGSN-JM		K029
SEMT13T3AGSN-JH	SEMT13T3AGSN-JH		K029
SEMT13T3AGSN-FT	SEMT13T3AGSN-FT		K029
SEGT13T3AGFN-JP	SEGT13T3AGFN-JP		K029

Descripción	Descripción (ISO)	Geometría	Página
SEER43AFEN-JS	SEER1204AFEN-JS	Angulo de ataque 45° Positivos de 20° 	K048
SEKN42AGTN	SEKN1203AGTN	Angulo de ataque 45° Positivos de 20° 	K048
SFAN42ZFFR2	SFAN1203ZFFR2	**BF407** 	K032
SFAN42ZFFL2	SFAN1203ZFFL2		
SFCN42ZFFR2	SFCN1203ZFFR2		
SFCN42ZFFR2	SFCN1203ZFFR2		K050
SL-ONEN120404ASN	SL-ONEN120404ASN	**AOX445** ➔**L069** 	K050
SNMN432	SNMN120408	**Negativos** 	K049
SNMN433	SNMN120412		
SNMU140812ANER-M	SNMU140812ANER-M	**WSX445** ➔**L018**	K047
SNMU140812ANEL-M	SNMU140812ANEL-M		
SNMU140812ANER-R	SNMU140812ANER-R		
SNMU140812ANEL-R	SNMU140812ANEL-R		
SNMU140812ANER-H	SNMU140812ANER-H		
SNGU140812ANER-L	SNGU140812ANER-L		
NEW **SNGU140812ANEL-L**	SNGU140812ANEL-L		
SNGU140812ANER-M	SNGU140812ANER-M		
SNGU140812ANEL-M	SNGU140812ANEL-M		
SNGU140812ANFR-L	SNGU140812ANFR-L		
NEW **SNGU140812ANFL-L**	SNGU140812ANFL-L		
WNGU1406ANEN8C-M	WNGU1406ANEN8C-M		K048
SOET12T308PEER-JL	SOET12T308PEER-JL	**ASX400** ➔**L082** 	K028
SOMT12T308PEER-JM	SOMT12T308PEER-JM	**ASX400** ➔**L082** Cortador Lateral ASX ➔**L095** 	K028
SOMT12T308PEEL-JM	SOMT12T308PEEL-JM		

Descripción	Descripción (ISO)	Geometría	Página
SOMT12T308PEER-JH	SOMT12T308PEER-JH	**ASX400** ➔**L082** 	K028
SOMT12T320PEER-FT	SOMT12T320PEER-FT		K028
SOGT12T308PEFR-JP	SOGT12T308PEFR-JP		K028
SONX1206PER	SONX1206PER	**VOX400** ➔**L076** Cortador Lateral VOS ➔**L094** 	K046
SONX1206PEL	SONX1206PEL		
SPEN42EEER1	SPEN1203EEER1	**FBP415** 	K034
SPEN42EEEL1	SPEN1203EEEL1		
SPNN42EEER1	SPNN1203EEER1		K035
SPNN42EEEL1	SPNN1203EEEL1		
SPER42EEER-JS	SPER1203EEER-JS		K035
SPEN42EETR1	SPEN1203EETR1		K050
SPKN42EDR	SPKN1203EDR	Angulo de ataque 15° Positivos de 11° 	K048
SPKN53EDR	SPKN1504EDR		
SPMB1204APT	SPMB1204APT	**BSP** 	K033
SPMM432A	SPMT120408-A	**TBE1** 	K042
SPMN421	SPMN120304	**Positivos de 11°** 	K049
SPMN421T	SPMN120304T		
SPMN422	SPMN120308		
SPMN423	SPMN120312		
SPMN432	SPMN120408		
SPMN433	SPMN120412		
SPMN532	SPMN150408		

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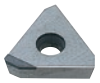
Descripción	Descripción (ISO)	Geometría	Página
SPMW321	SPMW090304	**CFSP** ➔**L260** 	K034
SPMW322	SPMW090308		
SPMW421	SPMW120304		
SPMW422	SPMW120308		
SPMX120408-JM	SPMX120408-JM	**SPX** ➔**L180** 	K039
SPMX120408-WH	SPMX120408-WH		K039
SRFT0375	SRFT0375	**SRF** ➔**L262** 	K040
SRFT0500	SRFT0500		
SRFT0625	SRFT0625		
SRFT0750	SRFT0750		
SRFT1000	SRFT1000		
SRFT1250	SRFT1250		
SRFT10	SRFT10	**SRF(METRICO)** ➔**L262** 	K040
SRFT12	SRFT12		
SRFT16	SRFT16		
SRFT20	SRFT20		
SRFT25	SRFT25		
SRFT30	SRFT30		
SRFT32	SRFT32		
SRG40C	SRG40C	**SRM2 40/50** ➔**L286** 	K042
SRG50C	SRG50C		
SRG40E	SRG40E		K042
SRG50E	SRG50E		
SRG16C	SRG16C	**SRM2(METRICO)** ➔**L274** 	K041
SRG20C	SRG20C		
SRG25C	SRG25C		
SRG30C	SRG30C		
SRG32C	SRG32C		
SRG16E	SRG16E		K041
SRG20E	SRG20E		
SRG25E	SRG25E		
SRG30E	SRG30E		
SRG32E	SRG32E		

Descripción	Descripción (ISO)	Geometría	Página
SRM212C	SRM212C	**SRM2** ➔**L274** 	K041
SRM216C	SRM216C		
SRM220C	SRM220C		
SRM212E	SRM212E		K041
SRM216E	SRM216E		
SRM220E	SRM220E		
SRM210C-M	SRM210C-M		K041
SRM212C-M	SRM212C-M		
SRM216C-M	SRM216C-M		
SRM220C-M	SRM220C-M		
SRM210E-M	SRM210E-M		K041
SRM212E-M	SRM212E-M		
SRM216E-M	SRM216E-M		
SRM220E-M	SRM220E-M		
SRM16C-M	SRM16C-M	**SRM2(METRICO)** ➔**L274** 	K041
SRM20C-M	SRM20C-M		
SRM25C-M	SRM25C-M		
SRM30C-M	SRM30C-M		
SRM32C-M	SRM32C-M		
SRM16E-M	SRM16E-M		K042
SRM20E-M	SRM20E-M		
SRM25E-M	SRM25E-M		
SRM30E-M	SRM30E-M		
SRM32E-M	SRM32E-M		

Descripción	Descripción (ISO)	Geometría	Página
SUFT10R05	SUFT10R05	**SUF(METRICO)** ➔**L262**	
SUFT10R10	SUFT10R10		
SUFT10R20	SUFT10R20		
SUFT12R05	SUFT12R05		
SUFT12R10	SUFT12R10		
SUFT12R20	SUFT12R20		
SUFT12R30	SUFT12R30		
SUFT16R05	SUFT16R05		
SUFT16R10	SUFT16R10		
SUFT16R15	SUFT16R15		
SUFT16R20	SUFT16R20		
SUFT16R30	SUFT16R30		
SUFT20R05	SUFT20R05		
SUFT20R10	SUFT20R10		K040
SUFT20R15	SUFT20R15		
SUFT20R20	SUFT20R20		
SUFT20R30	SUFT20R30		
SUFT25R05	SUFT25R05		
SUFT25R10	SUFT25R10		
SUFT25R20	SUFT25R20		
SUFT25R30	SUFT25R30		
SUFT30R05	SUFT30R05		
SUFT30R10	SUFT30R10		
SUFT30R20	SUFT30R20		
SUFT30R30	SUFT30R30		
SUFT32R05	SUFT32R05		
SUFT32R10	SUFT32R10		
SUFT32R20	SUFT32R20		
TECN32PEFR1W	TECN1603PEFR1W	**NSE300**	
TECN32PEER1W	TECN1603PEER1W		K036
TECN32PETR1W	TECN1603PETR1W		
TEEN32PEFR1	TEEN1603PEFR1		K036
TEEN32PEER1	TEEN1603PEER1		
TEEN32PETR1	TEEN1603PETR1		
TEEN32PESR1	TEEN1603PESR1		
TEER32PEER-JS	TEER1603PEER-JS		K036
TECN43PEFR1	TECN2204PEFR1	**NSE400** **SE400**	
TECN43PEER1	TECN2204PEER1		
TECN43PETR1	TECN2204PETR1		
TEEN43PEFR1	TEEN2204PEFR1		
TEEN43PEER1	TEEN2204PEER1		
TEEN43PETR1	TEEN2204PETR1		K036
TEEN43PESR1	TEEN2204PESR1		
TEKN43PEER1	TEKN2204PEER1		
TEKN43PESR1	TEKN2204PESR1		
TEKN43PETR1	TEKN2204PETR1		
TEKN43PETR	TEKN2204PETR		

Descripción	Descripción (ISO)	Geometría	Página
TEER43PEER-JS	TEER2204PEER-JS	**NSE400** **SE400** 	K036
TPEW1303ZPER2	TPEW1303ZPER2	**PMF** ➔**L290** 	K036
TPEW1303ZPTR2	TPEW1303ZPTR2		K052
TPKN32PPR	TPKN1603PPR	Angulo de ataque 0° Positivos de 11°	
TPKN43PDR	TPKN2204PDR		K048
TPMN321	TPMN160304	**Positivos de 11°**	
TPMN322	TPMN160308		
TPMN323	TPMN160312		K049
TPMN431	TPMN220404		
TPMN432	TPMN220408		
TPMN433	TPMN220412		
WEC42EFER5C	WEC42EFER5C	**SE415**	
WEC42EFTR5C	WEC42EFTR5C		K037
WEC42AFTR5C	WEC42AFTR5C	**SE445** 	K038
WEC42AFFR5C	WEC42AFFR5C		
WEC42AFTR5C	WEC42AFTR5C		K052
WEC53AFER5C	WEC53AFER5C	**SE545**	
WEC53AFTR5C	WEC53AFTR5C		K038
WEEW13T3AGER8C	WEEW13T3AGER8C	**ASX445** ➔**L030**	
WEEW13T3AGTR8C	WEEW13T3AGTR8C		K029
WFC42ZFER2	WFC42ZFER2	**BF407** 	K052

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WNEU1305ZEN4C-M	WNEU1305ZEN4C-M	**AHX440S** ➲**L038** 	K024
WNEU2006ZEN7C-WK	WNEU2006ZEN7C-WK	**AHX640S** ➲**L048** **AHX640W** ➲**L060** 	K025
WNEU2007ZEN7C-M	WNEU2007ZEN7C-M	**AHX640S** ➲**L048** 	K025
WNEU2007ZEN7C-WP	WNEU2007ZEN7C-WP		
WOEW12T308PEER8C	WOEW12T308PEER8C	**ASX400** ➲**L082** 	K028
WOEW12T308PETR8C	WOEW12T308PETR8C		
WOEX1206PER5C	WOEX1206PER5C	**VOX400** ➲**L076** 	K046
WPC42EEER10C	WPC42EEER10C	**FBP415** 	K035
WPC42EEEL10C	WPC42EEEL10C		
WPC42EETR10C	WPC42EETR10C		K052
XDGT1550PDER-G04	XDGT1550PDER-G04	**BXD4000** ➲**L176**	K034
XDGT1550PDER-G08	XDGT1550PDER-G08		
XDGT1550PDER-G12	XDGT1550PDER-G12		
XDGT1550PDER-G16	XDGT1550PDER-G16		
XDGT1550PDER-G20	XDGT1550PDER-G20		
XDGT1550PDER-G30	XDGT1550PDER-G30		
XDGT1550PDER-G32	XDGT1550PDER-G32		
XDGT1550PDER-G40	XDGT1550PDER-G40		
XDGT1550PDER-G50	XDGT1550PDER-G50		
XDGT1550PDFR-G04	XDGT1550PDFR-G04		K034
XDGT1550PDFR-G08	XDGT1550PDFR-G08		
XDGT1550PDFR-G12	XDGT1550PDFR-G12		
XDGT1550PDFR-G16	XDGT1550PDFR-G16		
XDGT1550PDFR-G20	XDGT1550PDFR-G20		
XDGT1550PDFR-G30	XDGT1550PDFR-G30		
XDGT1550PDFR-G32	XDGT1550PDFR-G32		
XDGT1550PDFR-G40	XDGT1550PDFR-G40		
XDGT1550PDFR-G50	XDGT1550PDFR-G50		

Descripción	Descripción (ISO)	Geometría	Página
XDGT1550PDFR-GL04	XDGT1550PDFR-GL04	**BXD4000** ➲**L176** 	K034
XDGT1550PDFR-GL08	XDGT1550PDFR-GL08		
XDGX175004PDFR-GL	XDGX175004PDFR-GL	**AXD4000** ➲**L156**	K029
XDGX175008PDFR-GL	XDGX175008PDFR-GL		
XDGX175012PDFR-GL	XDGX175012PDFR-GL		
XDGX175016PDFR-GL	XDGX175016PDFR-GL		
XDGX175020PDFR-GL	XDGX175020PDFR-GL		
XDGX175024PDFR-GL	XDGX175024PDFR-GL		
XDGX175030PDFR-GL	XDGX175030PDFR-GL		
XDGX175032PDFR-GL	XDGX175032PDFR-GL		
XDGX175040PDFR-GL	XDGX175040PDFR-GL		
XDGX175050PDFR-GL	XDGX175050PDFR-GL		
XDGX175004PDER-GM	XDGX175004PDER-GM		K030
XDGX175008PDER-GM	XDGX175008PDER-GM		
XDGX175012PDER-GM	XDGX175012PDER-GM		
XDGX175016PDER-GM	XDGX175016PDER-GM		
XDGX175020PDER-GM	XDGX175020PDER-GM		
XDGX175024PDER-GM	XDGX175024PDER-GM		
XDGX175030PDER-GM	XDGX175030PDER-GM		
XDGX175032PDER-GM	XDGX175032PDER-GM		
XDGX175040PDER-GM	XDGX175040PDER-GM		
XDGX175050PDER-GM	XDGX175050PDER-GM		
XDGX175004PDFR-GM	XDGX175004PDFR-GM		K030
XDGX175008PDFR-GM	XDGX175008PDFR-GM		
XDGX175012PDFR-GM	XDGX175012PDFR-GM		
XDGX175016PDFR-GM	XDGX175016PDFR-GM		
XDGX175020PDFR-GM	XDGX175020PDFR-GM		
XDGX175024PDFR-GM	XDGX175024PDFR-GM		
XDGX175030PDFR-GM	XDGX175030PDFR-GM		
XDGX175032PDFR-GM	XDGX175032PDFR-GM		
XDGX175040PDFR-GM	XDGX175040PDFR-GM		
XDGX175050PDFR-GM	XDGX175050PDFR-GM		
XDGX227008PDFR-GL	XDGX227008PDFR-GL	**AXD7000** ➲**L166**	K030
XDGX227016PDFR-GL	XDGX227016PDFR-GL		
XDGX227020PDFR-GL	XDGX227020PDFR-GL		
XDGX227024PDFR-GL	XDGX227024PDFR-GL		
XDGX227030PDFR-GL	XDGX227030PDFR-GL		
XDGX227032PDFR-GL	XDGX227032PDFR-GL		
XDGX227040PDFR-GL	XDGX227040PDFR-GL		
XDGX227050PDFR-GL	XDGX227050PDFR-GL		
XDGX227008PDER-GLA	XDGX227008PDER-GLA		
XDGX227016PDER-GLA	XDGX227016PDER-GLA		
XDGX227020PDER-GLA	XDGX227020PDER-GLA		
XDGX227024PDER-GLA	XDGX227024PDER-GLA		
XDGX227030PDER-GLA	XDGX227030PDER-GLA		
XDGX227032PDER-GLA	XDGX227032PDER-GLA		
XDGX227040PDER-GLA	XDGX227040PDER-GLA		
XDGX227050PDER-GLA	XDGX227050PDER-GLA		

