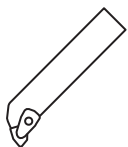


# Herramientas de corte

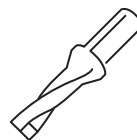
Catálogo de herramientas de corte de KORLOY



Torneado



Fresado



Taladrado



Fresas enterizas

A close-up photograph of a metal drill bit in motion, creating a blurred effect. The drill bit is positioned on the left side of the frame. Numerous small, metallic shavings are scattered across the dark background, indicating the cutting process. The lighting highlights the metallic texture of the drill bit and the shavings.

Diversidad en piezas de trabajo

**HERRAMIENTAS DE CORTE DE KORLOY**

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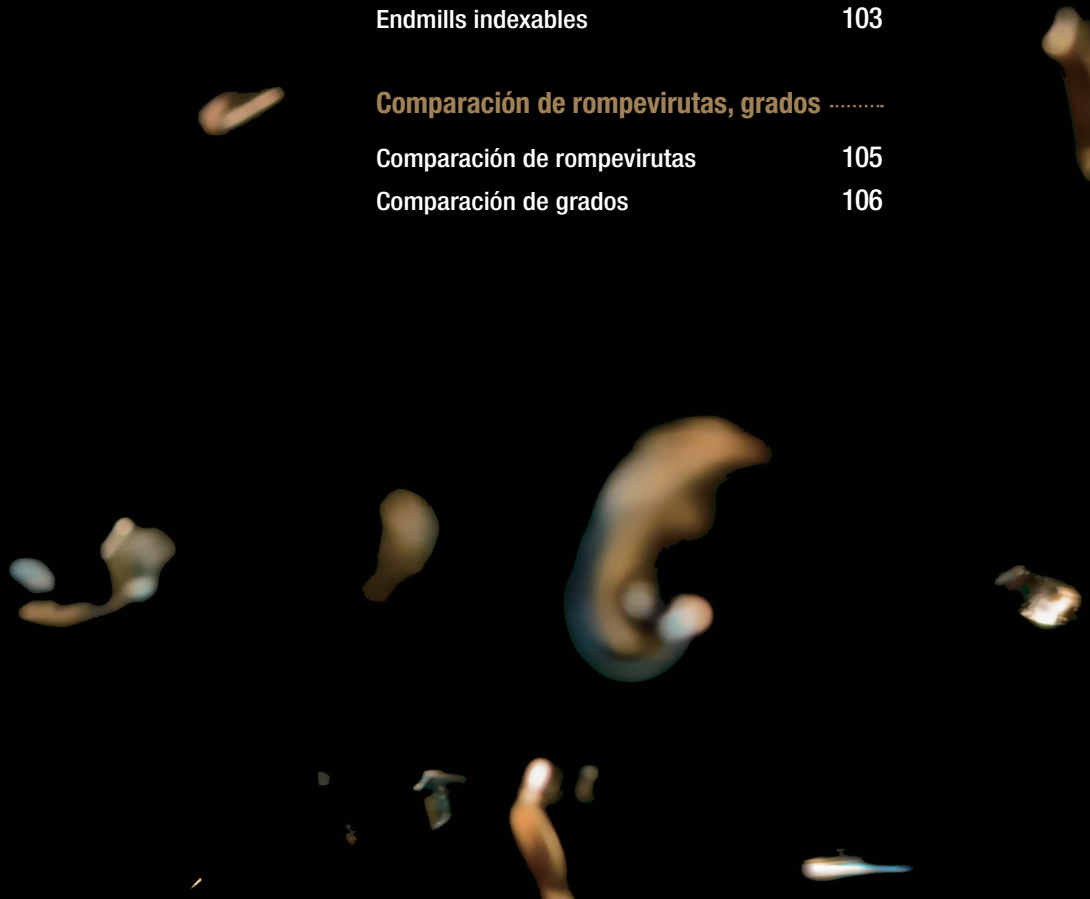
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# Grados / Rompevirutas

Los nuevos grados de Korloys están diseñados con sustratos óptimos para cada aplicación y están recubiertos con PVD para alta temperatura, alta dureza y resistencia a la oxidación, o recubiertos con CVD para alta temperatura y resistencia al desgaste. Además, el tratamiento mejorado posterior al recubrimiento proporciona acabados superficiales superiores para garantizar los más altos niveles de calidad y productividad.

Insertos

Herramientas para torneado

Herramientas para fresado

Fresas integrales / Brocas

Comparación de rompevirutas, grados

- Selección de grados de KORLOY
- Grados CVD
- Grados PVD
- Grados cermet
- Grados de carburo sin recubrimiento
- Grados cBN
- Grados PCD
- Rompevirutas

# Selección de grados de KORLOY

## Torneado

Pieza de trabajo	P					M				K				S				N				H				
ISO	P01	P10	P20	P30	P40	P50	M10	M20	M30	M40	K01	K10	K20	K30	S01	S10	S20	S30	N01	N10	N20	N30	H01	H10	H20	H30
Carburo recubierto			NC3215					PC8105					NC6310 <i>new</i>			PC8105				ND3000 <i>new</i>					PC8105	
			NC3225					PC8110					NC6315 <i>new</i>			PC8110				PD1005 <i>new</i>					PC8110	
			NC3120					NC9115 <i>new</i>					NC5330			PC8115				PD1010 <i>new</i>					PC8115	
			NC3030					NC9125 <i>new</i>					NC5330			NC9125 <i>new</i>				PD1010 <i>new</i>					PC8115	
			NC5330					NC9135 <i>new</i>					PC5300			NC9135 <i>new</i>										
			PC5300					PC5300					PC5400			PC5300										
			PC5400					PC9030								PC5400				PC5400						
								PC5400																		
Cermet		CC1500 <i>new</i>											CC1500 <i>new</i>													
		CC2500 <i>new</i>											CC2500 <i>new</i>													
		CN1500											CN1500													
		CN2000																								
		CN2500											CN2500													
cBN / PCD													DBN700			DBN700				DP90					DNC100	
													DBN800							DP150					DNC250	
													DBN500							DP200					DNC400	
																									DNC350	
Carburo sin recubrir		ST10						U20					H01			H01				H01					H01	
			ST20										H05			H05				H05						
			ST30A										G10													

## Fresado

Pieza de trabajo	P					M				K				S				N				H				
ISO	P10	P20	P30	P40	P50	M10	M20	M30	M40	K01	K10	K20	K30	K40	S10	S20	S30	S40	N01	N10	N20	N30	H01	H10	H20	H30
Carburo recubierto			NC5330					NC5330				PC6510							ND3000 <i>new</i>					PC2005		
			PC3600					PC5300				NC5330			PC5300				PD1005 <i>new</i>					PC2505 <i>new</i>		
			PC3700 <i>new</i>					PC9530				PC5300			PC5400				PD1010 <i>new</i>					PC2010		
			NCM535					PC5400				NCM535 <i>new</i>			PC9540 <i>new</i>				PC9540 <i>new</i>					PC2510 <i>new</i>		
			PC5300					PC9540 <i>new</i>				PC5400												PC2015		
			NCM545 <i>new</i>									NCM545 <i>new</i>												PC210F		
			PC5400																							
Cermet			CN2000																							
			CN30																					DP200		
cBN / PCD																			DP150					DBN500		
Carburo sin recubrir		ST20						U20				H01												H01		
			ST30A									H05												H05		
												G10														

# Selección de grados de KORLOY

## ➤ Fresado con fresa integral

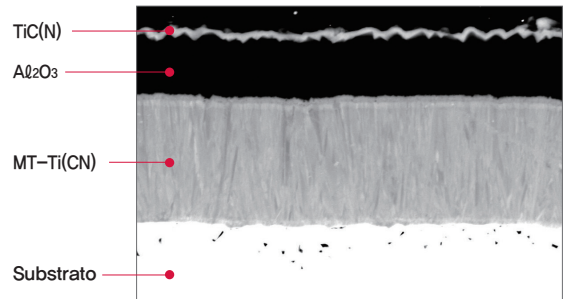
Pza.Trabajo	Grado	ISO	Rango de aplicación
P Acero	PC303S	P01	
	PC310U	P10	PC303S PC203F
	PC315F	P20	PC310U
	PC320	P30	PC315E PC320 PC215F
M Acero inoxidable	PC303S	M01	
	PC310U	M10	PC303S PC203F PC310U
	PC320S	M20	PC320S
	PC315E	M30	PC315E PC320 PC215F
K Fundición	PC303S	K01	
	PC310U	K10	PC303S PC203F PC310U
	PC315E	K20	PC315E PC320 PC215F
	PC320	K30	PC315E PC320 PC215F
N No Ferrosos	ND3000 <sup>new</sup>	N01	ND3000 <sup>new</sup>
	ND2100 <sup>new</sup>	N05	ND2100 <sup>new</sup> PD1005 <sup>new</sup>
	PD3000	N10	PD1010 <sup>new</sup> H01 H05S
	H01	N20	PC210C
S Aleaciones termorresistentes	PC210	S10	PC210 PC320S PC315E PC320 PC215F
	PC320S	S20	PC210 PC320S PC315E PC320 PC215F
	PC315E	S30	PC315E PC320 PC215F
H Endurecido	PC303S	H01	
	PC203F	H10	PC303S PC203F PC310U
	PC310U	H20	PC310U