Descripción	Descripción (ISO)	Geometría	Página
XNMU160708R-MS	XNMU160708R-MS	**VFX5** ➔**L186** 	K045
XNMU160712R-MS	XNMU160712R-MS		
XNMU160716R-MS	XNMU160716R-MS		
XNMU160724R-MS	XNMU160724R-MS		
XNMU160732R-MS	XNMU160732R-MS		
XNMU160740R-MS	XNMU160740R-MS		
XNMU160708R-HS	XNMU160708R-HS		K045
XNMU160708R-LS	XNMU160708R-LS		K045
XNMU190912R-MS	XNMU190912R-MS	**VFX6** ➔**L190** 	K045
XNMU190916R-MS	XNMU190916R-MS		
XNMU190924R-MS	XNMU190924R-MS		
XNMU190932R-MS	XNMU190932R-MS		
XNMU190940R-MS	XNMU190940R-MS		
XNMU190950R-MS	XNMU190950R-MS		
XNMU190912R-HS	XNMU190912R-HS		K045
XNMU190912R-LS	XNMU190912R-LS		K045
XPGT13T3PDER-G1	XPGT13T3PDER-G1	**BAP3500** 	K032
XPGT13T3PDER-G2	XPGT13T3PDER-G2		
XPGT13T3PDER-G6	XPGT13T3PDER-G6		
XPGT13T3PDER-G75	XPGT13T3PDER-G75		
XPGT13T3PDER-G8	XPGT13T3PDER-G8		
XPGT13T3PDFR-G1	XPGT13T3PDFR-G1		K032
XPGT13T3PDFR-G2	XPGT13T3PDFR-G2		
XPGT13T3PDFR-G6	XPGT13T3PDFR-G6		
XPGT13T3PDFR-G75	XPGT13T3PDFR-G75		
XPGT13T3PDFR-G8	XPGT13T3PDFR-G8		
XPMT13T3PDER-M1	XPMT13T3PDER-M1		K032
XPMT13T3PDER-M2	XPMT13T3PDER-M2		
XPMT13T3PDER-M6	XPMT13T3PDER-M6		
XPMT13T3PDER-M75	XPMT13T3PDER-M75		
XPMT13T3PDER-M8	XPMT13T3PDER-M8		

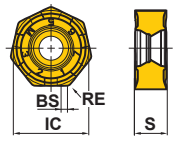
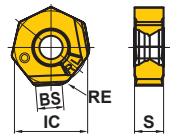
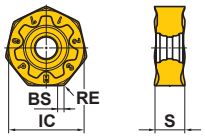
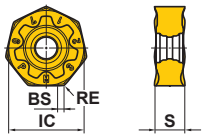
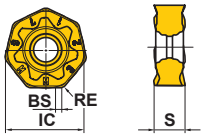
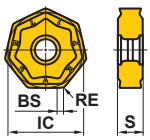
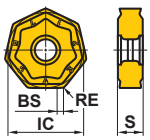
Descripción	Descripción (ISO)	Geometría	Página
ZCMX083508ERA	ZCMX083508ER-A	**LER** ➔**L194** 	K035
ZCMX09T308ERA	ZCMX09T308ER-A		
ZCMX09T308ERB	ZCMX09T308ER-B		K035
TAWC12T301-45GM	TAWC12T301-45GM	**TAW** 	K053

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◔ : Corte General
✣ : Corte Inestable

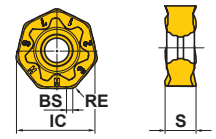
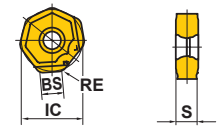
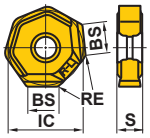
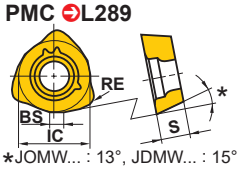
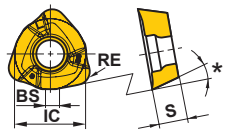
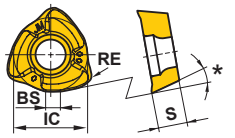
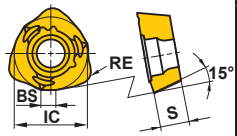
Honeado :
E : Redondo

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto									Dimensiones (plgs)			
					MC5020	MP6120	MP6130	MP7130	MP7140	MP9120	MP9130	VP15TF	VP20RT	MP7030	IC	S	BS	RE
AHX440S ➲L038 **AHX475S ➲L044** 	**NNMU130508ZER-L**	NNMU130508ZER-L	M	E	●	●	●	●	●			★			.528	.227	.039	.031
	NNMU130508ZEN-M	NNMU130508ZEN-M	M	E	●	●	●	●	●			★			.528	.219	.039	.031
	NNMU130532ZEN-M	NNMU130532ZEN-M	M	E	●	●	●	●	●			★			.528	.219	–	.126
	NNMU130532ZEN-R	NNMU130532ZEN-R	M	E	●	●	●	●	●			★			.528	.215	–	.126
AHX440S ➲L038 	**WNEU1305ZEN4C-M**	WNEU1305ZEN4C-M	E	E	●	●						●			.528	.201	.157	.106
AHX640S ➲L048 	**NNMU200708ZEN-M**	NNMU200708ZEN-M	M	E		●	●								.787	.315	.039	.031
AHX640S ➲L048 	**NNMU200708ZEN-MP**	NNMU200708ZEN-MP	M	E								●			.787	.315	.039	.031
AHX640S ➲L048 	**NNMU200712ZER-MM**	NNMU200712ZER-MM	M	E										●	.787	.315	.039	.047
AHX640S ➲L048 **AHX640W ➲L060** 	**NNMU200608ZEN-HK**	NNMU200608ZEN-HK	M	E	●							●	●		.787	.258	.039	.031
AHX640S ➲L048 **AHX640W ➲L060** 	**NNMU200608ZEN-MK**	NNMU200608ZEN-MK	M	E	●							●	●		.787	.258	.039	.031

● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✣ : Corte Inestable
Honeado :
E : Redondo
S : Chaflán+Redondo

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto									Carburo	Dimensiones (plgs)			
					FH7020	MC5020	MP6120	MP6130	MP7130	MP7140	MP9120	MP9130	NEW MP9140	VP15TF	VP20RT	VP30RT	TF15	IC	S	BS	RE
AHX640S ➲L048 	**NNMU200712ZER-L**	NNMU200712ZER-L	M	E							●	●						.787	.315	.039	.047
AHX640S ➲L048 	**WNEU2007ZEN7C-M**	WNEU2007ZEN7C-M	E	E			●											.787	.272	.283	.031
	WNEU2007ZEN7C-WP	WNEU2007ZEN7C-WP	E	E										●				.787	.272	.280	.031
AHX640S ➲L048 **AHX640W ➲L060** 	**WNEU2006ZEN7C-WK**	WNEU2006ZEN7C-WK	E	E		●												.787	.258	.291	.031
AJX ➲L206 **PMC ➲L289**  *JOMW... : 13°, JDMW... : 15°	**JOMW06T215ZZSR-FT**	JOMW06T215ZZSR-FT	M	S	●		●	●	●	●	●	●		●	●			.250	.109	.047	.059
	JOMW080320ZZSR-FT	JOMW080320ZZSR-FT	M	S	●		●	●	●	●	●	●		●	●			.315	.125	.055	.079
	JDMW09T320ZDSR-FT	JDMW09T320ZDSR-FT	M	S	●		●	●	●	●	●	●		●	●			.375	.156	.071	.079
	JDMW120420ZDSR-FT	JDMW120420ZDSR-FT	M	S	●		●	●	●	●	●	●		●	●			.472	.187	.098	.079
	JDMW140520ZDSR-FT	JDMW140520ZDSR-FT	M	S	●		●	●	●	●	●	●		●	●			.551	.219	.110	.079
AJX ➲L206  *JOMT... : 13°, JDMT... : 15°	**JOMT06T216ZZER-JL**	JOMT06T216ZZER-JL	M	E				●	●	●	●	●						.250	.109	.047	.063
	JOMT080322ZZER-JL	JOMT080322ZZER-JL	M	E				●	●	●	●	●						.315	.125	.055	.087
	JDMT09T323ZDER-JL	JDMT09T323ZDER-JL	M	E				●	●	●	●	●						.375	.156	.071	.091
	JDMT120423ZDER-JL	JDMT120423ZDER-JL	M	E				●	●	●	●	●						.472	.187	.098	.091
	JDMT140523ZDER-JL	JDMT140523ZDER-JL	M	E				●	●	●	●	●						.551	.219	.110	.091
AJX ➲L206  *JOMT... : 13°, JDMT... : 15°	**JOMT06T215ZZSR-JM**	JOMT06T215ZZSR-JM	M	S	●		●	●	●	●	●	●		●	●			.250	.109	.047	.059
	JOMT080320ZZSR-JM	JOMT080320ZZSR-JM	M	S	●		●	●	●	●	●	●		●	●			.315	.125	.055	.079
	JDMT09T320ZDSR-JM	JDMT09T320ZDSR-JM	M	S	●		●	●	●	●	●	●		●	●			.375	.156	.071	.079
	JDMT120420ZDSR-JM	JDMT120420ZDSR-JM	M	S	●		●	●	●	●	●	●		●	●			.472	.187	.098	.079
	JDMT140520ZDSR-JM	JDMT140520ZDSR-JM	M	S	●		●	●	●	●	●	●		●	●			.551	.219	.110	.079
AJX ➲L206 **PMC ➲L289** 	**JDMT120420ZDSR-ST**	JDMT120420ZDSR-ST	M	S	●		●	●	●	●				●	●			.472	.187	.098	.079
	JDMT140520ZDSR-ST	JDMT140520ZDSR-ST	M	S	●		●	●	●	●				●	●			.551	.219	.110	.079

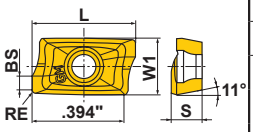
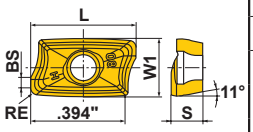
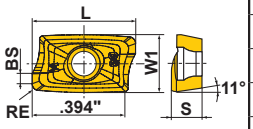
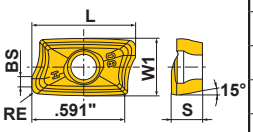
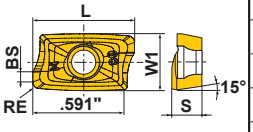
● = NEW

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◔ : Corte General
✠ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo

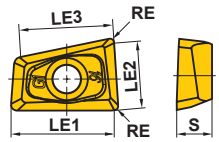
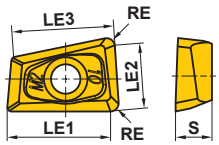
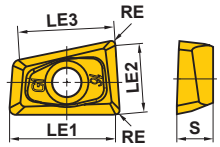
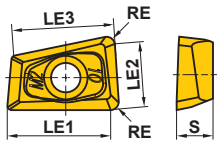
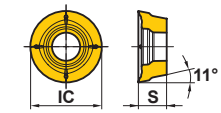
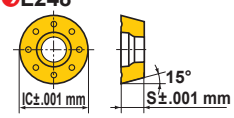
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto									Carburo		Dimensiones (plgs)				
					MC5020	MP6120	MP6130	MP7130	MP7140	MP9120	MP9130	VP15TF	VP20RT	VP30RT	HTi10	TF15	L	W1	S	BS	RE
APX3000 ➲L096 	**AOGT123602PEFR-GM**	AOGT123602PEFR-GM	G	F												●	.472	.260	.142	.071	.008
	AOGT123604PEFR-GM	AOGT123604PEFR-GM	G	F												●	.472	.260	.142	.063	.016
	AOGT123608PEFR-GM	AOGT123608PEFR-GM	G	F												●	.472	.260	.142	.047	.031
APX3000 ➲L096 	**AOMT123604PEER-H**	AOMT123604PEER-H	M	E	●	●	●	●		●	●	●	●				.472	.260	.142	.063	.016
	AOMT123608PEER-H	AOMT123608PEER-H	M	E	●	●	●	●		●	●	●	●				.472	.260	.142	.047	.031
	AOMT123616PEER-H	AOMT123616PEER-H	M	E	●	●	●	●		●	●	●	●				.472	.260	.142	.016	.063
APX3000 ➲L096 	**AOMT123602PEER-M**	AOMT123602PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.071	.008
	AOMT123604PEER-M	AOMT123604PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.063	.016
	AOMT123608PEER-M	AOMT123608PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.047	.031
	AOMT123610PEER-M	AOMT123610PEER-M	M	E		●	●	●		●	●	★	★				.472	.260	.142	.039	.039
	AOMT123612PEER-M	AOMT123612PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.031	.047
	AOMT123616PEER-M	AOMT123616PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.016	.063
	AOMT123620PEER-M	AOMT123620PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.016	.079
	AOMT123624PEER-M	AOMT123624PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.016	.094
	AOMT123630PEER-M	AOMT123630PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.016	.118
	AOMT123632PEER-M	AOMT123632PEER-M	M	E		●	●	●		●	●	●	●				.472	.260	.142	.016	.126
APX4000 ➲L110 	**AOMT184804PEER-H**	AOMT184804PEER-H	M	E	●	●	●	●		●	●	●	●				.709	.354	.189	.071	.016
	AOMT184808PEER-H	AOMT184808PEER-H	M	E	●	●	●	●		●	●	●	●				.709	.354	.189	.055	.031
	AOMT184816PEER-H	AOMT184816PEER-H	M	E	●	●	●	●		●	●	●	●				.709	.354	.189	.016	.063
	AOMT184832PEER-H	AOMT184832PEER-H	M	E			●	●				●					.709	.354	.189	.016	.126
	AOMT184840PEER-H	AOMT184840PEER-H	M	E			●	●				●					.709	.354	.189	.016	.157
	AOMT184850PEER-H	AOMT184850PEER-H	M	E			●	●				●					.709	.354	.189	—	.197
	AOMT184864PEER-H	AOMT184864PEER-H	M	E			●	●				●					.709	.354	.189	—	.250
APX4000 ➲L110 	**AOMT184804PEER-M**	AOMT184804PEER-M	M	E		●	●	●		●	●	●	●				.709	.354	.189	.071	.016
	AOMT184808PEER-M	AOMT184808PEER-M	M	E		●	●	●		●	●	●	●				.709	.354	.189	.055	.031
	AOMT184810PEER-M	AOMT184810PEER-M	M	E		●				●	●	★					.709	.354	.189	.039	.039
	AOMT184812PEER-M	AOMT184812PEER-M	M	E		●				●	●	●					.709	.354	.189	.031	.047
	AOMT184816PEER-M	AOMT184816PEER-M	M	E		●	●	●		●	●	●	●				.709	.354	.189	.016	.063
	AOMT184820PEER-M	AOMT184820PEER-M	M	E		●				●	●	★					.709	.354	.189	.016	.079

 ● : Existencia ★ : Existencia en Japón <10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable

Honeado :
E : Honeado

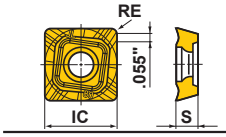
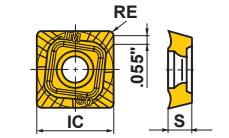
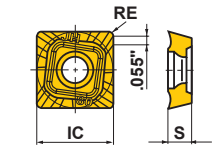
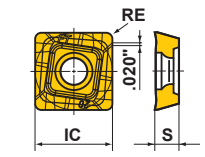
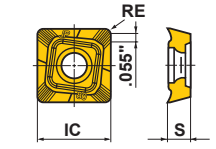
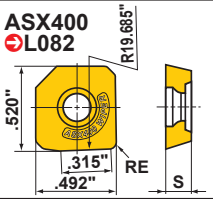
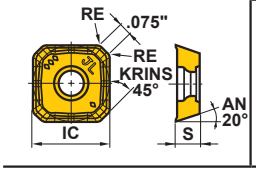
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto									Carburo	Dimensiones (plgs)					
					F7030	MC7020	MP6120	MP6130	MP7130	MP7140	MP9120	MP9130	VP15TF	VP30RT	MP8010	HTi10	LE1	LE2	LE3	IC	S	RE
AQX ➲L196 	**QOGT0830R-G1**	QOGT0830R-G1	G	E *			●				●		★			●	.287	.173	.287	–	.120	.016
	QOGT0934R-G1	QOGT0934R-G1	G	E *			●				●					●	.358	.220	.350	–	.134	.016
	QOGT1443R-G1	QOGT1443R-G1	G	E *			●				●					●	.484	.307	.465	–	.169	.016
	QOGT1651R-G1	QOGT1651R-G1	G	E *			●				●		★			●	.606	.390	.575	–	.200	.016
	QOGT1959R-G1	QOGT1959R-G1	G	E *			●				●					●	.728	.472	.681	–	.232	.016
AQX ➲L196 	**QOMT0830R-M2**	QOMT0830R-M2	M	E			●	●	●	●	●		●	●			.287	.173	.287	–	.120	.031
	QOMT0934R-M2	QOMT0934R-M2	M	E			●	●	●	●	●		●	●			.358	.220	.350	–	.134	.031
	QOMT1443R-M2	QOMT1443R-M2	M	E			●	●	●	●	●		●	●			.484	.307	.465	–	.169	.031
	QOMT1651R-M2	QOMT1651R-M2	M	E			●	●	●	●	●		●	●			.606	.390	.575	–	.200	.031
	QOMT1959R-M2	QOMT1959R-M2	M	E			●	●	●	●	●		●	●			.728	.472	.681	–	.232	.031
AQX (METRICO) ➲L196 	**QOGT0830R-G1**	QOGT0830R-G1	G	E *			●				●		★			●	.303	.193	.287	–	.120	.016
	QOGT1035R-G1	QOGT1035R-G1	G	E *			★				★		★			★	.390	.252	.366	–	.138	.016
	QOGT1342R-G1	QOGT1342R-G1	G	E *			★				★		★			★	.488	.319	.457	–	.165	.016
	QOGT1651R-G1	QOGT1651R-G1	G	E *			●				●		★			●	.623	.409	.575	–	.200	.016
	QOGT1856R-G1	QOGT1856R-G1	G	E *			★				★		★			★	.681	.449	.630	–	.220	.016
	QOGT2062R-G1	QOGT2062R-G1	G	E *			★				★		★			★	.780	.516	.713	–	.244	.016
	QOGT2576R-G1	QOGT2576R-G1	G	E *			★				★		★			★	.992	.654	.909	–	.299	.016
AQX (METRICO) ➲L196 	**QOMT0830R-M2**	QOMT0830R-M2	M	E			●	●	●	●	●		●	●			.287	.173	.287	–	.120	.031
	QOMT1035R-M2	QOMT1035R-M2	M	E			★	★	★	★	★		★	★			.374	.232	.366	–	.138	.031
	QOMT1342R-M2	QOMT1342R-M2	M	E			★	★	★	★	★		★	★			.472	.299	.457	–	.165	.031
	QOMT1651R-M2	QOMT1651R-M2	M	E			●	●	●	●	●		●	●			.606	.390	.575	–	.200	.031
	QOMT1856R-M2	QOMT1856R-M2	M	E			★	★	★	★	★		★	★			.665	.429	.630	–	.220	.031
	QOMT2062R-M2	QOMT2062R-M2	M	E			★	★	★	★	★		★	★			.764	.496	.713	–	.244	.031
	QOMT2576R-M2	QOMT2576R-M2	M	E			★	★	★	★	★		★	★			.976	.634	.909	–	.299	.031
ARP (METRICO) ➲L236 	**RPHT1040M0E4-L**	RPHT1040M0E4-L	H	E		●		●			●						–	–	–	.394	.156	–
	RPHT1040M0E4-M	RPHT1040M0E4-M	H	E		●		●			●						–	–	–	.394	.156	–
	RPHT1040M0E4-R	RPHT1040M0E4-R	H	E		●		●			●						–	–	–	.394	.156	–
	RPHT1248M0E4-L	RPHT1248M0E4-L	H	E		●		●			●						–	–	–	.472	.187	–
	RPHT1248M0E4-M	RPHT1248M0E4-M	H	E		●		●			●						–	–	–	.472	.187	–
	RPHT1248M0E4-R	RPHT1248M0E4-R	H	E		●		●			●						–	–	–	.472	.187	–
	RPMT1040M0E4-L	RPMT1040M0E4-L	M	E		●		●			●						–	–	–	.394	.156	–
	RPMT1040M0E4-M	RPMT1040M0E4-M	M	E		●		●			●						–	–	–	.394	.156	–
	RPMT1040M0E4-R	RPMT1040M0E4-R	M	E		●		●			●						–	–	–	.394	.156	–
	RPMT1248M0E4-L	RPMT1248M0E4-L	M	E		●		●			●						–	–	–	.472	.187	–
	RPMT1248M0E4-M	RPMT1248M0E4-M	M	E		●		●			●						–	–	–	.472	.187	–
	RPMT1248M0E4-R	RPMT1248M0E4-R	M	E		●		●			●						–	–	–	.472	.187	–
ARX (METRICO) ➲L248 	**RDMW0517M0E**	RDMW0517M0E	G	E									★	★			–	–	–	.197	.067	–
	RDMW0620M0E	RDMW0620M0E	G	E									★	★			–	–	–	.236	.078	–
	RDMW0724M0E	RDMW0724M0E	G	E									★	★			–	–	–	.276	.094	–

* HTi10 son tipo de honeado “F”.

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

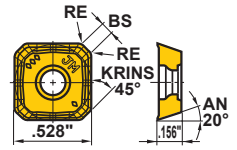
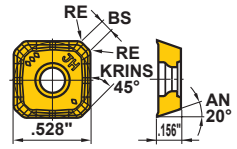
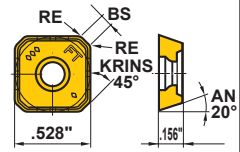
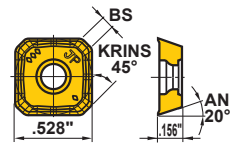
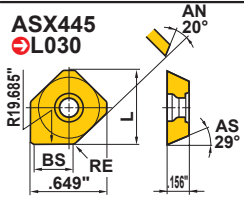
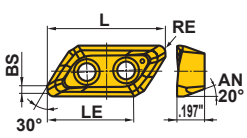
Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable
Honeado :
E : Redondo **F** : Filo Vivo
S : Chaflán+Redondo
T : Chaflán

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto									Cermet		Carburo	Dimensiones (plgs)		
					F7010	F7030	MC5020	MP6120	MP6130	MP7130	MP7140	MP9120	MP9130	VP15TF	VP30RT	NX2525	NX4545	HTi05T	HTi10	IC	S	RE
ASX400 ➲L082 	**SOET12T308PEER-JL**	SOET12T308PEER-JL	E	E	●		●	●	●	●	●	●	●	●		●				.500	.156	.031
ASX400 ➲L082 **Cortador Lateral ASX ➲L095**  Inserto Derecho Mostrado.	**SOMT12T308PEER-JM**	SOMT12T308PEER-JM	M	E	●	●	●	●	●	●	●	●	●	●	●	●				.500	.156	.031
	SOMT12T308PEEL-JM*	SOMT12T308PEEL-JM	M	E										★						.500	.156	.031
ASX400 ➲L082 	**SOMT12T308PEER-JH**	SOMT12T308PEER-JH	M	E	●	●	●	●	●	●	●	●	●	●	●					.500	.156	.031
ASX400 ➲L082 	**SOMT12T320PEER-FT**	SOMT12T320PEER-FT	M	E			●	●				●	●	●						.500	.156	.079
ASX400 ➲L082 	**SOGT12T308PEFR-JP**	SOGT12T308PEFR-JP	G	F															●	.500	.156	.031
ASX400 ➲L082 	**WOEW12T308PEER8C**	WOEW12T308PEER8C	E	E															●	–	.156	.031
	WOEW12T308PETR8C	WOEW12T308PETR8C	E	T												●				–	.156	.031
ASX445 ➲L030 	**SEET13T3AGEN-JL**	SEET13T3AGEN-JL	E	E	●		●	●	●	●	●	●	●	●		●				.528	.156	.059

*Utilizado en ASX400 especiales y cortador lateral ASX.

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable
Honeado :
E : Redondo **F** : Filo Vivo
S : Chaflán+Redondo
T : Chaflán

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto										Cermet	Cermet Recubierto	Carburo			Dimensiones (plgs)			
					F7010	F7030	MC5020	MP6120	MP6130	MP7130	MP7140	MP9120	MP9130	VP15TF	VP30RT	LC15TF	NX2525	NX4545	VP25N	HTi05T	HTi10	TF15	L	LE	BS	RE
ASX445 ➲L030 	**SEMT13T3AGSN-JM**	SEMT13T3AGSN-JM	M	S	●	●	●	●	●	●	●	●	●	●	●		●						–	–	–	.059
ASX445 ➲L030 	**SEMT13T3AGSN-JH**	SEMT13T3AGSN-JH	M	S		●	●	●	●	●	●	●	●	●	●								–	–	.075	.059
ASX445 ➲L030 	**SEMT13T3AGSN-FT**	SEMT13T3AGSN-FT	M	S			●																–	–	.075	.059
ASX445 ➲L030 	**SEGT13T3AGFN-JP**	SEGT13T3AGFN-JP	G	F																●			–	–	.087	–
ASX445 ➲L030 	**WEEW13T3AGER8C**	WEEW13T3AGER8C	E	E			●							●						●			.654	–	.295	.059
	WEEW13T3AGTR8C	WEEW13T3AGTR8C	E	T													●	●					.654	–	.295	.059
AXD4000 ➲L156 	**XDGX175004PDFR-GL**	XDGX175004PDFR-GL	G	F											★						●		.906	.665	.067	.016
	XDGX175008PDFR-GL	XDGX175008PDFR-GL	G	F											★						●		.906	.669	.052	.031
	XDGX175012PDFR-GL	XDGX175012PDFR-GL	G	F											★						●		.906	.669	.037	.047
	XDGX175016PDFR-GL	XDGX175016PDFR-GL	G	F											★						●		.866	.646	.056	.063
	XDGX175020PDFR-GL	XDGX175020PDFR-GL	G	F											★						●		.866	.646	.041	.079
	XDGX175024PDFR-GL	XDGX175024PDFR-GL	G	F											★						●		.866	.646	.026	.094
	XDGX175030PDFR-GL	XDGX175030PDFR-GL	G	F											★						●		.831	.634	.033	.118
	XDGX175032PDFR-GL	XDGX175032PDFR-GL	G	F											★						●		.831	.634	.026	.126
	XDGX175040PDFR-GL	XDGX175040PDFR-GL	G	F											★						●		.787	.614	.033	.157
	XDGX175050PDFR-GL	XDGX175050PDFR-GL	G	F											★						●		.764	.602	.016	.197

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✣ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo

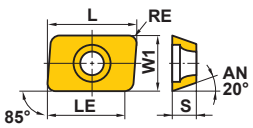
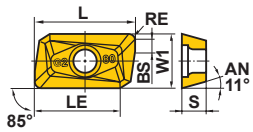
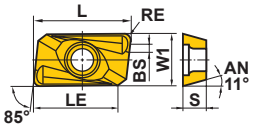
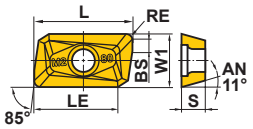
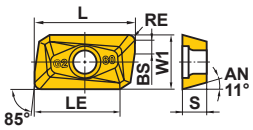
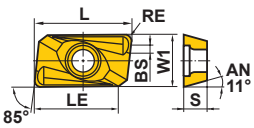
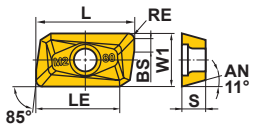
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7030	Recubierto MP6120	Recubierto MP9120	Recubierto VP15TF	Recubierto LC15TF	Recubierto UP20M	Cermet NX2525	Cermet NX4545	Carburo UTi20T	Carburo HTi10	Carburo TF15	L	LE	S	BS	RE
AXD4000 ➲L156	**XDGX175004PDER-GM**	XDGX175004PDER-GM	G	E		●	●									.906	.669	.197	.067	.016
	XDGX175008PDER-GM	XDGX175008PDER-GM	G	E		●	●									.906	.669	.197	.047	.031
	XDGX175012PDER-GM	XDGX175012PDER-GM	G	E		●	●									.906	.669	.197	.035	.047
	XDGX175016PDER-GM	XDGX175016PDER-GM	G	E		●	●									.866	.626	.197	.054	.063
	XDGX175020PDER-GM	XDGX175020PDER-GM	G	E		●	●									.866	.626	.197	.033	.079
	XDGX175024PDER-GM	XDGX175024PDER-GM	G	E		●	●									.866	.626	.197	.017	.094
	XDGX175030PDER-GM	XDGX175030PDER-GM	G	E		●	●									.831	.630	.197	.023	.118
	XDGX175032PDER-GM	XDGX175032PDER-GM	G	E		●	●									.831	.630	.197	.015	.126
	XDGX175040PDER-GM	XDGX175040PDER-GM	G	E		●	●									.787	.583	.197	.020	.157
	XDGX175050PDER-GM	XDGX175050PDER-GM	G	E		●	●									.764	.591	.197	.014	.197
AXD4000 ➲L156	**XDGX175004PDFR-GM**	XDGX175004PDFR-GM	G	F											●	.906	.669	.197	.066	.016
	XDGX175008PDFR-GM	XDGX175008PDFR-GM	G	F											●	.906	.669	.197	.047	.031
	XDGX175012PDFR-GM	XDGX175012PDFR-GM	G	F											●	.906	.669	.197	.035	.047
	XDGX175016PDFR-GM	XDGX175016PDFR-GM	G	F											●	.866	.626	.197	.054	.063
	XDGX175020PDFR-GM	XDGX175020PDFR-GM	G	F											●	.866	.626	.197	.033	.079
	XDGX175024PDFR-GM	XDGX175024PDFR-GM	G	F											●	.866	.626	.197	.017	.094
	XDGX175030PDFR-GM	XDGX175030PDFR-GM	G	F											●	.831	.630	.197	.023	.118
	XDGX175032PDFR-GM	XDGX175032PDFR-GM	G	F											●	.831	.630	.197	.015	.126
	XDGX175040PDFR-GM	XDGX175040PDFR-GM	G	F											●	.787	.583	.197	.020	.157
	XDGX175050PDFR-GM	XDGX175050PDFR-GM	G	F											●	.764	.591	.197	.014	.197
AXD7000 ➲L166	**XDGX227008PDFR-GL**	XDGX227008PDFR-GL	G	F					★						●	1.181	.850	.276	.079	.031
	XDGX227016PDFR-GL	XDGX227016PDFR-GL	G	F					★						●	1.181	.854	.276	.048	.063
	XDGX227020PDFR-GL	XDGX227020PDFR-GL	G	F					★						●	1.181	.854	.276	.032	.079
	XDGX227024PDFR-GL	XDGX227024PDFR-GL	G	F					□						●	1.181	.854	.276	.017	.094
	XDGX227030PDFR-GL	XDGX227030PDFR-GL	G	F					★						●	1.134	.835	.276	.033	.118
	XDGX227032PDFR-GL	XDGX227032PDFR-GL	G	F					★						●	1.134	.835	.276	.025	.126
	XDGX227040PDFR-GL	XDGX227040PDFR-GL	G	F					★						●	1.083	.811	.276	.038	.157
	XDGX227050PDFR-GL	XDGX227050PDFR-GL	G	F					★						●	1.063	.799	.276	.016	.197
AXD7000 ➲L166	**XDGX227008PDER-GLA**	XDGX227008PDER-GLA	G	E		●	●									1.181	.854	.276	.078	.031
	XDGX227016PDER-GLA	XDGX227016PDER-GLA	G	E		●	●									1.181	.854	.276	.046	.063
	XDGX227020PDER-GLA	XDGX227020PDER-GLA	G	E		●	●									1.181	.854	.276	.029	.079
	XDGX227024PDER-GLA	XDGX227024PDER-GLA	G	E		●	●									1.181	.854	.276	.013	.094
	XDGX227030PDER-GLA	XDGX227030PDER-GLA	G	E		●	●									1.134	.831	.276	.029	.118
	XDGX227032PDER-GLA	XDGX227032PDER-GLA	G	E		●	●									1.134	.831	.276	.022	.126
	XDGX227040PDER-GLA	XDGX227040PDER-GLA	G	E		●	●									1.083	.803	.276	.033	.157
	XDGX227050PDER-GLA	XDGX227050PDER-GLA	G	E		●	●									1.063	.795	.276	.009	.197
BAE500	**AEMW150304ER**	AEMW150304ER	M	E						●	★		●			.657	.598	.125	—	.016
	AEMW150308ER	AEMW150308ER	M	E						●	★		●			.654	.583	.125	—	.031