## ➤ Taladrado

Pza.Trabajo	Grado	ISO	Rango de aplicación
P Acero	PC215G	P01	
	PC315G	P10	
	PC325U	P20	PC215G PC315G PC325U PC230F
	PC230F	P30	PC215G PC315G PC325U PC230F
M Acero inoxidable	PC215G	M01	
	PC315G	M10	PC215G PC315G
	PC325U	M30	PC205F
K Fundición	PC215G	K01	
	PC315G	K10	
	PC205F	K20	PC215G PC315G PC205F
	PC325U	K30	PC215G PC315G PC205F
N No Ferrosos	ND2100 <sup>new</sup>	N05	ND2100 <sup>new</sup>
	FG2	N10	ND2100 <sup>new</sup> FG2 FA1
		N20	FG2 FA1
S Aleaciones termorresistentes	PC325T <sup>new</sup>	S20	PC325T <sup>new</sup>
		S30	PC325T <sup>new</sup>

## Características

- La nueva tecnología de recubrimiento otorga una estructura cristalina especial consiguiendo una tenacidad superior
- El múltiple recubrimiento de nuestros grados proporciona una mayor resistencia al desgaste



Sección transversal de inserto con recubrimiento CVD

## Guía de selección de grados

### ⊗ Torneado

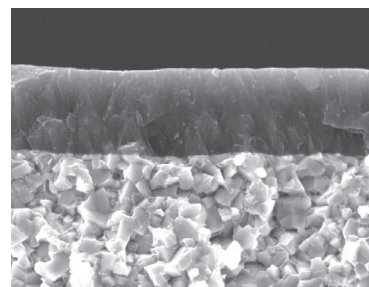
Pza.Trabajo	Tipo de maquinado	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación	
P	Acero	Corte continuo	NC3215	295 (170 ~ 420)	P10	
		Corte interrumpido	NC3225	260 (150 ~ 370)	P15	NC3215
	NC3120		260 (120 ~ 370)	P20	NC3225	
	NC3030		205 (120 ~ 290)	P25	NC3120	
	NC5330	205 (120 ~ 290)	P30	NC3030		
M	Acero inoxidable	Corte continuo	NC9115 <sup>new</sup>	240 (220 ~ 260)	M10	NC9115 <sup>new</sup>
		Corte interrumpido	NC9125 <sup>new</sup>	210 (190 ~ 230)	M20	NC9125 <sup>new</sup>
	Corte continuo	NC9135 <sup>new</sup>	180 (160 ~ 200)	M30	NC5330	
		NC9135 <sup>new</sup>	180 (160 ~ 200)	M40	NC9135 <sup>new</sup>	
K	Fundición	Corte continuo	NC6310 <sup>new</sup>	380 (300 ~ 500)	K10	NC6310 <sup>new</sup>
		Corte interrumpido	NC6315 <sup>new</sup>	280 (200 ~ 400)	K20	NC6315 <sup>new</sup>
	NC5330	190 (110 ~ 270)	K30	NC5330		
S	Aleaciones termorresistentes	Corte continuo	NC9125 <sup>new</sup>	40 (20 ~ 60)	S10	NC9125 <sup>new</sup>
		Corte interrumpido	NC9135 <sup>new</sup>	40 (20 ~ 60)	S20	NC9135 <sup>new</sup>

### ⊗ Fresado

Pza.Trabajo	Tipo de maquinado	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación	
P	Acero	Corte continuo	NC5330	200 (150 ~ 250)	P20	NC5330
		Corte continuo	NCM535 <sup>new</sup>	300 (200 ~ 400)	P25	NCM535 <sup>new</sup>
	Corte interrumpido	NCM545 <sup>new</sup>	200 (150 ~ 250)	P30	NCM535 <sup>new</sup>	
M	Acero inoxidable	Corte continuo	NC5330	150 (120 ~ 180)	M10	NC5330
		Corte continuo	NCM535 <sup>new</sup>	130 (100 ~ 150)	M20	NCM535 <sup>new</sup>
	Corte interrumpido	NCM545 <sup>new</sup>	110 (90 ~ 130)	M25	NCM545 <sup>new</sup>	
K	Fundición	Corte continuo	NC5330	200 (150 ~ 250)	M30	NC5330
		Corte continuo	NCM535 <sup>new</sup>	250 (200 ~ 300)	M35	NCM535 <sup>new</sup>
				M40	NCM545 <sup>new</sup>	
				K10	NC5330	
				K20	NCM535 <sup>new</sup>	
				K30	NCM545 <sup>new</sup>	

## Características

- La tecnología de recubrimiento PVD tiene ventajas inherentes, como una superior resistencia al astillado de la película recubierta mientras se mantiene la tenacidad del sustrato. Por lo tanto, es posible aumentar significativamente la vida útil de la herramienta
- Los recubrimientos PVD aseguran bordes de corte afilados sin embotar el sustrato.
- Las películas recubiertas a base de Ti pueden proporcionar un excelente acabado superficial y un mecanizado de alta precisión. a la baja afinidad de la película de Ti con la pieza de trabajo



Vista en seccion transversal de recubrimiento PVD

## Ventajas de los grados PVD

- Recubrimiento TiAlN, óptimo para mecanizado de alta velocidad
- Tenacidad de la capa TiAlN ha sido mejorada para reducir la fragilidad de TiAlN convencional
- La capa externa de TiN reduce la fricción y mejora la uniformidad de la superficie
- Fácil de reconocer la cantidad de desgaste en el filo

## Guía de selección de grados

### Torneado

Pza.Trabajo	Tipo de maquinado	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación	
P	Acero	Corte continuo	PC5300	175 (100 ~ 250)	P30	PC5300
		Corte interrumpido	PC5400	145 (80 ~ 120)	P40	PC5400
M	Acero inoxidable	Corte continuo	PC8105	175 (120 ~ 230)	M01	PC8105
			PC8110	160 (110 ~ 210)	M10	PC8110
		Corte interrumpido	PC8115	150 (100 ~ 200)	M20	PC8115
			PC5300	135 (80 ~ 190)	M30	PC5300
			PC9030	130 (80 ~ 180)	M40	PC9030
			PC5400	110 (80 ~ 140)	M50	PC5400
S	Aleaciones termorresistentes	Corte continuo	PC8105	55 (40 ~ 70)	S01	PC8105
			PC8110	50 (35 ~ 65)	S10	PC8110
			PC8115	45 (30 ~ 60)	S20	PC8115
		Corte interrumpido	PC5300	40 (20 ~ 60)	S30	PC5300
			PC5400	35 (20 ~ 50)	S40	PC5400
			PC8105	110 (80 ~ 140)	H01	PC8105
H	Endurecido	Corte interrumpido	PC8110	100 (70 ~ 130)	H05	PC8110
			PC8115	90 (65 ~ 115)	H10	PC8115

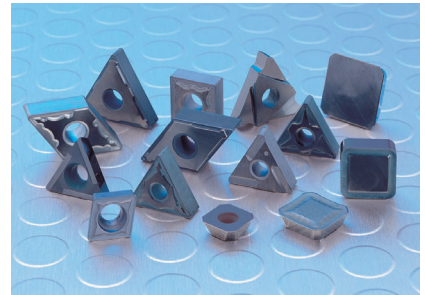
### Fresado

Pza.Trabajo	Tipo de maquinado	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación	
P	Acero	Corte continuo	PC3600	235 (180 ~ 290)	P20	PC3600
		PC3700	235 (180 ~ 290)	P30	PC3700 <sup>new</sup>	
	Corte interrumpido	PC5300	195 (150 ~ 240)	P40	PC5300	
		PC5400	145 (80 ~ 210)		PC5400	
M	Acero inoxidable	Corte continuo	PC5300	130 (100 ~ 160)	M20	PC5300
		PC9530	130 (100 ~ 160)	M30	PC9530	
		Corte interrumpido	PC5400	120 (95 ~ 155)	M40	PC5400
			PC9540	110 (80 ~ 140)	M50	PC9540 <sup>new</sup>
K	Fundición	Corte continuo	PC6510	180 (140 ~ 230)	K05	PC6510
		Corte interrumpido	PC5300	145 (110 ~ 180)	K20	PC5300
			PC5400	125 (85 ~ 160)	K30	PC5400
S	Aleaciones termorresistentes	Corte continuo	PC5300	55 (40 ~ 70)	S10	PC5300
		Corte interrumpido	PC5400	40 (30 ~ 50)	S30	PC5400
			PC9540	40 (30 ~ 50)	S40	PC9540 <sup>new</sup>
H	Endurecido	Corte continuo	PC2005	60 (40 ~ 80)	H01	PC2005
			PC2010	55 (40 ~ 70)	H10	PC2010
			PC2015	50 (35 ~ 65)	H20	PC2015
			PC210F	50 (35 ~ 65)	H30	PC210F



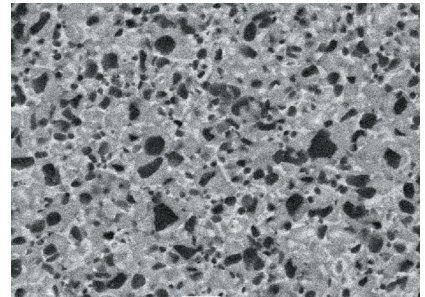
## Características

- Los grados Cermet de KORLOY son del tipo carbonitruro, los cuales poseen una microestructura ultra fina, conseguida con la adición de los compuestos TiN y TiCN. Estos grados cermet también presentan una tenacidad superior, así como resistencia térmica y resistencia al desgaste.