● : Existencia ★ : Existencia en Japón □ : A fabricar según de demanda.
<10 insertos por caja>

Material		
P	Acero	
M	Acero Inoxidable	
K	Fundición	
N	Metales no ferrosos	
S	Aleaciones Termoresistentes, Aleaciones de Titanio	
H	Acero Endurecido	

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✣ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo

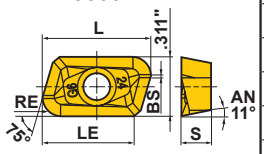
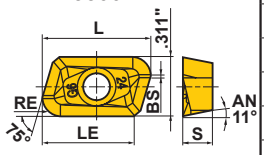
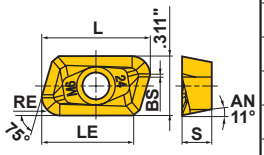
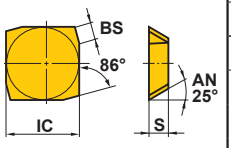
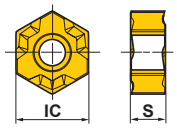
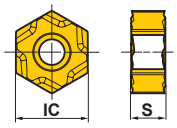
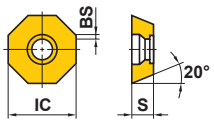
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7030	Recubierto VP15TF	Recubierto UP20M	Cermet NX4545	Carburo UTi20T	Carburo HTi10	Dimensiones (plgs) L	LE	W1	S	BS	RE
BAE600 	**AEMW19T304ER**	AEMW19T304ER	M	E			●		●		.793	.724	.500	.156	–	.016
	AEMW19T308ER	AEMW19T308ER	M	E			●		●		.791	.709	.500	.156	–	.031
BAP300 	**APGT1135PDFR-G2**	APGT1135PDFR-G2	G	F						●	.445	.382	.250	.138	.047	.031
BAP300 **SRM2 ➔L274** 	**APMT1135PDER-H1**	APMT1135PDER-H1	M	E		●		★			.442	.354	.250	.138	.059	.016
	APMT1135PDER-H2	APMT1135PDER-H2	M	E	●	●		●			.442	.354	.250	.138	.047	.031
	APMT1135PDER-H6	APMT1135PDER-H6	M	E	★						.437	.354	.250	.138	.016	.094
BAP300 	**APMT1135PDER-M0**	APMT1135PDER-M0	M	E	●						.442	.354	.250	.138	.071	.008
	APMT1135PDER-M1	APMT1135PDER-M1	M	E	●						.442	.354	.250	.138	.059	.016
	APMT1135PDER-M2	APMT1135PDER-M2	M	E	●	●		●			.440	.354	.250	.138	.047	.031
BAP400 	**APGT1604PDFR-G2**	APGT1604PDFR-G2	G	F						●	.670	.551	.375	.187	.055	.031
BAP400 	**APMT1604PDER-H1**	APMT1604PDER-H1	M	E	★						.670	.551	.375	.187	.067	.016
	APMT1604PDER-H2	APMT1604PDER-H2	M	E	●	●		●		●	.674	.551	.375	.187	.055	.031
	APMT1604PDER-H4	APMT1604PDER-H4	M	E	★						.672	.551	.375	.187	.016	.063
	APMT1604PDER-H6	APMT1604PDER-H6	M	E	★						.667	.551	.375	.187	.016	.094
	APMT1604PDER-H8	APMT1604PDER-H8	M	E	★						.661	.551	.375	.187	.016	.126
BAP400 	**APMT1604PDER-M2**	APMT1604PDER-M2	M	E	●	●		●			.673	.551	.375	.187	.055	.031

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo
S : Chaflán+Redondo **T** : Chaflán

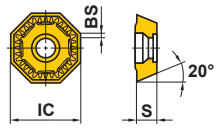
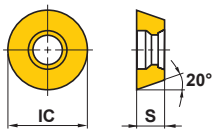
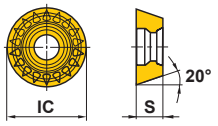
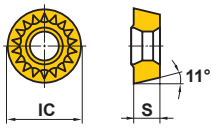
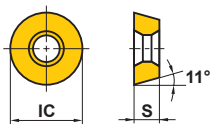
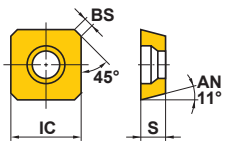
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7010	Recubierto F7030	Recubierto MC5015	Recubierto VP15TF AP20M	Cermet NX4545	Carburo UTi20T HTi10	Dimensiones (plgs) L	LE	IC	S	BS	RE
BAP3500 	**XPGT13T3PDER-G1**	XPGT13T3PDER-G1	G	E				●			.575	.460	–	.156	.063	.016
	XPGT13T3PDER-G2	XPGT13T3PDER-G2	G	E				●			.579	.460	–	.156	.047	.031
	XPGT13T3PDER-G6	XPGT13T3PDER-G6	G	E				●			.559	.453	–	.156	.016	.094
	XPGT13T3PDER-G75	XPGT13T3PDER-G75	G	E				●			.543	.445	–	.156	.016	.118
	XPGT13T3PDER-G8	XPGT13T3PDER-G8	G	E				●			.539	.441	–	.156	.016	.126
BAP3500 	**XPGT13T3PDFR-G1**	XPGT13T3PDFR-G1	G	F						●	.575	.460	–	.156	.063	.016
	XPGT13T3PDFR-G2	XPGT13T3PDFR-G2	G	F						●	.579	.460	–	.156	.047	.031
	XPGT13T3PDFR-G6	XPGT13T3PDFR-G6	G	F						●	.559	.453	–	.156	.016	.094
	XPGT13T3PDFR-G75	XPGT13T3PDFR-G75	G	F						●	.543	.445	–	.156	.016	.118
	XPGT13T3PDFR-G8	XPGT13T3PDFR-G8	G	F						●	.539	.441	–	.156	.016	.126
BAP3500 	**XPMT13T3PDER-M1**	XPMT13T3PDER-M1	M	E	●		●				.575	.460	–	.156	.063	.016
	XPMT13T3PDER-M2	XPMT13T3PDER-M2	M	E	●		●				.579	.465	–	.156	.047	.031
	XPMT13T3PDER-M6	XPMT13T3PDER-M6	M	E	●		●				.559	.457	–	.156	.016	.094
	XPMT13T3PDER-M75	XPMT13T3PDER-M75	M	E	●		●				.543	.449	–	.156	.016	.118
	XPMT13T3PDER-M8	XPMT13T3PDER-M8	M	E	●		●				.539	.445	–	.156	.016	.126
BF407  Inserto Derecho Mostrado.	**SFAN42ZFFR2**	SFAN1203ZFFR2	A	F						★	–	–	.500	.125	.094	–
	SFAN42ZFFL2	SFAN1203ZFFL2	A	F						★	–	–	.500	.125	.094	–
	SFCN42ZFFR2	SFCN1203ZFFR2	A	F						●	–	–	.500	.125	.094	–
BMR ⊖L292 	**HNMX1206EN06-R**	HNMX1206EN06-R					★				–	–	.500	.236	–	–
BMR ⊖L292 	**HNMX1206ER12-R**	HNMX1206ER12-R					★				–	–	.500	.236	–	–
BOE ⊖L256 	**OEMX12T3ETR1**	OEMX12T3ETR1	M	T					●		–	–	.500	.156	.039	–
	OEMX12T3ESR1	OEMX12T3ESR1	M	S	●						–	–	.500	.156	.039	–
	OEMX1705ETR1	OEMX1705ETR1	M	T	●			●	●		–	–	.669	.197	.055	–
	OEMX1705ESR1	OEMX1705ESR1	M	S	●						–	–	.669	.197	.055	–

● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo
T : Chaflán

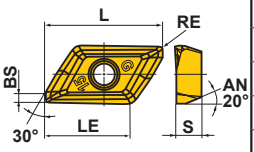
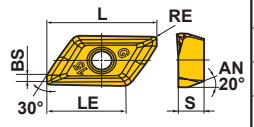
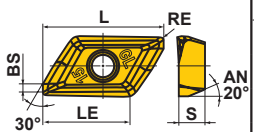
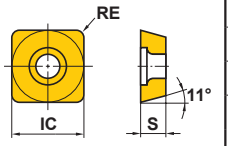
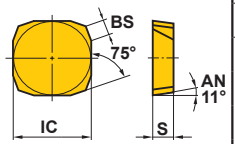
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto				Cermet	Carburo	Dimensiones (plgs)			
					F7010	F7030	VP15TF	LC15TF UP20M	NX2525	UTi20T	IC	S	BS	RE
BOE ➲L256 	**OEMX12T3EER1-JS**	OEMX12T3EER1-JS	M	E	★						.500	.156	.039	–
	OEMX12T3ETR1-JS	OEMX12T3ETR1-JS	M	T					●		.500	.156	.039	–
	OEMX1705EER1-JS	OEMX1705EER1-JS	M	E	★						.669	.197	.055	–
	OEMX1705ETR1-JS	OEMX1705ETR1-JS	M	T			●		●		.669	.197	.055	–
BOE ➲L256 	**REMX1705EN**	REMX1705EN	M	E	●						.679	.205	–	–
	REMX1705SN	REMX1705SN	M	S	★						.679	.205	–	–
BOE ➲L256 	**REMX12T3EN-JS**	REMX12T3EN-JS	M	E	●						.500	.164	–	–
	REMX1705EN-JS	REMX1705EN-JS	M	E	●						.679	.205	–	–
BRP ➲L252 	**RPMT07T200E-JS**	RPMT07T200E-JS	M	E			●				.313	.109	–	–
	RPMT09T300E-JS	RPMT09T300E-JS	M	E			●				.375	.156	–	–
	RPMT120400E-JS	RPMT120400E-JS	M	E			●				.500	.188	–	–
	RPMT150600E-JS	RPMT150600E-JS	M	E			●				.625	.250	–	–
BRP ➲L252 	**RPMW120400E**	RPMW120400E	M	E	●		●				.500	.188	–	–
	RPMW150600E	RPMW150600E	M	E			●				.625	.250	–	–
BSP 	**SPMB1204APT**	SPMB1204APT	M	T				●		●	.500	.187	.055	–

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7010	Recubierto MC5020	Recubierto VP15TF	Recubierto LC15TF	Recubierto UP20M	Cermet NX2525	Cermet NX4545	Carburo UTi20T	Carburo HTi10	Carburo TF15	Dimensiones (plgs) L	LE	IC	S	BS	RE
BXD4000 ➲L176 	**XDGT1550PDER-G04**	XDGT1550PDER-G04	G	E			●								.886	.610	–	.197	.059	.016
	XDGT1550PDER-G08	XDGT1550PDER-G08	G	E			●								.886	.610	–	.197	.043	.031
	XDGT1550PDER-G12	XDGT1550PDER-G12	G	E			★								.886	.610	–	.197	.028	.047
	XDGT1550PDER-G16	XDGT1550PDER-G16	G	E			●								.886	.614	–	.197	.016	.063
	XDGT1550PDER-G20	XDGT1550PDER-G20	G	E			●								.854	.614	–	.197	.008	.079
	XDGT1550PDER-G30	XDGT1550PDER-G30	G	E			●								.787	.583	–	.197	.024	.118
	XDGT1550PDER-G32	XDGT1550PDER-G32	G	E			●								.787	.583	–	.197	.016	.126
	XDGT1550PDER-G40	XDGT1550PDER-G40	G	E			●								.748	.567	–	.197	.020	.157
	XDGT1550PDER-G50	XDGT1550PDER-G50	G	E			●								.709	.551	–	.197	.016	.197
BXD4000 ➲L176 	**XDGT1550PDFR-G04**	XDGT1550PDFR-G04	G	F			★							●	.866	.610	–	.197	.059	.016
	XDGT1550PDFR-G08	XDGT1550PDFR-G08	G	F			★							●	.866	.610	–	.197	.043	.031
	XDGT1550PDFR-G12	XDGT1550PDFR-G12	G	F			★							★	.866	.610	–	.197	.028	.047
	XDGT1550PDFR-G16	XDGT1550PDFR-G16	G	F			★							●	.866	.614	–	.197	.016	.063
	XDGT1550PDFR-G20	XDGT1550PDFR-G20	G	F			★							●	.854	.614	–	.197	.008	.079
	XDGT1550PDFR-G30	XDGT1550PDFR-G30	G	F			★							●	.787	.583	–	.197	.024	.118
	XDGT1550PDFR-G32	XDGT1550PDFR-G32	G	F			★							●	.787	.583	–	.197	.016	.126
	XDGT1550PDFR-G40	XDGT1550PDFR-G40	G	F			★							●	.748	.567	–	.197	.020	.157
	XDGT1550PDFR-G50	XDGT1550PDFR-G50	G	F			★							●	.709	.551	–	.197	.016	.197
BXD4000 ➲L176 	**XDGT1550PDFR-GL04**	XDGT1550PDFR-GL04	G	F										●	.866	.610	–	.197	.059	.016
	XDGT1550PDFR-GL08	XDGT1550PDFR-GL08	G	F										●	.866	.610	–	.197	.043	.031
CFSP ➲L260 	**SPMW321**	SPMW090304	M	E			●	★	★★	★★					–	–	.375	.125	–	.016
	SPMW322	SPMW090308	M	E			★	★	★★	★★					–	–	.375	.125	–	.031
	SPMW421	SPMW120304	M	E			●	●	★★	●●					–	–	.500	.125	–	.016
	SPMW422	SPMW120308	M	E			●	●	★★	●●					–	–	.500	.125	–	.031
FBP415  Inserto Derecho Mostrado.	**SPEN42EEER1**	SPEN1203EEER1	E	E	●	●							★		–	–	.500	.125	.055	–
	SPEN42EEEL1	SPEN1203EEEL1	E	E		●							★		–	–	.500	.125	.055	–

★ NX2525 y NX4545 son tipo de honeado “T”. HTi10 son tipo de honeado “F”.

● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
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Honeado :
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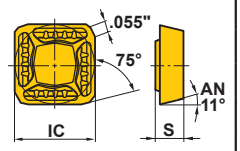
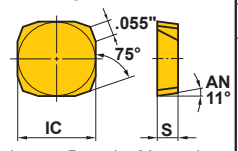
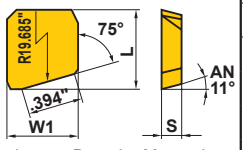
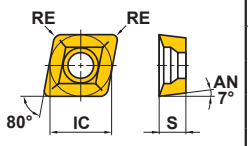
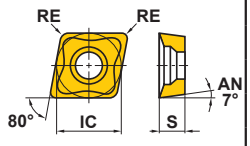
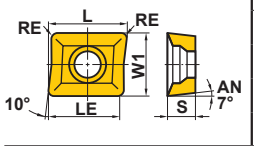
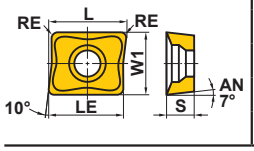
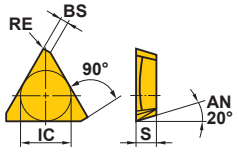
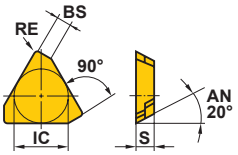
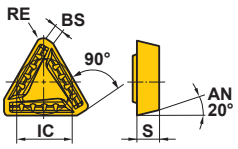
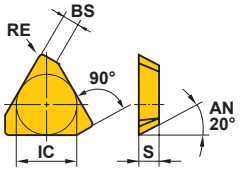
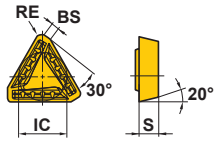
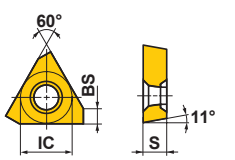
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto				Carburo			Dimensiones (plgs)					
					F7030	MC5020	VP15TF	UP20M AP10H	UTi20T	HTi05T	HTi10	L	LE	W1	IC	S	RE
FBP415 	**SPER42EEER-JS**	SPER1203EEER-JS	E	E		●						–	–	–	.500	.125	–
FBP415  Inserto Derecho Mostrado.	**SPNN42EEER1**	SPNN1203EEER1	N	E		●					★	–	–	–	.500	.125	–
	SPNN42EEEL1	SPNN1203EEEL1	N	E							★	–	–	–	.500	.125	–
FBP415  Inserto Derecho Mostrado.	**WPC42EEER10C**	WPC42EEER10C	C	E						●		.597	–	.500	–	.125	–
	WPC42EEEL10C	WPC42EEEL10C	C	E						★		.597	–	.500	–	.125	–
LER ➲L194 	**CCMX083508ENA**	CCMX083508EN-A	M	E	★			●	★			–	–	–	.313	.138	.031
	CCMX09T308ENA	CCMX09T308EN-A	M	E	●			● ●	★			–	–	–	.375	.156	.031
LER ➲L194 	**CCMX09T308ENB**	CCMX09T308EN-B	M	E	★				★			–	–	–	.375	.156	.031
LER ➲L194 	**ZCMX083508ERA**	ZCMX083508ER-A	M	E	★				★			.409	.335	.313	–	.137	.031
	ZCMX09T308ERA	ZCMX09T308ER-A	M	E	●			● ●	★			.472	.433	.375	–	.156	.031
LER ➲L194 	**ZCMX09T308ERB**	ZCMX09T308ER-B	M	E	★			●	★			.472	.433	.375	–	.156	.031

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
●: Corte Estable
◐: Corte General
✠: Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo **S** : Chaflán+Redondo
T : Chaflán

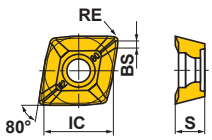
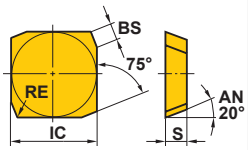
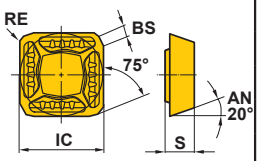
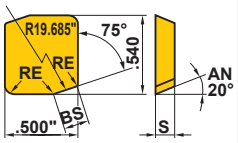
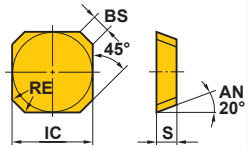
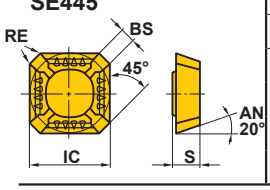
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7030	Recubierto MC5020	Recubierto VP15TF	Recubierto UP20M	Recubierto AP10H	Cermet NX2525	Cermet NX4545	Carburo UTi20T	Carburo HTi10	Dimensiones (plgs) IC	S	BS	RE
NSE300 Para mayor precisión 	**TECN32PEFR1W**	TECN1603PEFR1W	C	F									★	.375	.125	.055	.016
	TECN32PEER1W	TECN1603PEER1W	C	E									★	.375	.125	.055	.016
	TECN32PETR1W	TECN1603PETR1W	C	T						★	★	★		.375	.125	.055	.016
NSE300 	**TEEN32PEFR1**	TEEN1603PEFR1	E	F									●	.375	.125	.055	.016
	TEEN32PEER1	TEEN1603PEER1	E	E			●						●	.375	.125	.055	.016
	TEEN32PETR1	TEEN1603PETR1	E	T				●		★	●	●		.375	.125	.055	.016
	TEEN32PESR1	TEEN1603PESR1	E	S	●	★								.375	.125	.055	.016
NSE300 	**TEER32PEER-JS**	TEER1603PEER-JS	E	E	●							★		.375	.125	.055	.016
NSE400 SE400 	**TECN43PEFR1**	TECN2204PEFR1	C	F									●	.500	.187	.055	.039
	TECN43PEER1	TECN2204PEER1	C	E									★	.500	.187	.055	.039
	TECN43PETR1	TECN2204PETR1	C	T						★	★	★		.500	.187	.055	.039
	TEEN43PEFR1	TEEN2204PEFR1	E	F									●	.500	.187	.055	.039
	TEEN43PEER1	TEEN2204PEER1	E	E			●						●	.500	.187	.055	.039
	TEEN43PETR1	TEEN2204PETR1	E	T				●		●	●	●		.500	.187	.055	.039
	TEEN43PESR1	TEEN2204PESR1	E	S	●	★								.500	.187	.055	.039
	TEKN43PEER1	TEKN2204PEER1	K	E									★	.500	.187	.076	–
	TEKN43PESR1	TEKN2204PESR1	K	S	★									.500	.187	.076	–
	TEKN43PETR1	TEKN2204PETR1	K	T				★		★		★		.500	.187	.076	–
	TEKN43PETR	TEKN2204PETR	K	T							★			.500	.187	.076	–
NSE400 SE400 	**TEER43PEER-JS**	TEER2204PEER-JS	E	E	★							★		.500	.187	.055	.039
PMF ➲L290 	**TPEW1303ZPER2**	TPEW1303ZPER2	E	E			●		●					.313	.125	.079	–

●: Existencia ★: Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◔ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo **S** : Chaflán+Redondo
T : Chaflán **X** : Redondo(pequeño)

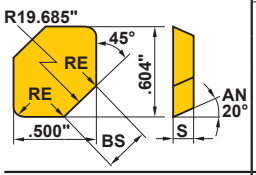
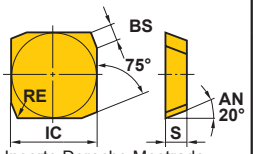
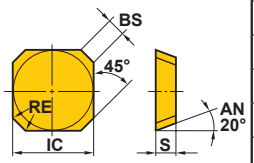
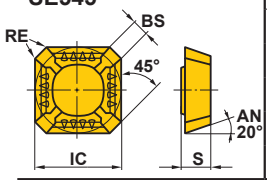
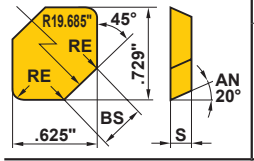
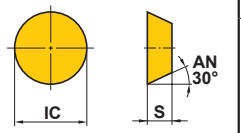
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto				Cermet		Carburo			Dimensiones (plgs)			
					F7010	F7030	MC5015 MC5020	VP15TF	NX2525	NX4545	UTi20T	HTi05T	HTi10	IC	S	BS	RE
PMR ➲L291	**CPMT1205ZPEN-M2**	CPMT1205ZPEN-M2	M	E				●						.500	.219	.055	.031
	**CPMT1205ZPEN-M3**	CPMT1205ZPEN-M3	M	E				★						.500	.219	.055	.047
SE415	**SEEN42EFFR1**	SEEN1203EFFR1	E	F									●	.500	.125	.055	.039
	**SEEN42EFER1**	SEEN1203EFER1	E	E	●			●						.500	.125	.055	.039
	SEEN42EFTR1	SEEN1203EFTR1	E	T					●	●				.500	.125	.055	.039
	SEEN42EFSR1	SEEN1203EFSR1	E	S		★	★							.500	.125	.055	.039
	SEKN42EFSR1	SEKN1203EFSR1	K	S		★								.500	.125	.055	–
	SEKN42EFTR1	SEKN1203EFTR1	K	T							★			.500	.125	.055	–
Inserto Derecho Mostrado.	**SEKN42EFTR**	SEKN1203EFTR	K	F						★				.500	.125	.071	.039
SE415	**SEER42EFER-JS**	SEER1203EFER-JS	E	E		★	★							.500	.125	.055	.039
																	
SE415	**WEC42EFER5C**	WEC42EFER5C	C	E							★			–	.125	.197	.039
	**WEC42EFTR5C**	WEC42EFTR5C	C	T					●					–	.125	.197	.039
SE445	**SECN42AFTN1**	SECN1203AFTN1	C	T						★				.500	.125	.055	.039
	SEEN42AFFN1	SEEN1203AFFN1	E	F									●	.500	.125	.055	.039
	SEEN42AFEN1	SEEN1203AFEN1	E	E				●						.500	.125	.055	.039
	**SEEN42AFTN1**	SEEN1203AFTN1	E	T	●			●	●	●				.500	.125	.055	.039
	SEEN42AFSN1	SEEN1203AFSN1	E	S		●	●	●						.500	.125	.055	.039
	SEEN42AFXN1	SEEN1203AFXN1	E	X				●						.500	.125	.055	.039
	SEKN42AFSN1	SEKN1203AFSN1	K	S		★								.500	.125	.055	–
	SEKN42AFTN1	SEKN1203AFTN1	K	T							★			.500	.125	.055	–
	SEKN42AFTN	SEKN1203AFTN	K	T						★				.500	.125	.067	.039
SE445	**SEER42AFEN-JS**	SEER1203AFEN-JS	E	E	●	●	●	●						.500	.125	.055	.039
	**SEER42AFXN-JS**	SEER1203AFXN-JS	E	X				●						.500	.125	.055	.039

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo **S** : Chaflán+Redondo
T : Chaflán

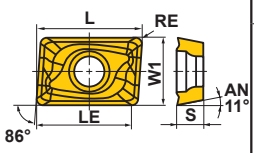
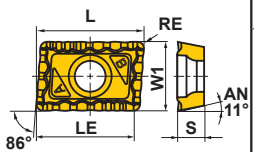
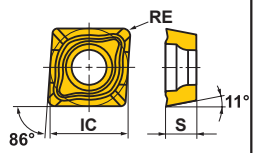
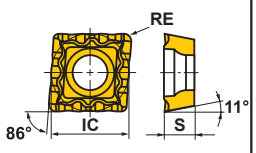
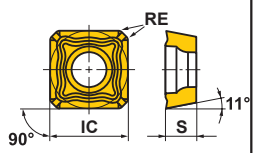
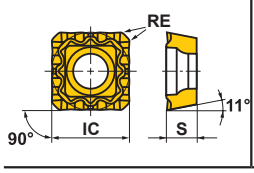
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7010	Recubierto F7030	Recubierto MC5020	Recubierto VP15TF	Recubierto UP20M	Cermet NX2525	Cermet NX4545	Carburo UTi20T	Carburo HTi05T	Carburo HTi10	Dimensiones (plgs) IC	S	BS	RE
SE445 	**WEC42AFTR5C**	WEC42AFTR5C	C	T						●					–	.125	.197	.039
SE515  Inserto Derecho Mostrado.	**SEEN53EFER1**	SEEN1504EFER1	E	E				★							.625	.187	.055	.039
SE545 	**SEEN53AFEN1**	SEEN1504AFEN1	E	E				●							.625	.187	.055	.039
	SEEN53AFTN1	SEEN1504AFTN1	E	T	●					●	●				.625	.187	.055	.039
	SEEN53AFSN1	SEEN1504AFSN1	E	S		●	●								.625	.187	.055	.039
	SEKN53AFSN1	SEKN1504AFSN1	K	S		★									.625	.187	.055	–
	SEKN53AFTN1	SEKN1504AFTN1	K	T								★			.625	.187	.055	–
SE545 	**SEER53AFEN-JS**	SEER1504AFEN-JS	E	E		★	★								.625	.187	.055	.039
SE545 	**WEC53AFER5C**	WEC53AFER5C	C	E								●			–	.187	.197	.039
	WEC53AFTR5C	WEC53AFTR5C	C	T						★					–	.187	.197	.039
SG20 	**RGEN2004EN**	RGEN2004M0EN	E	E				★							.787	.187	–	–
	RGEN2004SN	RGEN2004M0SN	E	S		★			★			★	★		.787	.187	–	–

● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material			
	P	Acero	
	M	Acero Inoxidable	
	K	Fundición	
	N	Metales no ferrosos	
	S	Aleaciones Termoresistentes, Aleaciones de Titanio	
	H	Acero Endurecido	

Condiciones de Corte (Guía) :
● : Corte Estable
◕ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo

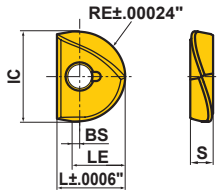
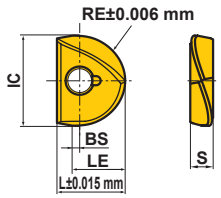
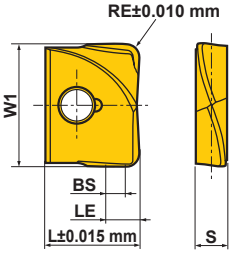
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto		Dimensiones (plgs)					
					VP15TF	VP20RT	L	LE	W1	IC	S	RE
SPX ➲L180 	**JPMX140412-JM**	JPMX140412-JM	M	E	●	●	.563	.508	.500	–	.187	.047
	JPMX190412-JM	JPMX190412-JM	M	E	●	●	.750	.693	.500	–	.187	.047
SPX ➲L180 	**JPMX140412-WH**	JPMX140412-WH	M	E	●	●	.563	.508	.500	–	.187	.047
	JPMX190412-WH	JPMX190412-WH	M	E	●	●	.750	.693	.500	–	.187	.047
SPX ➲L180 	**MPMX120412-JM**	MPMX120412-JM	M	E	●	●	–	–	–	.500	.187	.047
SPX ➲L180 	**MPMX120412-WH**	MPMX120412-WH	M	E	●	●	–	–	–	.500	.187	.047
SPX ➲L180 	**SPMX120408-JM**	SPMX120408-JM	M	E	●	●	–	–	–	.500	.187	.031
SPX ➲L180 	**SPMX120408-WH**	SPMX120408-WH	M	E	●	●	–	–	–	.500	.187	.031