## Ventajas

- Los grados cermet KORLOY tienen como componente principal el TiCN, presentando una mayor dureza que los grados de carburo cementado. Por otro lado, también presentan una menor afinidad con las piezas de trabajo con componentes féreos



Microestructura de Cermet

### Comparados con los carburos no recubiertos, los cermets presentan las siguientes características:

- Mayor velocidad: debido a que los cermets presentan una resistencia superior al desgaste y una resistencia al cráter superior, al maquinarse con grados cermet puede obtenerse una mayor velocidad
- La baja afinidad de los cermets con los materiales féreos permite maquinarse con distintas velocidades -tanto altas como bajas-, así como un acabado excelente
- Vida útil de herramienta excepcionalmente alta: incluso en maquinados a alta velocidad la durabilidad y vida útil de las herramientas se ve aumentada

### Comparado con grados de carburo recubierto

- Adecuado para el corte ligero y acabado
- Se puede adquirir una mejor resistencia al desgaste y un mayor acabado superficial en la misma condición de corte

## Guía de selección de grados

### ⦿ Torneado

Pza.Trabajo	Tipo de maquinado	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación
P Acero	Corte continuo	CN1500	250 (150~350)	P10	
	Corte interrumpido	CN2500	220 (130~300)	P20	
				P30	

### ⦿ Torneado (Grados de Cermet recubierto)

Pza.Trabajo	Tipo de maquinado	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación
P Acero	Corte continuo	CC1500 <sup>new</sup>	325 (200~450)	P10	
	Corte interrumpido	CC2500 <sup>new</sup>	265 (180~350)	P20	
				P30	

### ⦿ Fresado

Pza.Trabajo	Tipo de maquinado	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación
P Acero	Corte continuo	CN2000	250 (200~300)	P20	
	Corte interrumpido	CN30	150 (100~200)	P30	

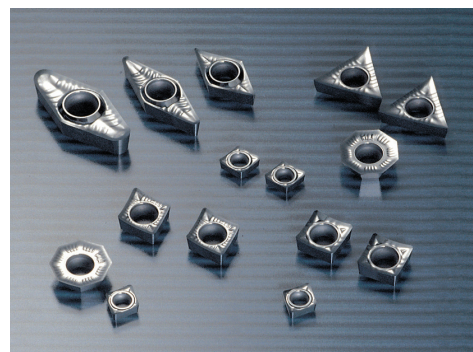
## Grados de carburo sin recubrimiento

### Características

- Gracias a la avanzada tecnología de sinterizado que utiliza KORLOY, los grados de carburo sin recubrimiento presentan una microestructura compacta y muy fina, necesaria para obtener herramientas de calidad superior

### Ventajas

- Los grados de carburo P, M y K pueden ser empleados para el maquinado de cualquier tipo de Pza. Trabajo
- Excelente calidad en maquinado con refrigerante, gracias a la resistencia del carburo al agrietamiento térmico
- Gracias al diseño especial, cuenta con una micro estructura fina y baja afinidad con la Pza. Trabajo
- Tiene una excelente dureza



### Aplicación Principal

Pieza de trabajo	composición	Características	Pieza de trabajo
P	WC-TiC-TaC-Co	Excelente resistencia al choque térmico y a la deformación plástica	Acero al carbon, Aleación de Acero, Acero Inoxidable
M	WC-TiC-TaC-Co	Grados de amplia cobertura con excelente resistencia al choque térmico	Acero al carbon, Aleación de Acero, Acero Inoxidable, Acero fundido
K	WC-Co	Grados duros y fuertes	Fundición, Metales No-Ferrosos, Plásticos, Acrílico, etc
S	WC-Co	Excelente resistencia al desgaste y al despostillamiento	Aleación de titanio

### Propiedades físicas de los grados de carburo sin recubrimiento

Pieza de trabajo	Grado	Dureza (HRA)	TRS (kgf/mm <sup>2</sup> )	Modulo de Young's (10 <sup>3</sup> kgf/mm <sup>2</sup> )	Expansión Térmica coeficiente (10 <sup>-6</sup> /°C)	Conductividad Térmica (cal/cm · sec·°C)
P	ST10	92.1	175	48	6.2	25
	ST20	91.9	200	56	5.2	45
	ST30A	91.3	230	53	5.2	-
M	U20	91.1	210	-	-	88
	ST30A	91.3	230	53	5.2	-
K	H01	92.9	210	66	4.7	109
	G10	90.9	250	63	-	105
S	H01	92.9	210	66	4.7	109
	H05	91.8	250	-	-	-

1KPa = 102kgf/m<sup>2</sup>, 1w/mk = 2.39x10<sup>-3</sup>cal/cm·sec·°C

## Guía de selección de grados

### ☉ Torneado

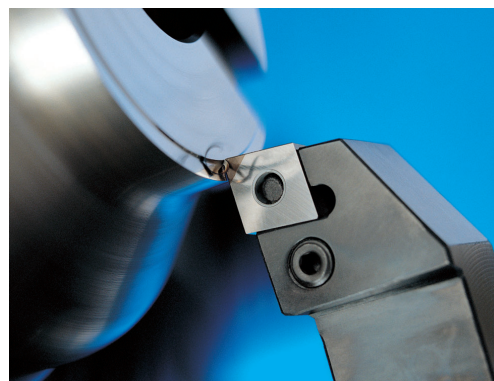
Pza.Trabajo	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación
P	Acero	ST10	P10	ST10
		ST20	P20	ST20
		ST30A	P30	U20 ST30A
M	Acero inoxidable	U20	M25	
K	Fundición	H01	K01	H01
		H05	K10	H05
		G10	K20	G10
N	Aleaciones de aluminio	H01	N10	H01
	Aleaciones de cobre	H05	N20	H05
S	Aleaciones termorresistentes	H01	S01	H01
		H05	S10	H05
H	Endurecido	H01	H10	H01

### ☉ Fresado






Pza.Trabajo	Grado recomendado	Velocidad de corte recomendada (m/min)	ISO	Rango de aplicación
P	Acero	ST30A	P30	ST30A
M	Acero inoxidable	U20	M20	U20
			M30	
K	Fundición	H01, H05	K10	H01 H05
		G10	K20	G10
N	Aleaciones de aluminio	H01	N10	H01
	Aleaciones de cobre	H05	N20	H05

## Características

- El cBN es un material usado en las herramientas de corte industrial fabricado en condiciones de muy alta presión y temperatura. Las herramientas cBN son adecuadas para mecanizados a altas velocidades y en las que se requieran una gran precisión. Los grados cBN son perfectos para maquinar aceros templados y fundición. El mecanizado con cBN puede reemplazar eficazmente el proceso de rectificación convencional.

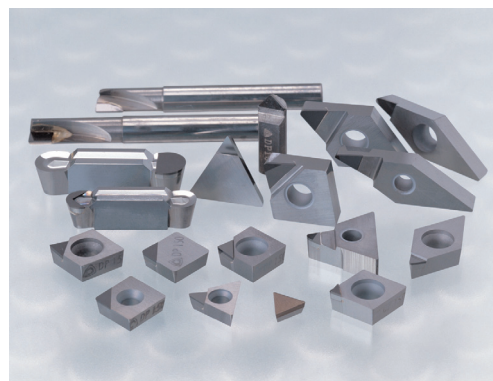


### ⌚ Condiciones de corte de los grados cBN

ISO	Grado	Color de inserto	Aplicación	Velocidad de corte, vc (m/min)						Avance, fn (mm/rev)	Profundidad de corte	
				50	100	150	200	250	300			
Aceros tratado térmicamente	Recubierto	DNC100 <sup>new</sup> 	Corte continuo a altas velocidades				180	████████████████████		300	0.03~0.3	0.03~0.3
		DNC250 	Corte continuo y con interrupción baja a altas velocidades			120	████████████████████		220	0.05~0.3	0.05~0.3	
		DNC350 	Corte con interrupción alta y media	90	████████████████████		150			0.05~0.3	0.05~0.3	
		DNC400 <sup>new</sup> 	Corte con interrupción media y baja a altas velocidades	90	████████████████████		220			0.05~0.3	0.05~0.5	
	Sin recubrir	DBNX10		Corte continuo a altas velocidades			150	████████████████████		200	0.03~0.13	0.03~0.2
		DB1000		Corte continuo a altas velocidades			130	████████████████████		250	0.03~0.15	0.03~0.2
		DBNX20		Corte de alta eficiencia	120	████████████████████		150			0.03~0.3	0.03~0.5
		DBNX25		Corte interrumpido a altas velocidades			150	████████████████████		200	0.03~0.3	0.03~0.5
		DBN250		Corte con interrupción media y baja	80	████████████████████		120			0.03~0.2	0.03~0.3
		DB2000		Corte con interrupción media y baja	80	████████████████████		200			0.03~0.2	0.03~0.3
		DBN350		Corte con interrupción alta	80	████████████████████		110			0.03~0.2	0.03~0.3
		DBN400		Corte de alta velocidad y a gran profundidad de corte	120	████████████████████		220			0.10~0.3	0.5

## Características

- Los productos PCD de KORLOY son fabricados bajo condiciones de temperatura y presión extremadamente altas, usando puntas de PCD de muy alta calidad. Después de la fabricación de estas puntas, se sueldan en el inserto de carburo. Ya que KORLOY proporciona productos de alta calidad para torneado, fresado, fresado con endmills, es posible cubrir las necesidades de una amplia gama de aplicaciones.
  - Excelente duración de la herramienta en aleaciones de aluminio y aleaciones de cobre
  - Vida de herramienta muy larga en maquinados de cerámica, aluminio alto en silicio y piedras y rocas
  - Excelente duración de la herramienta en gomas, plásticos, grafitos y maderas








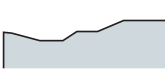














## Grados PCD

Grado	Características	Aplicación	Tam.grano (μm)	Dureza (Hv)	TRS (kgf/mm²)
DP90	Dureza y resistencia extremadamente altas conseguidas a base de usar diamante áspero. Dureza suficientemente alta como para maquinado de carburo cementado o aleaciones aluminio alto en silicio	Carburo cementado Desbaste en cerámica Aleación de aluminio alto en silicio Roca Piedra	50	10,000~12,000	110
DP150	Unión de enlaces fuerte, gracias al uso de finos granos de diamante. Muy recomendable para el maquinado de metales no férreo y grafito	Aleación de aluminio alta en silicio, cobre, aleación de bronce, caucho, madera, carbón	5	10,000~12,000	200
DP200	Filo extramadamente agudo conseguido con el grano ultra fino de diamante. Así el grado es apropiado para trabajar en el maquinado de material es no férreos	Plástico Madera Acabado preciso de aluminio	0.5	8,000~10,000	220

## Condiciones recomendadas de corte

Pza. Trabajo	Velocidad corte (m/min)	Avance (mm/rev)	Profundidad de corte (mm)	Grado recomendado	
				1 <sup>st</sup>	2 <sup>nd</sup>
Aleación de aluminio (4% ~ 8% Si)	1000~3000	0.1~0.6	~ 3	DP150	DP200
Aleación de aluminio (9% ~ 14% Si)	600~2500	0.1~0.5	~ 3	DP150	DP200
Aleación de aluminio (15% ~ 18% Si)	300~700	0.1~0.4	~ 3	DP150	DP200
Cobre, Aleación de bronce	~ 1000	0.05~0.2	~ 3	DP150	DP200
Plástico reforzado	~ 1000	0.1~0.3	~ 2	DP150	DP200
Madera	~ 4000	0.1~0.4	-	DP150	DP200
Carburo cementado	10~30	~ 0.2	~ 0.5	DP90	DP150

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación													Características	
		Avance $f_n$ (mm/rev)														
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3			
		Profundidad de Corte (mm)														
		0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13		
<b>VL</b> 						0.10~0.35									<b>Para acabado</b>	<ul style="list-style-type: none"> <li>Control de virutas estable en material de alta resistencia; acero al carbono bajo, tubería de acero</li> <li>Control de viruta mejorado para frontal, el maquinado de copiado y mejor acabado en superficie.</li> </ul>
<b>VB</b> 							0.15~0.45								<b>Para acabado</b>	<ul style="list-style-type: none"> <li>Mejor control de virutas en la profundidad más pequeña de los cortes</li> <li>Excelente control de virutas en maquinado de copiado</li> </ul>
<b>VF</b> 					0.05~0.35										<b>Para acabado</b>	<ul style="list-style-type: none"> <li>Buena calidad de control de la viruta de la profundidad de corte variado</li> <li>Excelente resistencia de punta se ha adquirido debido a la especial rompeviruta</li> </ul>
<b>VC</b> 						0.12~0.45									<b>Para acabado medio</b>	<ul style="list-style-type: none"> <li>Control de viruta estable en maquinado copiado e interno con varias profundidades de corte</li> </ul>
<b>VQ</b> 							0.10~0.40								<b>Para corte medio a acabado</b>	<ul style="list-style-type: none"> <li>Filo de corte medio a acabado ofrece un filo mejorado con dureza</li> <li>Para cermet</li> </ul>
<b>VM</b> 							0.10~0.50								<b>Para corte medio</b>	<ul style="list-style-type: none"> <li>Amplia gama de control de virutas disponibles de medio a acabado y de medio a desbaste</li> <li>Rompeviruta recomendado para maquinado en CNC</li> </ul>
<b>VH</b> 										0.70~1.40					<b>Para corte pesado</b>	<ul style="list-style-type: none"> <li>Diseñado específicamente para el mecanizado pesado</li> <li>Rompevirutas para la industrias pesadas como la construcción naval, la industria de energía de la planta.</li> </ul>
<b>VT</b> 											0.75~1.60				<b>Para corte pesado</b>	<ul style="list-style-type: none"> <li>Diseñado específicamente para el mecanizado pesado</li> <li>Rompevirutas para la industrias pesadas como la construcción naval, la industria de energía de la planta.</li> </ul>
<b>VP1</b> 					0.05~0.20										<b>Para acabado</b>	<ul style="list-style-type: none"> <li>Borde de corte altamente positivo</li> <li>Contacto de viruta reducido minimiza la temperatura para mejorar la vida de la herramienta</li> </ul>
<b>VP2</b> 						0.05~0.40									<b>Para medio acabado</b>	<ul style="list-style-type: none"> <li>Control de viruta estable y alto maquinado en copiado con profundidad de corte variada</li> </ul>

Nota : los rangos de aplicación se basa en el material principal de corte

# Rompeviruta para torneado

	Geometría	Filo de corte	Rango de aplicación													Características
			Avance $f_n$ (mm/rev)													
			0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3		
			Profundidad de Corte (mm)													
			0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13	
Serie V	VP3					0.05~0.45				0.5~4.5						<p><b>Para corte medio</b></p> <ul style="list-style-type: none"> <li>Alto filo positivo con amplio vaciado</li> <li>Rendimiento de corte estable en mecanizado interrumpido con alta tenacidad</li> <li>Maquinabilidad estable y control de viruta en mecanizado con alta profundidad de corte.</li> </ul>
	VP4						0.15~0.45				1.0~4.5					<p><b>Para desbaste</b></p> <ul style="list-style-type: none"> <li>El primer rompevirutas recomendado para cortar inconel</li> <li>Alto ángulo de ataque duro y resistente para evitar el desgaste en entalla en desbaste de superficies rugosas</li> </ul>
	VR							0.25~0.55				1.2~7.0				<p><b>Para desbaste</b></p> <ul style="list-style-type: none"> <li>Mecanizado de alto avance con la combinación de vaciado ancho y bolsillos</li> <li>El diseño de rompevirutas poco profundo evita el bloqueo de la viruta en el avance</li> <li>Disminución del desgaste en el filo principal debido al tratamiento especial en el filo</li> </ul>
Serie -P	LP					0.10~0.40					0.5~2.5					<p><b>Para medio acabado</b></p> <ul style="list-style-type: none"> <li>El ángulo de vaciado disminuye la resistencia al corte para una mejor rugosidad de la superficie</li> <li>El diseño especial de puntos evita el bloqueo de la viruta al romperla.</li> </ul>
	MP						0.15~0.45				0.5~4.5					<p><b>Para corte medio</b></p> <ul style="list-style-type: none"> <li>Aumento de la productividad debido al excelente control del chip en diversas condiciones.</li> <li>Vida útil estable de la herramienta al reducir la carga de corte a alta velocidad y alto avance</li> </ul>
Serie -M	MM					0.12~0.45					0.5~5.5					<p><b>Para corte medio</b></p> <ul style="list-style-type: none"> <li>El primer rompevirutas recomendado para corte continuo de aplicaciones inoxidables</li> <li>Mejora de la vida útil de la herramienta y el acabado de la superficie debido a los vaciados dobles que combinan maquinabilidad y resistencia.</li> <li>Amplios bolsillos para virutas para una evacuación estable de virutas a gran profundidad de cortes y altos avances</li> </ul>
	RM						0.15~0.55					2.0~6.0				<p><b>Para Desbaste de Acero</b></p> <ul style="list-style-type: none"> <li>El primer rompevirutas recomendado para corte o desbaste interrumpido de acero inoxidable.</li> <li>Desgaste de entallas inhibidas y creación de rebabas a gran profundidad de cortes y avance</li> <li>Reducción de las cargas de corte y mayor vida útil de la herramienta con grandes avances</li> </ul>
Serie -K	MK					0.10~0.50					1.0~5.0					<p><b>Para corte medio</b></p> <ul style="list-style-type: none"> <li>Adecuado para corte continuo de fundición dúctil y gris.</li> <li>Excelente vida útil de la herramienta y acabado superficial ayuda a los ángulos de vaciado que mejoran el rendimiento de corte</li> </ul>
	RK						0.20~0.60					1.5~6.0				<p><b>Para Desbaste de Acero</b></p> <ul style="list-style-type: none"> <li>Adecuado para el mecanizado de fundición dúctil y gris a altas velocidades y altos avances.</li> <li>Tenacidad mejorada y resistencia al astillado debido a vaciados planos</li> </ul>
Serie H	HA		0.03~0.30								0.5~2.5					<p><b>Para medio acabado</b></p> <ul style="list-style-type: none"> <li>Filo afilado genera baja fuerza de corte</li> <li>Borde principal resistente especialmente diseñado</li> <li>Adecuado para cortar acero con bajo contenido de carbono, acero inoxidable, aluminio.</li> </ul>