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◔ : Corte General
✻ : Corte Inestable

Honeado :
F : Filo Vivo

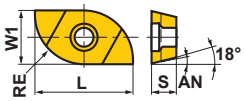
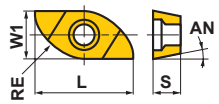
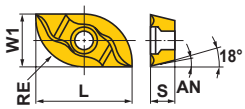
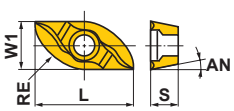
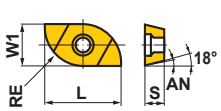
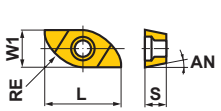
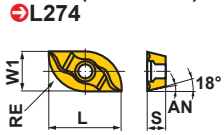
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto EP6120	Recubierto VP15TF	Recubierto MP8010	Dimensiones (plgs) L	LE	W1	IC	S	BS	RE	APMX
SRF ➲L262 	**SRFT0375**	SRFT0375	–	F	●	●	●	.335	.216	–	.375	.102	.020	.1875	–
	SRFT0500	SRFT0500	–	F	●	●	●	.394	.256	–	.500	.118	.020	.2500	–
	SRFT0625	SRFT0625	–	F	●	●	●	.472	.354	–	.625	.158	.039	.3125	–
	SRFT0750	SRFT0750	–	F	●	●	●	.591	.433	–	.750	.197	.039	.3750	–
	SRFT1000	SRFT1000	–	F	●	●	●	.728	.531	–	1.000	.236	.039	.5000	–
	SRFT1250	SRFT1250	–	F	●	●	●	.925	.669	–	1.250	.276	.039	.6250	–
SRF (METRICO) ➲L262 	**SRFT10**	SRFT10	–	F	★	★	★	.335	.217	–	.394	.102	.020	.1969	–
	SRFT12	SRFT12	–	F	★	★	★	.394	.256	–	.472	.118	.020	.2362	–
	SRFT16	SRFT16	–	F	★	★	★	.472	.354	–	.630	.157	.039	.3150	–
	SRFT20	SRFT20	–	F	★	★	★	.591	.433	–	.787	.197	.039	.3937	–
	SRFT25	SRFT25	–	F	★	★	★	.728	.531	–	.984	.236	.039	.4921	–
	SRFT30	SRFT30	–	F	★	★	★	.886	.630	–	1.181	.276	.039	.5906	–
	SRFT32	SRFT32	–	F	★	★	★	.925	.669	–	1.260	.276	.039	.6299	–
SUF (METRICO) ➲L262 	**SUFT10R05**	SUFT10R05	–	F		★	★	.335	.059	.394	–	.102	.039	.0197	.0591
	SUFT10R10	SUFT10R10	–	F		★	★	.335	.079	.394	–	.102	.039	.0394	.0787
	SUFT10R20	SUFT10R20	–	F		★	★	.335	.118	.394	–	.102	.039	.0787	.1181
	SUFT12R05	SUFT12R05	–	F		★	★	.394	.067	.472	–	.118	.047	.0197	.0669
	SUFT12R10	SUFT12R10	–	F		★	★	.394	.087	.472	–	.118	.047	.0394	.0866
	SUFT12R20	SUFT12R20	–	F		★	★	.394	.126	.472	–	.118	.047	.0787	.1260
	SUFT12R30	SUFT12R30	–	F		★	★	.394	.165	.472	–	.118	.047	.1181	.1654
	SUFT16R05	SUFT16R05	–	F		★	★	.472	.083	.630	–	.157	.063	.0197	.0827
	SUFT16R10	SUFT16R10	–	F		★	★	.472	.102	.630	–	.157	.063	.0394	.1024
	SUFT16R15	SUFT16R15	–	F		★	★	.472	.122	.630	–	.157	.063	.0591	.1220
	SUFT16R20	SUFT16R20	–	F		★	★	.472	.142	.630	–	.157	.063	.0787	.1417
	SUFT16R30	SUFT16R30	–	F		★	★	.472	.181	.630	–	.157	.063	.1181	.1811
	SUFT20R05	SUFT20R05	–	F		★	★	.591	.098	.787	–	.197	.079	.0197	.0984
	SUFT20R10	SUFT20R10	–	F		★	★	.591	.118	.787	–	.197	.079	.0394	.1181
	SUFT20R15	SUFT20R15	–	F		★	★	.591	.138	.787	–	.197	.079	.0591	.1378
	SUFT20R20	SUFT20R20	–	F		★	★	.591	.157	.787	–	.197	.079	.0787	.1575
	SUFT20R30	SUFT20R30	–	F		★	★	.591	.197	.787	–	.197	.079	.1181	.1969
	SUFT25R05	SUFT25R05	–	F		★	★	.728	.118	.984	–	.236	.098	.0197	.1181
	SUFT25R10	SUFT25R10	–	F		★	★	.728	.138	.984	–	.236	.098	.0394	.1378
	SUFT25R20	SUFT25R20	–	F		★	★	.728	.177	.984	–	.236	.098	.0787	.1772
	SUFT25R30	SUFT25R30	–	F		★	★	.728	.217	.984	–	.236	.098	.1181	.2165
	SUFT30R05	SUFT30R05	–	F		★	★	.886	.138	1.181	–	.276	.118	.0197	.1378
	SUFT30R10	SUFT30R10	–	F		★	★	.886	.157	1.181	–	.276	.118	.0394	.1575
	SUFT30R20	SUFT30R20	–	F		★	★	.886	.197	1.181	–	.276	.118	.0787	.1969
	SUFT30R30	SUFT30R30	–	F		★	★	.886	.236	1.181	–	.276	.118	.1181	.2362
	SUFT32R05	SUFT32R05	–	F		★	★	.925	.146	1.26	–	.276	.126	.0197	.1457
	SUFT32R10	SUFT32R10	–	F		★	★	.925	.165	1.26	–	.276	.126	.0394	.1772
	SUFT32R20	SUFT32R20	–	F		★	★	.925	.205	1.26	–	.276	.126	.0787	.2047

● : Existencia ★ : Existencia en Japón <SRFT, SUFT : 2 insertos por caja> <SRG, SRM : 10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✠ : Corte Inestable

Honeado :
E : Redondo

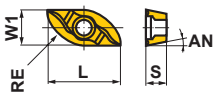
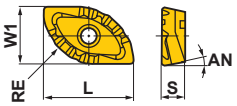
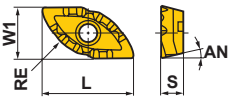
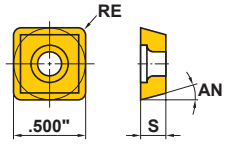
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto			Dimensiones (plgs)				
					MP6120	MP9120	VP15TF	RE	L	W1	S	AN
SRM2 ➲L274 	**SRM212C**	SRM212C	M	E	●	●	●	.375	.748	.385	.169	11°
	SRM216C	SRM216C	M	E	●	●	●	.500	.945	.512	.216	11°
	SRM220C	SRM220C	M	E	●	●	●	.625	1.102	.638	.275	11°
SRM2 ➲L274 	**SRM212E**	SRM212E	M	E	●	●	●	.375	.610	.315	.169	11°
	SRM216E	SRM216E	M	E	●	●	●	.500	.807	.409	.216	11°
	SRM220E	SRM220E	M	E	●	●	●	.625	.964	.520	.275	11°
SRM2 ➲L274 	**SRM210C-M**	SRM210C-M	M	E	●	●	●	.313	.630	.323	.138	11°
	SRM212C-M	SRM212C-M	M	E	●	●	●	.375	.748	.385	.169	11°
	SRM216C-M	SRM216C-M	M	E	●	●	●	.500	.945	.512	.216	11°
	SRM220C-M	SRM220C-M	M	E	●	●	●	.625	1.102	.638	.275	11°
SRM2 ➲L274 	**SRM210E-M**	SRM210E-M	M	E	●	●	●	.313	.531	.258	.138	11°
	SRM212E-M	SRM212E-M	M	E	●	●	●	.375	.610	.315	.169	11°
	SRM216E-M	SRM216E-M	M	E	●	●	●	.500	.807	.409	.216	11°
	SRM220E-M	SRM220E-M	M	E	●	●	●	.625	.964	.520	.275	11°
SRM2 (METRICO) ➲L274 	**SRG16C**	SRG16C	G	E	★	★	★	.315	.630	.323	.138	11°
	SRG20C	SRG20C	G	E	★	★	★	.394	.748	.402	.181	10°
	SRG25C	SRG25C	G	E	★	★	★	.492	.945	.504	.217	10°
	SRG30C	SRG30C	G	E	★	★	★	.591	1.102	.602	.276	10°
	SRG32C	SRG32C	G	E	★	★	★	.630	1.102	.642	.276	10°
SRM2 (METRICO) ➲L274 	**SRG16E**	SRG16E	G	E	★	★	★	.315	.531	.264	.138	11°
	SRG20E	SRG20E	G	E	★	★	★	.394	.610	.335	.181	9°
	SRG25E	SRG25E	G	E	★	★	★	.492	.807	.402	.217	9°
	SRG30E	SRG30E	G	E	★	★	★	.591	.992	.480	.276	9°
	SRG32E	SRG32E	G	E	★	★	★	.630	1.028	.516	.276	9°
SRM2 (METRICO) ➲L274 	**SRM16C-M**	SRM16C-M	M	E	★	★	★	.315	.630	.323	.138	11°
	SRM20C-M	SRM20C-M	M	E	★	★	★	.394	.748	.402	.181	10°
	SRM25C-M	SRM25C-M	M	E	★	★	★	.492	.945	.504	.217	10°
	SRM30C-M	SRM30C-M	M	E	★	★	★	.591	1.102	.602	.276	10°
	SRM32C-M	SRM32C-M	M	E	★	★	★	.630	1.102	.642	.276	10°

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◕ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto						Carburo	Dimensiones (plgs)				
					VP15TF	MP6120	MP9120	MP9130	VP20RT	VP30RT	UP20M	UTi20T	RE	L	W1	S	AN
SRM2 (METRICO) ➲L274 	**SRM16E-M**	SRM16E-M	M	E	★	★	★						.315	.531	.264	.138	11°
	SRM20E-M	SRM20E-M	M	E	★	★	★						.394	.610	.335	.181	9°
	SRM25E-M	SRM25E-M	M	E	★	★	★						.492	.807	.402	.217	9°
	SRM30E-M	SRM30E-M	M	E	★	★	★						.591	.992	.480	.276	9°
	SRM32E-M	SRM32E-M	M	E	★	★	★						.630	1.028	.516	.276	9°
SRM2 40/50 (METRICO) ➲L286 	**SRG40C**	SRG40C	G	E	★				★	★			.787	1.417	.807	.315	11°
	SRG50C	SRG50C	G	E	★				★	★			.984	1.575	1.024	.335	11°
SRM2 40/50 (METRICO) ➲L286 	**SRG40E**	SRG40E	G	E	★				★	★			.787	1.260	.654	.315	11°
	SRG50E	SRG50E	G	E	★				★	★			.984	1.409	.787	.335	11°
TBE1 	**SPMM432A**	SPMT120408-A	M	E							●	●	.031	–	–	.187	11°

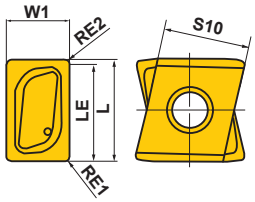
● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones con trat. térmico, Aleaciones de titanio
	H	Acero endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
● : Corte General
✱ : Corte Inestable

Honing :
E : Redondo

VAS400
Cortador Lateral
➔L088



Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto MP6120	Recubierto VP15TF	Dimensiones (plgs) L	LE	S	S10	RE1	RE2	W1
	LNGU130804PNER-M	LNGU130804PNER-M	G	E		●	.512	.480	.315	.433	.016	.031	.315
	LNGU130804PNEL-M	LNGU130804PNEL-M	G	E		●	.512	.480	.315	.433	.016	.031	.315
	LNGU130808PNER-M	LNGU130808PNER-M	G	E		●	.512	.480	.315	.433	.031	.031	.315
	LNGU130808PNEL-M	LNGU130808PNEL-M	G	E		●	.512	.480	.315	.433	.031	.031	.315
	LNGU130812PNER-M	LNGU130812PNER-M	G	E		●	.512	.480	.315	.433	.047	.031	.315
	LNGU130812PNEL-M	LNGU130812PNEL-M	G	E		●	.512	.480	.315	.433	.047	.031	.315
	LNGU130816PNER-M	LNGU130816PNER-M	G	E		●	.512	.480	.315	.433	.063	.031	.315
	LNGU130816PNEL-M	LNGU130816PNEL-M	G	E		●	.512	.480	.315	.433	.063	.031	.315
	LNGU130820PNER-M	LNGU130820PNER-M	G	E		●	.512	.480	.315	.433	.079	.031	.315
	LNGU130820PNEL-M	LNGU130820PNEL-M	G	E		●	.512	.480	.315	.433	.079	.031	.315
	LNGU130824PNER-M	LNGU130824PNER-M	G	E		●	.512	.480	.315	.433	.094	.031	.315
	LNGU130824PNEL-M	LNGU130824PNEL-M	G	E		●	.512	.480	.315	.433	.094	.031	.315
	LNGU130830PNER-M	LNGU130830PNER-M	G	E		●	.512	.449	.315	.433	.118	.063	.315
	LNGU130830PNEL-M	LNGU130830PNEL-M	G	E		●	.512	.449	.315	.433	.118	.063	.315
	LNGU130840PNER-M	LNGU130840PNER-M	G	E		●	.512	.449	.315	.433	.157	.063	.315
	LNGU130840PNEL-M	LNGU130840PNEL-M	G	E		●	.512	.449	.315	.433	.157	.063	.315
	LNGU130850PNER-M	LNGU130850PNER-M	G	E		●	.512	.449	.315	.433	.197	.063	.315
	LNGU130850PNEL-M	LNGU130850PNEL-M	G	E		●	.512	.449	.315	.433	.197	.063	.315
	NEW **LNGU130804PNER-R**	LNGU130804PNER-R	G	E	●	●	.512	.480	.315	.433	.016	.031	.315
	NEW **LNGU130804PNEL-R**	LNGU130804PNEL-R	G	E	●	●	.512	.480	.315	.433	.016	.031	.315
	NEW **LNGU130808PNER-R**	LNGU130808PNER-R	G	E	●	●	.512	.480	.315	.433	.031	.031	.315
	NEW **LNGU130808PNEL-R**	LNGU130808PNEL-R	G	E	●	●	.512	.480	.315	.433	.031	.031	.315
	NEW **LNGU130812PNER-R**	LNGU130812PNER-R	G	E	●	●	.512	.480	.315	.433	.047	.031	.315
	NEW **LNGU130812PNEL-R**	LNGU130812PNEL-R	G	E	●	●	.512	.480	.315	.433	.047	.031	.315
	NEW **LNGU130816PNER-R**	LNGU130816PNER-R	G	E	●	●	.512	.480	.315	.433	.063	.031	.315
	NEW **LNGU130816PNEL-R**	LNGU130816PNEL-R	G	E	●	●	.512	.480	.315	.433	.063	.031	.315
	NEW **LNGU130820PNER-R**	LNGU130820PNER-R	G	E	●	●	.512	.480	.315	.433	.079	.031	.315
	NEW **LNGU130820PNEL-R**	LNGU130820PNEL-R	G	E	●	●	.512	.480	.315	.433	.079	.031	.315
	NEW **LNGU130824PNER-R**	LNGU130824PNER-R	G	E	●	●	.512	.480	.315	.433	.094	.031	.315
	NEW **LNGU130824PNEL-R**	LNGU130824PNEL-R	G	E	●	●	.512	.480	.315	.433	.094	.031	.315
	NEW **LNGU130830PNER-R**	LNGU130830PNER-R	G	E	●	●	.512	.449	.315	.433	.118	.063	.315
	NEW **LNGU130830PNEL-R**	LNGU130830PNEL-R	G	E	●	●	.512	.449	.315	.433	.118	.063	.315
	NEW **LNGU130840PNER-R**	LNGU130840PNER-R	G	E	●	●	.512	.449	.315	.433	.157	.063	.315
	NEW **LNGU130840PNEL-R**	LNGU130840PNEL-R	G	E	●	●	.512	.449	.315	.433	.157	.063	.315
	NEW **LNGU130850PNER-R**	LNGU130850PNER-R	G	E	●	●	.512	.449	.315	.433	.197	.063	.315
Inserto Derecho Mostrado.	NEW **LNGU130850PNEL-R**	LNGU130850PNEL-R	G	E	●	●	.512	.449	.315	.433	.197	.063	.315