Nota : los rangos de aplicación se basa en el material principal de corte

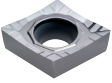

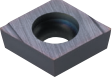

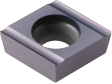







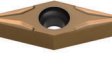

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación											Características		
		Avance $f_n$ (mm/rev)													
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3	
Profundidad de Corte (mm)															
		0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13	
Serie G	GR						0.30~0.80			3.0~8.0					<b>Para desbaste</b> • Adecuado para corte de gran profundidad y corte de acero y fundición en alto avance • Adecuado por corte intermitente
	GH						0.30~1.30			3.0~11.0					<b>Para corte pesado</b> • Adecuado para cortes pesados debido al filo fuerte • Amplio rango de control de viruta con baja fuerza de corte
Serie B	B25						0.50~1.00			4.0~10.0					<b>Para Corte general</b> • Adecuado para condiciones generales de corte.
Serie de V positivo	VF			0.05~0.25											<b>Para acabado</b> • Mejor acabado superficial y precisión de tamaño debido a la perforación interior estable
	VL			0.05~0.20											<b>Para acabado</b> • Control de viruta superior en acero con bajo contenido de carbono, tuberías y placas de acero.
	VP1			0.01~0.25											<b>Para acabado</b> • Excelente control de viruta en aplicación con poca profundidad de corte y bajo avance • Baja carga de corte y excelente acabado superficial • Óptimo para mecanizado interno y externo.
Serie de H positivo	HMP				0.08~0.40				0.5~3.5						<b>Para Corte Medio</b> • Excelente control de viruta en una amplia gama de condiciones de corte. • Versatilidad de mecanizado sobre una amplia gama de materiales.
Serie de C positivo	C25				0.10~0.35				1.0~3.0						<b>Para desbaste</b> • Conveniente para el corte intermitente y el mecanizado de fundición • Buen acabado superficial debido a la carga baja de corte • Recomendado para ambos boring y diámetro exterior
Serie de P positivo	MP			0.05~0.30					0.3~3.0						<b>Para Corte Medio</b> • Filo afilado y bolsillo ancho de virutas para una carga de corte baja • Control estable de viruta a diferentes profundidades de corte. • Excelente rendimiento de corte al mecanizar componentes de automóviles
Serie de Aluminio	AK			0.03~0.40					0.1~4.0						<b>Para acabado medio</b> • El alto ángulo de inclinación y el filo de baja resistencia aseguran una larga vida útil de la herramienta en el corte continuo de torneado de aluminio • Operación en acabado de alta velocidad

Nota : los rangos de aplicación se basa en el material principal de corte

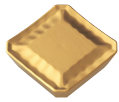

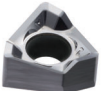


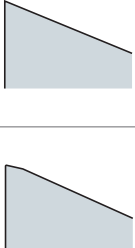



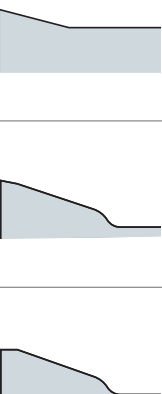


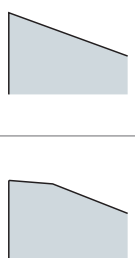


## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación													Características		
		Avance fn (mm/rev)															
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3				
		Profundidad de Corte (mm)															
		0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13			
Serie de Aluminio	AR			<div style="background-color: #ADD8E6; padding: 2px; display: inline-block;">0.05~0.50</div> <div style="background-color: #90EE90; padding: 2px; display: inline-block; margin-left: 20px;">0.5~4.0</div>													<p><b>Para corte medio</b></p> <ul style="list-style-type: none"> <li>• La alta estabilidad del filo asegura un gran rendimiento en alta velocidad y mecanizado interrumpido</li> <li>• Alta velocidad de funcionamiento medio e interrumpido.</li> </ul>
	Serie de herramientas automáticas	KF			<div style="background-color: #ADD8E6; padding: 2px; display: inline-block;">0.01~0.12</div> <div style="background-color: #90EE90; padding: 2px; display: inline-block; margin-left: 20px;">0.01~1.0</div>												
KM				<div style="background-color: #ADD8E6; padding: 2px; display: inline-block;">0.04~0.15</div> <div style="background-color: #90EE90; padding: 2px; display: inline-block; margin-left: 20px;">0.05~1.5</div>													<p><b>Para medio acabado</b></p> <ul style="list-style-type: none"> <li>• El control de viruta mejorado hace que la herramienta tenga una vida útil prolongada y mejor mecanizado</li> </ul>
Serie de herramientas de Wiper		LW			<div style="background-color: #ADD8E6; padding: 2px; display: inline-block;">0.15~0.60</div> <div style="background-color: #90EE90; padding: 2px; display: inline-block; margin-left: 20px;">1.0~5.0</div>												
	VW			<div style="background-color: #ADD8E6; padding: 2px; display: inline-block;">0.15~0.50</div> <div style="background-color: #90EE90; padding: 2px; display: inline-block; margin-left: 20px;">0.5~3.5</div>													<p><b>Para medio acabado</b></p> <ul style="list-style-type: none"> <li>• Rugosidad de la superficie mejorada a poca profundidad de corte y alto avance debido al filo fuerte</li> </ul>
	Serie de H positivo	SR			<div style="background-color: #ADD8E6; padding: 2px; display: inline-block;">0.12~0.45</div> <div style="background-color: #90EE90; padding: 2px; display: inline-block; margin-left: 20px;">1.0~4.5</div>												
SH				<div style="background-color: #ADD8E6; padding: 2px; display: inline-block;">0.15~0.50</div> <div style="background-color: #90EE90; padding: 2px; display: inline-block; margin-left: 20px;">1.5~5.0</div>													<p><b>Para corte medio</b></p> <ul style="list-style-type: none"> <li>• Un buen flujo de viruta aumenta la vida útil de la herramienta y la maquinabilidad.</li> </ul>

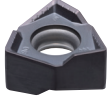





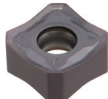






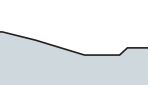






Nota : los rangos de aplicación se basa en el material principal de corte

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación											Características			
		Avance fn (mm/rev)														
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3		
Profundidad de Corte (mm)																
		0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	14		
Serie de MX 		0.10~0.30					1.0~5.0									<b>Para desbaste</b> <ul style="list-style-type: none"> <li>• Posible aumentar la productividad a través de aumentar el avance y la profundidad</li> <li>• Excelente resistencia al calor debido al diseño especial de rompevirutas de la cara superior del inserto</li> </ul>
		0.20~0.40					2.0~14.0									<b>Para desbaste</b> <ul style="list-style-type: none"> <li>• La herramienta especializada para desbaste de alta profundidad de corte con filo de alta rigidez garantiza un mecanizado estable.</li> </ul>
Serie de Rich Mill -RM3   		0.05~0.40					1.0~8.0									<b>Para fresado de Aluminio</b> <ul style="list-style-type: none"> <li>• Filo afilado para baja carga de corte, ideal para mecanizar acero, materiales difíciles de cortar y aluminio.</li> </ul>
		0.05~0.30					1.0~8.0									<b>Para mecanizado del materiales difíciles de corte</b> <ul style="list-style-type: none"> <li>• Baja resistencia al corte para corte ligero y mecanizado de materiales difíciles de corte con excelente vida útil de la herramienta y rugosidad de la superficie</li> </ul>
		0.05~0.35					1.0~8.0									<b>Para Corte general</b> <ul style="list-style-type: none"> <li>• Disponible para la mayoría de las aplicaciones con diseño universal para fresado general</li> </ul>
Serie de Rich Mill -RM4   		0.05~0.25					0.3~14.0									<b>Para mecanizado de aluminio</b> <ul style="list-style-type: none"> <li>• Borde muy afilado, que brinda una menor resistencia de corte y un maquinado excelente tanto en materiales difíciles de cortar, como aluminio y maquinado ligero</li> </ul>
		0.05~0.30					0.5~14.0									<b>Para corte ligero</b> <ul style="list-style-type: none"> <li>• El diseño de rompevirutas de baja fuerza de corte garantiza una mayor vida útil de la herramienta y un excelente mecanizado en material difícil de cortar y mecanizado ligero</li> </ul>
		0.05~0.30					1.0~14.0									<b>Para Corte general</b> <ul style="list-style-type: none"> <li>• El diseño de geometría adecuado para fresado general tiene rangos más amplios de mecanizado</li> </ul>
Serie de Rich Mill -RM6  		0.05~0.2					1.0~8.2									<b>Para mecanizado de aluminio</b> <ul style="list-style-type: none"> <li>• El filo afilado especializado para el mecanizado de aluminio garantiza la maquinabilidad</li> <li>• El tratamiento de pulido en la superficie proporciona un buen flujo de viruta y resistencia a la soldadura.</li> </ul>
		0.05~0.25					1.0~8.2									<b>Para mecanizado del materiales difíciles de corte</b> <ul style="list-style-type: none"> <li>• Rompevirutas de baja carga de corte para corte ligero</li> <li>• Larga vida útil de la herramienta y alta calidad de mecanizado en corte de material difícil de cortar</li> </ul>













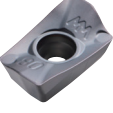



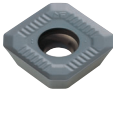

Nota : los rangos de aplicación se basa en el material principal de corte

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación											Características			
		Avance fn (mm/rev)														
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3		
		Profundidad de Corte (mm)														
		0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	14		
Serie de Rich Mill - RM6	MM 					0.05~0.25				1.0~8.2					<b>Para Corte general</b>  • Forma óptimamente diseñada para fresado general de escuadrado en varios rangos de corte	
Series de Rich Mill RMB	MA 					0.05~0.35				0.3~6.0					<b>Para mecanizado de aluminio</b>  • El filo afilado y la cara superior lubricada muestran un excelente flujo de viruta y resistencia a la soldadura en el mecanizado de aluminio	
	MF 					0.05~0.35				0.3~6.0					<b>Para corte ligero</b>  • El diseño de rompevirutas de baja fuerza de corte garantiza una mayor vida de herramienta y un excelente mecanizado en material difícil de cortar y mecanizado ligero	
	ML 					0.05~0.30				0.3~6.0					<b>Para mecanizado del materiales difíciles de corte</b>  • Rompevirutas con baja resistencia a la carga de corte garantiza una larga vida de herramienta y una alta calidad en el corte de material ligero y difícil de cortar	
	MM 						0.10~0.40				0.5~6.0					<b>Para Corte general</b>  • El diseño de geometría adecuado para fresado general tiene rangos más amplios de mecanizado
	MF 						0.05~0.20				0.5~5.0					<b>Para corte ligero</b>  • El diseño de rompevirutas de baja fuerza de corte garantiza una mayor vida de herramienta y un excelente mecanizado en material difícil de cortar y mecanizado ligero
Series de Rich Mill RMT	MM 					0.05~0.30				0.5~8.0					<b>Para Corte general</b>  • El diseño de geometría adecuado para fresado general tiene rangos más amplios de mecanizado	
	MA 					0.05~0.30				0.3~5.5					<b>Para mecanizado de aluminio</b>  • El diseño afilado del filo garantiza una baja resistencia al corte y un excelente mecanizado en materiales difíciles de cortar, aluminio y mecanizado ligero	
Series de Rich Mill RM16	MF 					0.05~0.40				0.3~5.5					<b>Para corte ligero</b>  • El diseño de rompevirutas de baja fuerza de corte garantiza una mayor vida de herramienta y un excelente mecanizado en material difícil de cortar y mecanizado ligero	
	ML 					0.05~0.35				0.3~5.5					<b>Para mecanizado del materiales difíciles de corte</b>  • Baja resistencia al corte para una excelente vida de herramienta y rugosidad de la superficie en el mecanizado de materiales difíciles de cortar	

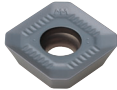

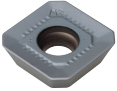





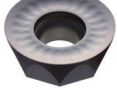


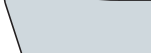

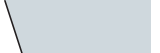

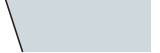

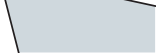


Nota : los rangos de aplicación se basa en el material principal de corte

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación												Características									
		Avance $f_n$ (mm/rev)																					
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3										
Profundidad de Corte (mm)																							
0.1												0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	17
<b>MM</b> 		0.10~0.45				0.5~5.5								<b>Para Corte general</b> • El diseño de geometría adecuado para fresado general tiene rangos más amplios de mecanizado									
		0.05~0.30				0.3~2.0								<b>Para acabado en fresado (Wiper)</b> • El inserto de Wiper proporciona una rugosidad superficial mejorada debido al filo especial									
<b>MA</b> 		0.10~0.40				0.5~16								<b>Para mecanizado de aluminio</b> • El filo afilado y la superficie superior lubricada muestran un excelente flujo de viruta y resistencia a la soldadura en el mecanizado de aluminio									
<b>MF</b> 		0.05~0.15		0.5~16										<b>Para corte ligero</b> • El diseño del rompevirutas de baja fuerza de corte garantiza una mayor vida de herramienta y un excelente mecanizado en material difícil de cortar y mecanizado ligero									
<b>MM</b> 		0.10~0.25		0.5~16										<b>Para Corte general</b> • El diseño de geometría adecuado para fresado general tiene rangos más amplios de mecanizado									
		<b>ML</b> 		0.05~0.15		0.5~16										<b>Para mecanizar materiales difíciles de cortar</b> • El rompevirutas con baja resistencia al corte garantiza una maquinabilidad superior en materiales difíciles de cortar							
<b>MN</b> 		0.10~0.25		0.5~16										<b>Para desbaste (Borde dentado)</b> • El diseño para un corte fácil de virutas garantiza una alta maquinabilidad en el endurecimiento									
<b>MM</b> 		0.05~0.35			1.0~16.5									<b>Para corte general</b> • Forma para fresado general con la mayoría del rango de corte									
		<b>ML</b> 		0.05~0.30		1.0~16.5										<b>Para mecanizar materiales difíciles de cortar</b> • El rompevirutas para cortar con poca carga de corte garantiza una larga vida de herramienta y un mecanizado calificado en corte ligero y mecanizado HRSA							
<b>MF</b> 		0.05~0.20		0.5~5.0										<b>Para corte ligero</b> • El diseño especial para el corte ligero de materiales pegajosos como el acero inoxidable y el material difícil de mecanizar proporciona un acabado superficial fino y una vida útil más larga de la herramienta									

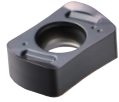
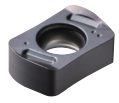
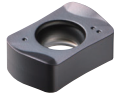




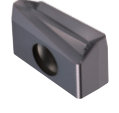
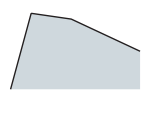
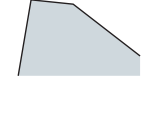

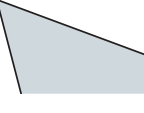
Nota : los rangos de aplicación se basa en el material principal de corte

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación													Características		
		Avance $f_n$ (mm/rev)															
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3				
		Profundidad de Corte (mm)															
		0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	14			
Series de Future Mill	MM			0.05~0.30				1.0~5.0									<b>Para Corte general</b> <ul style="list-style-type: none"> <li>El diseño del rompevirutas para cubrir las condiciones generales de corte proporciona una amplia gama de aplicaciones disponibles</li> <li>Tipo plano y como tipo sinterizado está disponible</li> </ul>
	MR			0.05~0.35				1.5~5.0									<b>Para desbaste</b> <ul style="list-style-type: none"> <li>La mayor resistencia del filo proporciona una vida estable de herramienta incluso en caso de corte severo con desbaste pesado intermitente y pesado</li> </ul>
	MA			0.10~0.35				0.5~5.0									<b>Para mecanizado de aluminio</b> <ul style="list-style-type: none"> <li>El filo afilado y la superficie superior lubricada muestran un excelente flujo de viruta y resistencia a la soldadura en el mecanizado de aluminio</li> </ul>
Series P-positivo de Future Mill	MA			0.30~0.60				0.3~6.0									<b>Para mecanizado de aluminio</b> <ul style="list-style-type: none"> <li>Excelente rugosidad de la superficie debido a la superficie pulida en aluminio mecanizado</li> </ul>
	ML			0.30~0.50				0.3~3.0									<b>Para mecanizar materiales difíciles de cortar</b> <ul style="list-style-type: none"> <li>Baja resistencia al corte y filos de alta dureza para una excelente rugosidad de la superficie en el mecanizado de titanio e Inconel</li> </ul>
	MF			0.12~0.50				0.3~6.0									<b>Para corte ligero</b> <ul style="list-style-type: none"> <li>Baja resistencia al corte para cortes ligeros</li> </ul>
	MM			0.20~0.70				0.3~6.0									<b>Para Corte general</b> <ul style="list-style-type: none"> <li>Propósito universal para la mayoría de las aplicaciones de fresado</li> </ul>
	None C/B			0.3~0.5				0.30~0.50									<b>Para mecanizar acero de alta dureza</b> <ul style="list-style-type: none"> <li>Ideal para mecanizar acero de molde de alta dureza y aleación resistente al calor</li> </ul>
HFM	MF			0.1~0.4				0.30~1.0									<b>Para corte ligero</b> <ul style="list-style-type: none"> <li>El rompevirutas para cortar con poca carga de corte es óptimo para corte ligero</li> </ul>
	None C/B			0.1~0.4				0.30~0.80									<b>Para mecanizar acero de alta dureza</b> <ul style="list-style-type: none"> <li>La forma con filo duro es óptima para el mecanizado de acero aleado de alta dureza</li> </ul>

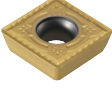

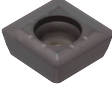


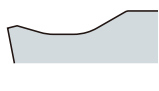
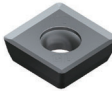

Nota : los rangos de aplicación se basa en el material principal de corte

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación											Características									
		Avance fn (mm/rev)																				
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3								
Profundidad de Corte (mm)																						
0.1											0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	57
<b>HFMD</b>  <b>ML</b>  <b>MF</b>  <b>MM</b>	  					0.2~1.0		0.30~0.80							<b>Para mecanizar materiales difíciles de cortar</b> <ul style="list-style-type: none"> <li>El rompevirutas para cortar con poca carga de corte y el filo duro aseguran un mecanizado altamente calificado</li> </ul>							
						0.2~1.0		0.30~1.0							<b>Para corte ligero</b> <ul style="list-style-type: none"> <li>El rompevirutas para cortar con poca carga de corte es para corte ligero</li> </ul>							
						0.2~1.0		0.30~1.20							<b>Para Corte general</b> <ul style="list-style-type: none"> <li>La forma para mecanizado general con alto avance está disponible para la mayoría del rango de mecanizado</li> </ul>							
<b>TP2P</b>  <b>ML</b>  <b>MM</b>	 	0.05~0.25			1.0~16.5										<b>Para mecanizado de aluminio</b> <ul style="list-style-type: none"> <li>El filo afilado para el mecanizado de aluminio garantiza una buena maquinabilidad</li> <li>La superficie pulida se da cuenta del flujo de viruta y la resistencia a la soldadura</li> </ul>							
		0.05~0.25			1.0~16.5										<b>Para mecanizar materiales difíciles de cortar</b> <ul style="list-style-type: none"> <li>El rompevirutas para cortar con poca carga de corte garantiza una larga vida útil de la herramienta y un mecanizado calificado en corte ligero y mecanizado HRSA</li> </ul>							
		0.05~0.25			1.0~16.5										<b>Para Corte general</b> <ul style="list-style-type: none"> <li>La forma especializada para ranurado general es aplicable en la mayoría de los rangos de corte</li> </ul>							
<b>Pro-XL Mill</b>  <b>MA</b>		0.05~0.20											10~57		<b>Para mecanizado de aluminio</b> <ul style="list-style-type: none"> <li>El filo afilado con pulido en la superficie para el mecanizado de aluminio garantiza el flujo de viruta y la resistencia a la soldadura</li> </ul>							
		0.10~0.30				1.0~17									<b>Para mecanizado de aluminio</b> <ul style="list-style-type: none"> <li>La forma para ranurado general es aplicable en la mayoría de los rangos de corte</li> </ul>							

Nota : los rangos de aplicación se basa en el material principal de corte

## Rompeviruta para torneado

Geometría	Filo de corte	Rango de aplicación												Características		
		Avance $f_n$ (mm/rev)														
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3			
		Profundidad de Corte (mm)														
		30	60	90	120	150	180	210	240	270	300	330	900			
Serie de King Drill	<b>PD</b> 		0.04~0.20												60~300	<b>Para Corte general</b>  • Rompevirutas con filo de corte fuerte para aplicaciones universales con acero, acero inoxidable y fundición
	<b>LD</b> 		0.04~0.15												40~250	<b>Para acero general (acero dulce y acero forjado)</b>  • Un superior control de viruta en maquinado para acero dulce, acero forjado y acero inoxidable
	<b>RD</b> 		0.04~0.20												60~300	<b>Resistencia reforzada al astillado</b>  • Mayor resistencia al astillamiento debido a los filos reforzados de los insertos centrales de King Drill • Excelente rendimiento de corte incluso en mecanizado donde hay rotura frecuente de filos de insertos centrales • p.ej. Mecanizado de acero con tratamiento térmico o acero inoxidable, y mecanizado de alto avance, etc.
	<b>ND</b> 		0.04~0.10												100~400	<b>Metales no férricos</b>  • Rompevirutas con filo afilado y pulido para aluminio y metales no ferrosos. Mecanizado con King Drill asegura un buen flujo de viruta y resistencia a la soldadura de viruta.