● = NEW

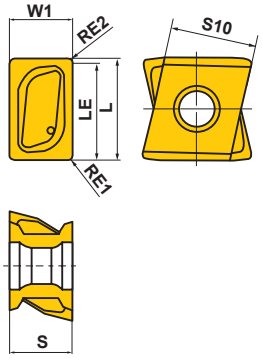
INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones con trat. térmico, Aleaciones de titanio
	H	Acero endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✠ : Corte Inestable

Honing :
E : Redondo

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto		Dimensiones (mm)						
					MP6120	VP15TF	L	LE	S	S10	RE1	RE2	W1
VAS500 Cortador Lateral ➔L092	**LNGU171004PNER-R**	**LNGU171004PNER-R**	G	E	★	★	17.0	16.2	10.0	13.0	0.4	0.8	10.0
	LNGU171004PNEL-R	**LNGU171004PNEL-R**	G	E	★	★	17.0	16.2	10.0	13.0	0.4	0.8	10.0
	LNGU171008PNER-R	**LNGU171008PNER-R**	G	E	★	★	17.0	16.2	10.0	13.0	0.8	0.8	10.0
	LNGU171008PNEL-R	**LNGU171008PNEL-R**	G	E	★	★	17.0	16.2	10.0	13.0	0.8	0.8	10.0
	LNGU171012PNER-R	**LNGU171012PNER-R**	G	E	★	★	17.0	16.2	10.0	13.0	1.2	0.8	10.0
	LNGU171012PNEL-R	**LNGU171012PNEL-R**	G	E	★	★	17.0	16.2	10.0	13.0	1.2	0.8	10.0
	LNGU171016PNER-R	**LNGU171016PNER-R**	G	E	★	★	17.0	16.2	10.0	13.0	1.6	0.8	10.0
	LNGU171016PNEL-R	**LNGU171016PNEL-R**	G	E	★	★	17.0	16.2	10.0	13.0	1.6	0.8	10.0
	LNGU171020PNER-R	**LNGU171020PNER-R**	G	E	★	★	17.0	16.2	10.0	13.0	2.0	0.8	10.0
	LNGU171020PNEL-R	**LNGU171020PNEL-R**	G	E	★	★	17.0	16.2	10.0	13.0	2.0	0.8	10.0
	LNGU171024PNER-R	**LNGU171024PNER-R**	G	E	★	★	17.0	16.2	10.0	13.0	2.4	0.8	10.0
	LNGU171024PNEL-R	**LNGU171024PNEL-R**	G	E	★	★	17.0	16.2	10.0	13.0	2.4	0.8	10.0
	LNGU171030PNER-R	**LNGU171030PNER-R**	G	E	★	★	17.0	15.4	10.0	13.0	3.0	1.6	10.0
	LNGU171030PNEL-R	**LNGU171030PNEL-R**	G	E	★	★	17.0	15.4	10.0	13.0	3.0	1.6	10.0
	LNGU171040PNER-R	**LNGU171040PNER-R**	G	E	★	★	17.0	15.4	10.0	13.0	4.0	1.6	10.0
	LNGU171040PNEL-R	**LNGU171040PNEL-R**	G	E	★	★	17.0	15.4	10.0	13.0	4.0	1.6	10.0
	LNGU171050PNER-R	**LNGU171050PNER-R**	G	E	★	★	17.0	15.4	10.0	13.0	5.0	1.6	10.0
	LNGU171050PNEL-R	**LNGU171050PNEL-R**	G	E	★	★	17.0	15.4	10.0	13.0	5.0	1.6	10.0
	LNGU171060PNER-R	**LNGU171060PNER-R**	G	E	★	★	17.0	15.4	10.0	13.0	6.0	1.6	10.0
	LNGU171060PNEL-R	**LNGU171060PNEL-R**	G	E	★	★	17.0	15.4	10.0	13.0	6.0	1.6	10.0
	LNGU171070PNER-R	**LNGU171070PNER-R**	G	E	★	★	17.0	15.4	10.0	13.0	7.0	1.6	10.0
Inserto Derecho Mostrado.	**LNGU171070PNEL-R**	**LNGU171070PNEL-R**	G	E	★	★	17.0	15.4	10.0	13.0	7.0	1.6	10.0

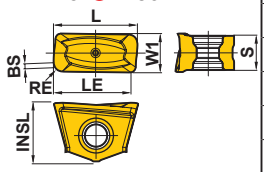
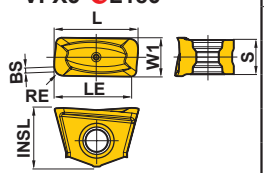
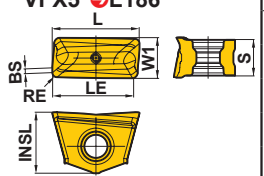
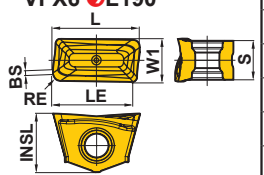
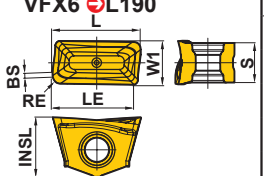
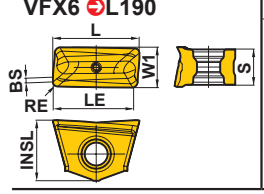


● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo

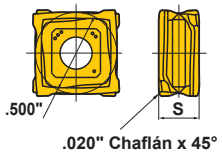
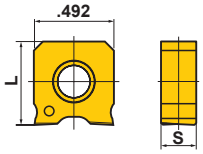
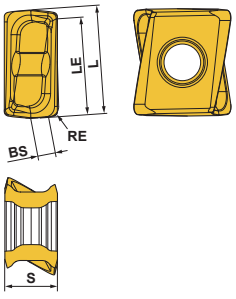
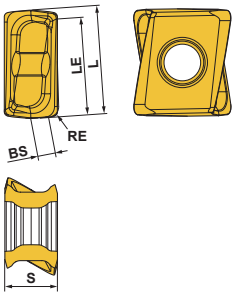
Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto	Dimensiones (plgs)						
					MP9130	L	LE	W1	INSL	S	BS	RE
VFX5 ➲L186 	**XNMU160708R-MS**	XNMU160708R-MS	M	E	●	.630	.528	.276	.437	.256	.039	.031
	XNMU160712R-MS	XNMU160712R-MS	M	E	●	.630	.543	.276	.437	.256	.039	.047
	XNMU160716R-MS	XNMU160716R-MS	M	E	●	.630	.543	.276	.437	.256	.039	.063
	XNMU160724R-MS	XNMU160724R-MS	M	E	●	.630	.543	.276	.437	.256	.039	.094
	XNMU160732R-MS	XNMU160732R-MS	M	E	●	.681	.567	.276	.437	.256	—	.126
	XNMU160740R-MS	XNMU160740R-MS	M	E	●	.744	.598	.276	.437	.256	—	.157
VFX5 ➲L186 	**XNMU160708R-HS**	XNMU160708R-HS	M	E	●	.630	.528	.276	.437	.256	.039	.031
VFX5 ➲L186 	**XNMU160708R-LS**	XNMU160708R-LS	M	E	●	.630	.528	.276	.437	.256	.039	.031
VFX6 ➲L190 	**XNMU190912R-MS**	XNMU190912R-MS	M	E	●	.752	.650	.374	.500	.335	.039	.047
	XNMU190916R-MS	XNMU190916R-MS	M	E	●	.752	.650	.374	.500	.335	.039	.063
	XNMU190924R-MS	XNMU190924R-MS	M	E	●	.752	.654	.374	.500	.335	.039	.094
	XNMU190932R-MS	XNMU190932R-MS	M	E	●	.795	.673	.374	.500	.335	—	.126
	XNMU190940R-MS	XNMU190940R-MS	M	E	●	.858	.701	.374	.500	.335	—	.157
	XNMU190950R-MS	XNMU190950R-MS	M	E	●	.858	.701	.374	.500	.335	—	.197
VFX6 ➲L190 	**XNMU190912R-HS**	XNMU190912R-HS	M	E	●	.752	.650	.374	.500	.335	.039	.047
VFX6 ➲L190 	**XNMU190912R-LS**	XNMU190912R-LS	M	E	●	.752	.650	.374	.500	.335	.039	.047

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✠ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto							Carburo	Dimensiones (plgs)				
					MC5020	MP6120	MP6130	MP7130	MP9120	MP9130	VP15TF	TF15	L	LE	S	BS	RE
VOX400 ➔L076 **Cortador Lateral VOS ➔L094**	**SONX1206PER**	SONX1206PER	N	E	●						●		–	–	.248	–	–
	**SONX1206PEL ***	SONX1206PEL	N	E							★		–	–	.248	–	–
VOX400 ➔L076	**WOEX1206PER5C**	WOEX1206PER5C	E	E							●		.513	–	.217	–	–
																	
VPX200 ➔L124 NEW	**LOGU0904020PNER-L**	LOGU0904020PNER-L	G	E	●	●	●	●	●	●	●		.343	.299	.169	.067	.008
	LOGU0904040PNER-L	LOGU0904040PNER-L	G	E	●	●	●	●	●	●	●		.343	.299	.169	.063	.016
	LOGU0904080PNER-L	LOGU0904080PNER-L	G	E	●	●	●	●	●	●	●		.343	.299	.169	.047	.031
	LOGU0904100PNER-L	LOGU0904100PNER-L	G	E	●	●	●	●	●	●	●		.343	.299	.169	.039	.039
	LOGU0904120PNER-L	LOGU0904120PNER-L	G	E	●	●	●	●	●	●	●		.343	.299	.169	.035	.047
	LOGU0904160PNER-L	LOGU0904160PNER-L	G	E	●	●	●	●	●	●	●		.343	.299	.169	.020	.063
	LOGU0904020PNFR-L	LOGU0904020PNFR-L	G	F								●	.343	.299	.169	.067	.008
	LOGU0904040PNFR-L	LOGU0904040PNFR-L	G	F								●	.343	.299	.169	.063	.016
	LOGU0904080PNFR-L	LOGU0904080PNFR-L	G	F								●	.343	.299	.169	.047	.031
	LOGU0904100PNFR-L	LOGU0904100PNFR-L	G	F								●	.343	.299	.169	.039	.039
	LOGU0904120PNFR-L	LOGU0904120PNFR-L	G	F								●	.343	.299	.169	.035	.047
	**LOGU0904160PNFR-L**	LOGU0904160PNFR-L	G	F								●	.343	.299	.169	.020	.063
Solo inserto derecho.																	
VPX200 ➔L124 NEW	**LOGU0904020PNER-M**	LOGU0904020PNER-M	G	E	●	●	●	●	●	●	●		.343	.299	.169	.067	.008
	LOGU0904040PNER-M	LOGU0904040PNER-M	G	E	●	●	●	●	●	●	●		.343	.299	.169	.063	.016
	LOGU0904080PNER-M	LOGU0904080PNER-M	G	E	●	●	●	●	●	●	●		.343	.299	.169	.047	.031
	LOGU0904100PNER-M	LOGU0904100PNER-M	G	E	●	●	●	●	●	●	●		.343	.299	.169	.039	.039
	LOGU0904120PNER-M	LOGU0904120PNER-M	G	E	●	●	●	●	●	●	●		.343	.299	.169	.035	.047
	LOGU0904160PNER-M	LOGU0904160PNER-M	G	E	●	●	●	●	●	●	●		.343	.299	.169	.020	.063
	LOGU0904020PNFR-M	LOGU0904020PNFR-M	G	F								●	.343	.299	.169	.067	.008
	LOGU0904040PNFR-M	LOGU0904040PNFR-M	G	F								●	.343	.299	.169	.063	.016
	LOGU0904080PNFR-M	LOGU0904080PNFR-M	G	F								●	.343	.299	.169	.047	.031
	LOGU0904100PNFR-M	LOGU0904100PNFR-M	G	F								●	.343	.299	.169	.039	.039
	LOGU0904120PNFR-M	LOGU0904120PNFR-M	G	F								●	.343	.299	.169	.035	.047
	**LOGU0904160PNFR-M**	LOGU0904160PNFR-M	G	F								●	.343	.299	.169	.020	.063
Solo inserto derecho.																	

*Utilizado en VOX400 especiales y cortador lateral VOS.