Nota : los rangos de aplicación se basa en el material principal de corte

# Inserto

KORLOY intenta constantemente expandir la gama de rompevirutas y geometrías de esquinas para facilitar la producción personalizada que cubre muchos materiales de piezas de trabajo diferentes (P, M, K, S, N) y métodos de mecanizado (torneado, fresado y taladrado).

Siempre nos aseguramos de mejorar la satisfacción del cliente para proporcionar una solución de problemas rápida o una mayor productividad y calidad de mecanizado.

- Insertos de torneado
- Insertos de fresado
- Insertos de perforación
- Insertos para mecanizado de aluminio
- Insertos para herramientas multifuncionales
- Insertos de rodamientos
- Insertos de cBN
- Insertos PCD

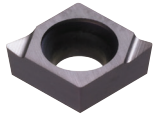


# Insertos para torneado

## » Para torneado

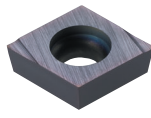
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030102R/L  
030104R/L  
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040102R/L  
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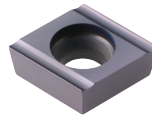
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09T302MFR/L



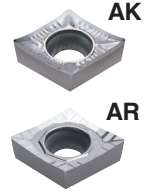
### CCET-KM

0602005MFR/L  
060201MFR/L  
060202MFR/L  
09T3005MFR/L  
09T301MFR/L  
09T302MFR/L



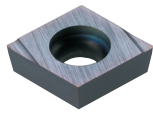
### CCGT-AK/AR

060202 120402  
060204 120404  
060208 120408  
09T302  
09T304  
09T308



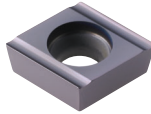
### CCGT-KF

0602003R/L  
060201R/L  
060202R/L  
09T3003R/L  
09T301R/L  
09T302R/L



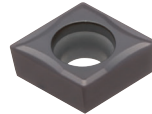
### CCGT-KM

0602003R/L  
060201R/L  
060202R/L  
09T3003R/L  
09T301R/L  
09T302R/L



### CCGT-VP1

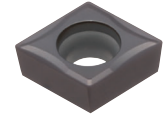
060201  
060202  
060204  
09T301  
09T302  
09T304



### CCGT-VP1

Clase con precisión

060201MFN  
060202MFN  
060204MFN  
09T301MFN  
09T302MFN  
09T304MFN



### CCMT-C25

060202 120404  
060204 120408  
060208 120412  
080308  
09T302  
09T304  
09T308



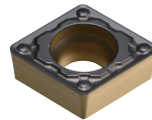
### CCMT-HMP

060202 120404  
060204 120408  
060208 120412  
09T302  
09T304  
09T308



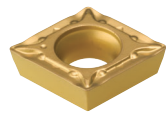
### CCMT-MP

060202 120404  
060204 120408  
060208 120412  
09T302  
09T304  
09T308



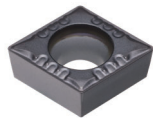
### CCMT-VF

060202  
060204  
09T302  
09T304  
09T308  
120404



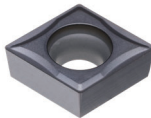
### CCMT-VL

060202 120404  
060204 120408  
060208 120412  
09T304  
09T308



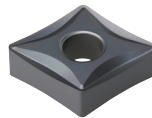
### CCMT-VP1

060204  
09T304  
09T308  
120404  
120408  
120412



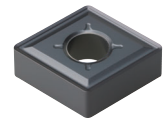
### CNGG-VP1

120402  
120404  
120408



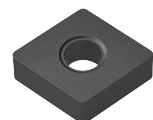
### CNGG-VP3

120404  
120408  
120412



### CNMA

090308 160608  
120404 160612  
120408 160616  
120412 190608  
120416 190612  
190616



### CNMG-B25

120404 190604  
120408 190608  
120412 190612  
160608 190616  
160612  
160616



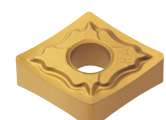
### CNMG-GR

120408 190608  
120412 190612  
120416 190616  
160608 190624  
160612 250724  
160616 250924



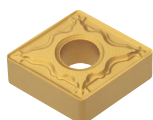
### CNMG-HA

120404  
120408  
120412



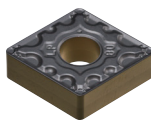
### CNMG-HM

090304  
120404  
120408  
120412  
190612



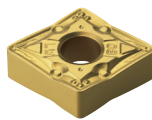
### CNMG-LP

090304  
090308  
120404  
120408  
120412



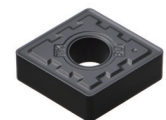
### CNMG-LW

120408  
120412



### CNMG-MK

120404 190608  
120408 190612  
120412 190616  
120416  
160608  
160612  
160616



# Insertos para torneado

## » Para torneado

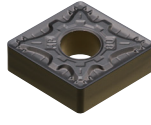
### CNMG-MM

090304 160608  
090308 160612  
090312 160616  
090404 190608  
090408 190612  
090412 190616  
120404  
120408  
120412  
120416



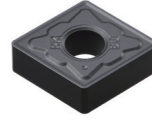
### CNMG-MP

090304 160608  
090308 160612  
090312 160616  
090404 190608  
090408 190612  
090412 190616  
120404  
120408  
120412  
120416



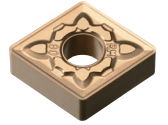
### CNMG-RK

120404 190612  
120408 190616  
120412  
120416  
160608  
160612  
160616



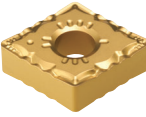
### CNMG-RM

120404 190608  
120408 190612  
120412 190616  
120416 250924  
160608  
160612  
160616



### CNMG-VB

120404  
120408  
120412



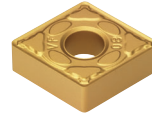
### CNMG-VC

120404  
120408  
120412



### CNMG-VF

090304  
090308  
120404  
120408  
120412



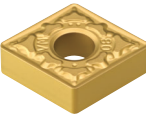
### CNMG-VL

120404  
120408  
120412



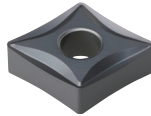
### CNMG-VM

090304 160608  
090308 160612  
120404 190608  
120408 190612  
120412 190616  
120416



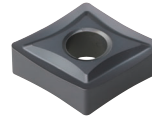
### CNMG-VP1

120404  
120408



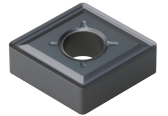
### CNMG-VP2

120404  
120408  
160618  
190608  
190612  
190616



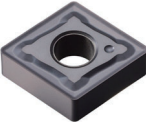
### CNMG-VP3

120404 190608  
120408 190612  
120412 190616  
120416  
160608  
160612  
160616



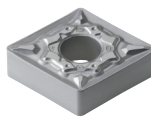
### CNMG-VP4

120408  
120412  
160608  
160612  
190608  
190612



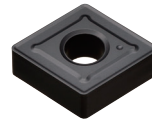
### CNMG-VQ

090304  
090308  
090408  
090412  
120404  
120408  
120412



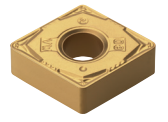
### CNMG-VR

120404 160612  
120408 160616  
120412 190612  
120416 190616  
120508  
120512



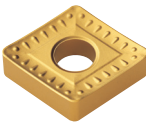
### CNMG-VW

120404  
120408  
120412



### CNMM-GH

120408 190608  
120412 190612  
160412 190616  
160424 190624  
160612 250716  
160616 250724  
160624 250924  
250950



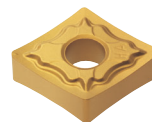
### CNMM-GR

120408  
120412  
190612  
190616



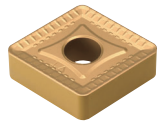
### CNMM-HA

120408



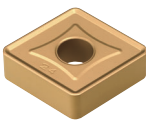
### CNMM-VH

190612  
190616  
190624  
250724  
250924



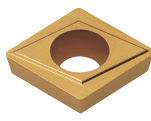
### CNMM-VT

190612  
190616  
190624  
250724  
250924



### CPGT

080202  
080204  
080208  
090302  
090304  
090308



### CPGT-HMP

090308-HMP



### CPMT-C25

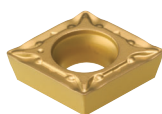
060204



» Para torneado

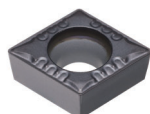
**CPMT-VF**

080204  
080208  
090304  
090308



**CPMT-VL**

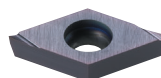
080204  
080208  
090304  
090308



**DCET-KF**

Clase con precisión

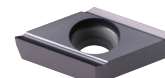
0702005MFR/L  
070201MFR/L  
070202MFR/L  
11T3005MFR/L  
11T301MFR/L  
11T302MFR/L