● = NEW

● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✣ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto									Cermet	Carburo	Dimensiones (plgs)				
					MC5020	MC7020	MP6120	MP6130	MP7130	MP7140	MP9120	MP9130	VP15TF	VP20RT	VP30RT	MX3030	TF15	L	LE	S	BS	RE
VPX300 ➲L140	**LOGU1207020PNER-M**	LOGU1207020PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.118	.008
	LOGU1207040PNER-M	LOGU1207040PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.110	.016
	LOGU1207080PNER-M	LOGU1207080PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.094	.031
	LOGU1207100PNER-M	LOGU1207100PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.091	.039
	LOGU1207120PNER-M	LOGU1207120PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.083	.047
NEW	**LOGU1207160PNER-M**	LOGU1207160PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.067	.063
	LOGU1207200PNER-M	LOGU1207200PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.055	.079
	LOGU1207240PNER-M	LOGU1207240PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.039	.094
	LOGU1207300PNER-M	LOGU1207300PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.020	.118
	LOGU1207320PNER-M	LOGU1207320PNER-M	G	E	●		●	●	●		●	●	●					.488	.445	.276	.012	.126
	LOGU1207020PNFR-M	LOGU1207020PNFR-M	G	F													●	.488	.445	.276	.118	.008
	LOGU1207040PNFR-M	LOGU1207040PNFR-M	G	F													●	.488	.445	.276	.110	.016
	LOGU1207080PNFR-M	LOGU1207080PNFR-M	G	F													●	.488	.445	.276	.094	.031
	LOGU1207100PNFR-M	LOGU1207100PNFR-M	G	F													●	.488	.445	.276	.091	.039
	LOGU1207120PNFR-M	LOGU1207120PNFR-M	G	F													●	.488	.445	.276	.083	.047
	LOGU1207160PNFR-M	LOGU1207160PNFR-M	G	F													●	.488	.445	.276	.067	.063
	LOGU1207200PNFR-M	LOGU1207200PNFR-M	G	F													●	.488	.445	.276	.055	.079
	LOGU1207240PNFR-M	LOGU1207240PNFR-M	G	F													●	.488	.445	.276	.039	.094
	LOGU1207300PNFR-M	LOGU1207300PNFR-M	G	F													●	.488	.445	.276	.020	.118
Solo inserto derecho.	**LOGU1207320PNFR-M**	LOGU1207320PNFR-M	G	F													●	.488	.445	.276	.012	.126
WJX ➲L224	**JOMU140715ZZER-L**	JOMU140715ZZER-L	M	E		●	●	●	●	●	●	●	●		●			–	–	.259	.051	.059
NEW	**JOMU140715ZZER-M**	JOMU140715ZZER-M	M	E		●	●	●	●	●	●	●	●		●			–	–	.261	.051	.059
	JOMU140715ZZER-R	JOMU140715ZZER-R	M	E		●	●	●					●		●			–	–	.266	.051	.059
Solo inserto derecho.																						
WSX445 ➲L018	**SNGU140812ANFR-L**	SNGU140812ANFR-L	G	F													●	–	–	.331	.059	.047
	SNGU140812ANER-L	SNGU140812ANER-L	G	E	●		●	●	●	●	●	●	●			●		–	–	.331	.059	.047
	SNGU140812ANER-M	SNGU140812ANER-M	G	E	●		●	●	●	●	●	●	●			●		–	–	.331	.059	.047
	SNMU140812ANER-M	SNMU140812ANER-M	M	E	●		●	●	●	●	●	●	●			●		–	–	.331	.059	.047
	SNMU140812ANER-R	SNMU140812ANER-R	M	E	●		●	●					●					–	–	.331	.059	.047
	SNMU140812ANER-H	SNMU140812ANER-H	M	E	●		●	●					●					–	–	.331	.059	.047
	NEW **SNGU140812ANFL-L**	SNGU140812ANFL-L	G	F													●	–	–	.331	.059	.047
	NEW **SNGU140812ANEL-L**	SNGU140812ANEL-L	G	E	●		●	●					●			●		–	–	.331	.059	.047
	SNGU140812ANEL-M	SNGU140812ANEL-M	G	E	●		●	●					●			●		–	–	.331	.059	.047
	SNMU140812ANEL-M	SNMU140812ANEL-M	M	E	●		●	●					●			●		–	–	.331	.059	.047
	SNMU140812ANEL-R	SNMU140812ANEL-R	M	E	●		●	●					●					–	–	.331	.059	.047

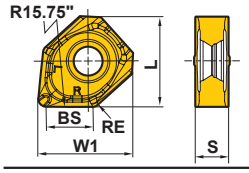
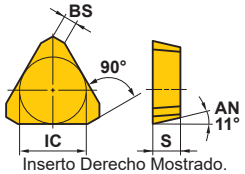
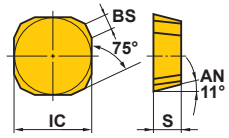
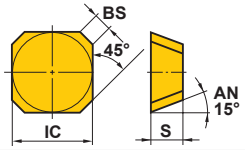
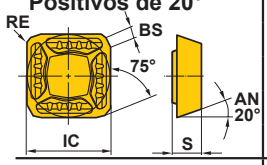
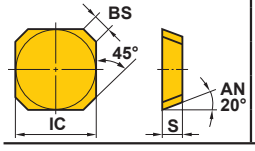
● = NEW

INSERTOS DE FRESADO

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◐ : Corte General
✱ : Corte Inestable

Honeado :
E : Redondo **F** : Filo Vivo
T : Chaflán

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7010	Recubierto F7030	Recubierto MC5020	Recubierto MP6120	Recubierto VP15TF	Recubierto UP20M	Cermet NX2525	Cermet MX3020 (NEW)	Cermet NX4545	Carburo UTi20T	Carburo HTi10	L	W1	IC	S	BS	RE
WSX445 ➔L018 	**WNGU1406ANEN8C-M**	WNGU1406ANEN8C-M	G	E			●	●	●			●				.664	.664	—	.236	.315	.039
Angulo de ataque 0° Positivos de 11°  Inserto Derecho Mostrado.	**TPKN32PPR**	TPKN1603PPR	K	T ✱1	●				★	●	●		●	●	●	—	—	.375	.125	.047	—
	TPKN43PDR	TPKN2204PDR	K	T ✱1	●				●	●	●		●	●	●	—	—	.500	.187	.055	—
Angulo de ataque 15° Positivos de 11° 	**SPKN42EDR**	SPKN1203EDR	K	T ✱2	●	●		●			●			●	●	—	—	.500	.125	.055	—
	SPKN53EDR	SPKN1504EDR	K	T ✱2					★	●	★			●	●	—	—	.625	.187	.055	—
Angulo de ataque 45° Positivos de 15° 	**SDEN42AEN**	SDEN1203AEN	E	T								★				—	—	.500	.125	.047	—
	SDKN42AEN	SDKN1203AEN	K	T	★				★		★			★		—	—	.500	.125	.047	—
	SDKN42AETN	SDKN1203AETN	K	T								★				—	—	.500	.125	.047	—
	SDKN53AETN	SDKN1504AETN	K	T								★				—	—	.625	.187	.047	—
Angulo de ataque 45° Positivos de 20° 	**SEER43AFEN-JS**	SEER1204AFEN-JS	E	E	●											—	—	.500	.187	.055	.039
Angulo de ataque 45° Positivos de 20° 	**SEKN42AGTN**	SEKN1203AGTN	K	T								★				—	—	.500	.125	.067	.039

✱1 F7030 son tipo de honeado “E”.
✱2 HTi10 son tipo de honeado “F”.

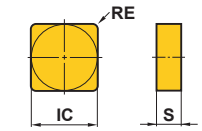
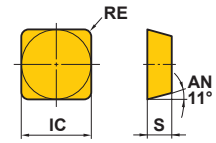
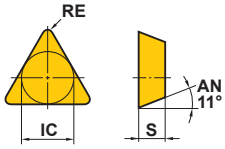
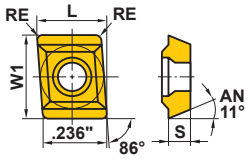
● = NEW

● : Existencia ★ : Existencia en Japón
<10 insertos por caja>

Material		
	P	Acero
	M	Acero Inoxidable
	K	Fundición
	N	Metales no ferrosos
	S	Aleaciones Termoresistentes, Aleaciones de Titanio
	H	Acero Endurecido

Condiciones de Corte (Guía) :
● : Corte Estable
◔ : Corte General
✱ : Corte Inestable

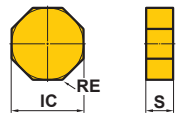
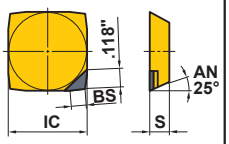
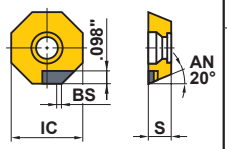
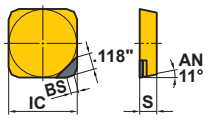
Honeado :
E : Redondo **F** : Filo Vivo
T : Chaflán

Geometría	Descripción	Descripción (ISO)	Clase	Honeado	Recubierto F7030	Recubierto MC5020	Recubierto VP15TF	Recubierto UP20M	Cermet NX2525	Carburo UTi20T	Carburo HTi10	Dimensiones (plgs) L	W1	IC	S	RE
Negativos 	**SNMN432**	SNMN120408	M	E		★			★	★	★	–	–	.500	.187	.031
	SNMN433	SNMN120412	M	E		★			★	★		–	–	.500	.187	.047
Positivos de 11° 	**SPMN421**	SPMN120304	M	E ✱1			★			★	★	–	–	.500	.125	.016
	SPMN421T	SPMN120304T	M	T					★			–	–	.500	.125	.016
	SPMN422	SPMN120308	M	E	★		●			●	●	–	–	.500	.125	.031
	SPMN423	SPMN120312	M	E ✱1	★		★			★	★	–	–	.500	.125	.047
	SPMN432	SPMN120408	M	E		★				★	★	–	–	.500	.187	.031
	SPMN433	SPMN120412	M	E		★				●		–	–	.500	.187	.047
	SPMN532	SPMN150408	M	E						★		–	–	.625	.187	.031
Positivos de 11° 	**TPMN321**	TPMN160304	M	E ✱2	★		●	★	★	●	●	–	–	.375	.125	.016
	TPMN322	TPMN160308	M	E ✱2	★		●	★	★	●	●	–	–	.375	.125	.031
	TPMN323	TPMN160312	M	E ✱1				★			●	–	–	.375	.125	.047
	TPMN431	TPMN220404	M	E						●		–	–	.500	.187	.031
	TPMN432	TPMN220408	M	E ✱1	★		●	★		●	★	–	–	.500	.187	.031
	TPMN433	TPMN220412	M	E ✱1	★		★			●	●	–	–	.500	.187	.047
	**JPMT060204-E**	JPMT060204-E	M	E			★	★				.276	.313	–	.094	.016

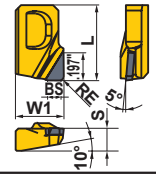
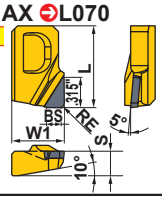
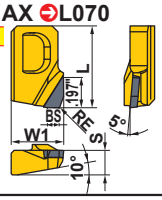
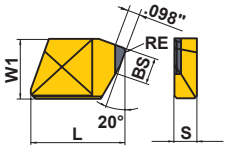
✱1 HTi10 son tipo de honeado “F”.
✱2 HTi10 son tipo de honeado “F”, NX2525 son tipo de honeado “T”.

CBN Y PCD

Material		
K	Fundición	
N	Metales no ferrosos	

Geometría	Descripción	Descripción (ISO)	Clase	CBN			PCD		Dimensiones (plgs)					
				MB710	MB730	BC5030	MD220	MD2030	L	W1	IC	S	BS	RE
AOX445 ➲**L069** 	**SL-ONEN120404ASN**	SL-ONEN120404ASN	E		★				–	–	.500	.187	–	.016
BF407 	**SFCN42ZFFR2**	SFCN1203ZFFR2	C				●		–	–	.500	.125	.094	–
BOE ➲**L256** 	**OEMX12T3ETR1**	OEMX12T3ETR1	M	●					–	–	.500	.156	.039	–
	OEMX12T3ETR5	OEMX12T3ETR5	M	●					–	–	.500	.156	.197	–
FBP415 	**SPEN42EETR1**	SPEN1203EETR1	E	★					–	–	.500	.125	.055	–

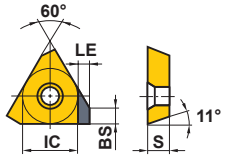
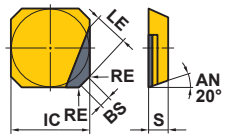
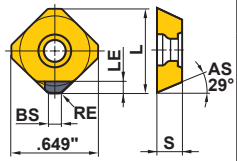
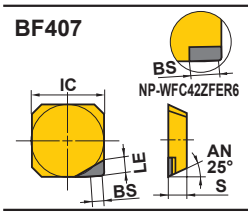
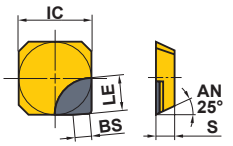
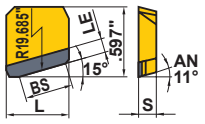
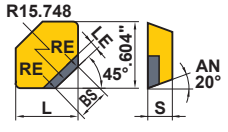
● : Existencia ★ : Existencia en Japón
<1 insertos por caja>

Material													
	K	Fundición											
	N	Metales no ferrosos											
Geometría	Descripción	Descripción (ISO)	Clase	CBN			PCD		Dimensiones (plgs)					
				MB710	MB730	BC5030	MD220	MD2030	L	W1	IC	S	BS	RE
FMAX L070 	**GOER1404PXFR2**	GOER1404PXFR2	E				●	●	.551	.354	–	.165	.079	.016
	GOER1408PXFR2	GOER1408PXFR2	E				●	●	.551	.354	–	.165	.079	.031
FMAX L070 NEW 	**GOER1408PXFR2-8**	GOER1408PXFR2-8	E				●		.551	.354	–	.165	.079	.031
FMAX L070 NEW 	**GOER1401ZXFR2**	GOER1401ZXFR2	E				●		.551	.354	–	.165	.079	.004
NF10000 	**NP-GDCN2004PDSR3**	NP-GDCN2004PDSR3	C	★					.787	.500	–	.187	–	.031

● = NEW

CBN Y PCD CON WIPER

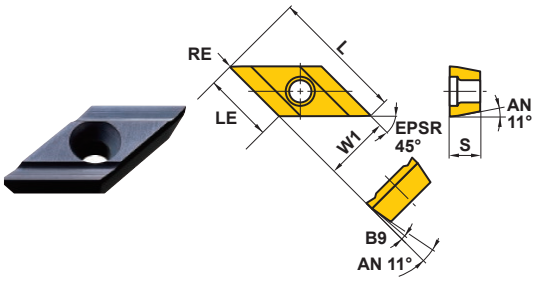
Material		
	K	Fundición
	N	Metales no ferrosos

Geometría	Descripción	Descripción (ISO)	Clase	CBN	PCD	Dimensiones (plgs)					
				MB710 MB730	MD220	L	IC	LE	S	BS	RE
PMF ➲L290 	**TPEW1303ZPTR2**	TPEW1303ZPTR2	E	●		–	.313	.059	.125	.079	–
SE445 	**SECN42AFFR1**	SECN1203AFFR1	C		●	–	.500	.197	.125	.055	.039
ASX445 ➲L030 	**NP-WEEW13T3AGFR3C**	NP-WEEW13T3AGFR3C	E		●	.654	–	.071	.156	.118	.059
	NP-WEEW13T3AGTR3C	NP-WEEW13T3AGTR3C	E	●		.654	–	.071	.156	.118	.059
BF407 	**NP-WFC42ZFER2**	NP-WFC42ZFER2	C		●	–	.500	.118	.125	.094	–
	NP-WFC42ZFER6	NP-WFC42ZFER6	C		●	–	.500	.130	.125	.236	–
BF407 	**WFC42ZFER2**	WFC42ZFER2	C		★	–	.500	.244	.125	.094	–
FBP415 	**WPC42EETR10C**	WPC42EETR10C	C	●		.500	–	.098	.125	.394	–
SE445 	**WEC42AFFR5C**	WEC42AFFR5C	C		●	.500	–	.087	.125	.197	.039
	WEC42AFTR5C	WEC42AFTR5C	C	●		.500	–	.087	.125	.197	.039

● : Existencia ★ : Existencia en Japón
<1 insertos por caja, TAWC : 10 insertos por caja>

INSERTOS DE BARRENADO

Inserto para módulo de chaflanado de broca TAW

Tipo Geometría	Descripción	Recubierto		Dimensiones (mm)					
		VP15TF		L	LE	WI	S	RE	B9
	**TAWC12T301-45GM**	★		17.4	9.05	8.5	3.97	0.1	5°