**DCET-KM**

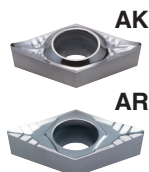
Clase con precisión

0702005MFR/L  
070201MFR/L  
070202MFR/L  
11T3005MFR/L  
11T301MFR/L  
11T302MFR/L



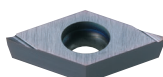
**DCGT-AK/AR**

070202  
070204  
070208  
11T302  
11T304  
11T308  
11T312



**DCGT-KF**

0702003R/L  
070201R/L  
070202R/L  
11T3003R/L  
11T301R/L  
11T302R/L



**DCGT-KM**

0702003R/L  
070201R/L  
070202R/L  
11T3003R/L  
11T301R/L  
11T302R/L



**DCGT-VP1**

070201  
070202  
070204  
11T301  
11T302  
11T304



**DCGT-VP1**

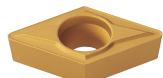
Clase con precisión

070201MFN  
070202MFN  
070204MFN  
11T301MFN  
11T302MFN  
11T304MFN



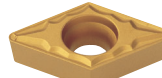
**DCMT-C25**

070202  
070204  
070208  
11T302  
11T304  
11T308



**DCMT-HMP**

070202  
070204  
070208  
11T302  
11T304  
11T308



**DCMT-MP**

070202  
070204  
070208  
11T302  
11T304  
11T308  
11T312



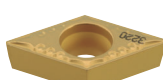
**DCMT-VF**

070202  
070204  
11T302  
11T304  
11T308



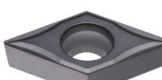
**DCMT-VL**

070202  
070204  
070208  
11T302  
11T304  
11T308  
11T312



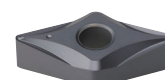
**DCMT-VP1**

070204  
11T304  
11T308



**DNGG-VP1**

150404  
150408  
150604  
150608



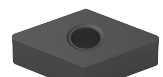
**DNGG-VP3**

150404  
150408  
150412  
150604  
150608  
150612



**DNMA**

110408  
150404  
150408  
150412  
150604  
150608  
150612  
190608



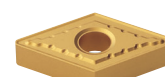
**DNMG-B25**

150402 150602  
150404 150604  
150408 150608  
150412 150612  
150425 150625



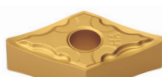
**DNMG-GR**

150408  
150412  
150416  
150608  
150612  
150616



**DNMG-HA**

150404  
150408  
150604  
150608



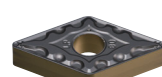
**DNMG-HM**

110404  
110408  
150404  
150408  
150604  
150608  
150612



**DNMG-LP**

110402 150404  
110404 150408  
110408 150412  
110504 150604  
110508 150608  
150612



**DNMG-LW**

150408  
150412  
150608  
150612

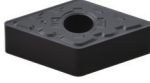


# Insertos para torneado

## » Para torneado

### DNMG-MK

150404  
150408  
150412  
150604  
150608  
150612



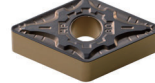
### DNMG-MM

110404 150404  
110408 150408  
110412 150412  
110504 150416  
110508 150604  
110512 150608  
150612  
150616



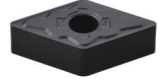
### DNMG-MP

110404 150404  
110408 150408  
110412 150412  
110504 150416  
110508 150604  
110512 150608  
150612  
150616



### DNMG-RK

150408  
150412  
150608  
150612



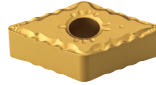
### DNMG-RM

150404  
150408  
150412  
150416  
150604  
150608  
150612  
150616



### DNMG-VB

110404  
150404  
150408  
150412  
150604  
150608  
150612



### DNMG-VC

150404  
150408  
150412  
150604  
150608  
150612



### DNMG-VF

110402  
110404  
110408  
150404  
150408  
150412  
150604  
150608  
150612



### DNMG-VL

110408  
150404  
150408  
150412  
150604  
150608  
150612



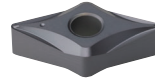
### DNMG-VM

110404 150604  
110408 150608  
110412 150612  
150404  
150408  
150412



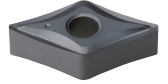
### DNMG-VP1

150404  
150408  
150604  
150608



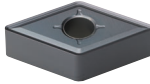
### DNMG-VP2

150404  
150408  
150604  
150608



### DNMG-VP3

150404  
150408  
150412  
150604  
150608  
150612



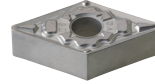
### DNMG-VP4

150408  
150412  
150608  
150612



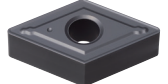
### DNMG-VQ

110404 150604  
110408 150608  
110412 150612  
150404  
150408  
150412



### DNMG-VR

150408  
150412  
150608  
150612



### DNMG-VW

150404  
150408  
150604  
150608



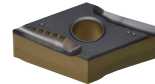
### DNMX-SH

150404R/L  
150408R/L  
150604R/L  
150608R/L



### DNMX-SR

150404R/L  
150408R/L  
150604R/L  
150608R/L



### KNUX-11

160405R/L  
160410R/L



### KNUX-12

160405R/L  
160410R/L



### RCGT-AK/AR

0602M0  
0803M0  
1003M0  
10T3M0  
1204M0



### RCMT-VM

0803M0  
10T3M0  
1204M0  
1606M0



### RCMX

1003M0  
1204M0  
1606M0  
2006M0  
2507M0  
3209M0



» Para torneado

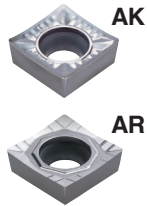
**RNMG-B25**

090300  
120400  
150600  
190600  
250600  
250900  
310900



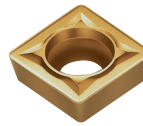
**SCGT-AK/AR**

09T302  
09T304  
09T308  
120404  
120408  
120416



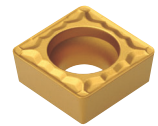
**SCMT-C25**

060204  
09T304  
09T308  
120404  
120408



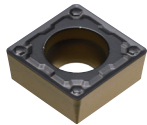
**SCMT-HMP**

09T304  
09T308  
120404  
120408



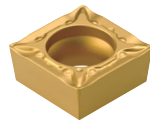
**SCMT-MP**

09T304  
09T308  
120404  
120408  
120412



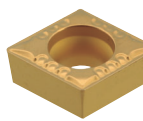
**SCMT-VF**

09T304



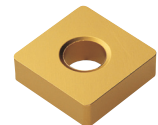
**SCMT-VL**

09T304  
09T308



**SNGA**

090304 150608  
090308 150616  
120404 190608  
120408 190612  
120412



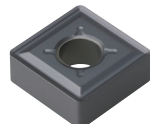
**SNGG**

090304R/L  
090308R/L  
120404R/L  
120408R/L  
120412R/L



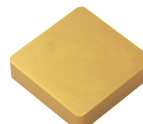
**SNGG-VP3**

120404  
120408  
120412



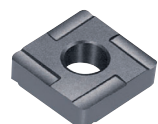
**SNGN**

090302 120424  
090304 150402  
090308 150408  
120304 150412  
120308 150416  
120312 190402  
120402 190412  
120404 190416  
120408 250604  
120412 250616



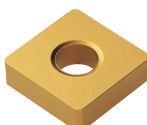
**SNGX**

120408R



**SNMA**

090304 150612  
090308 150616  
090312 190608  
120402 190612  
120404 190616  
120408 190624  
120412 250724  
120416 250924  
120430



**SNMG-B25**

090308 190608  
120404 190612  
120408 190616  
120412 250716  
120416 250724  
120420 250924  
150608  
150612  
150616



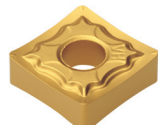
**SNMG-GR**

120404 190608  
120408 190612  
120412 190616  
150608 190624  
150612 250724  
250924



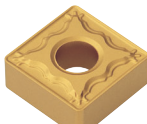
**SNMG-HA**

120404  
120408  
120412



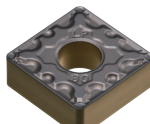
**SNMG-HM**

120404  
120408  
120412



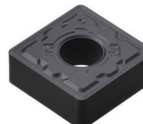
**SNMG-LP**

090308  
090408  
120404  
120408  
120412



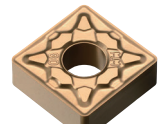
**SNMG-MK**

090308 190608  
120404 190612  
120408 190616  
120412  
120416  
150608  
150612  
150616



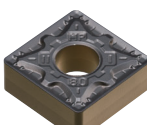
**SNMG-MM**

090304 150608  
090308 150612  
090312 150616  
090404 190608  
090408 190612  
120404 190616  
120408 250924  
120412  
120416



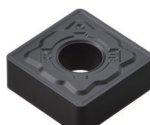
**SNMG-MP**

090304 120404  
090308 120408  
090312 120412  
090404 120416  
090408 150608  
090412 150612  
190608  
190612



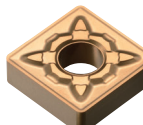
**SNMG-RK**

120404  
120408  
120412  
120416  
150612  
150616  
190612  
190616



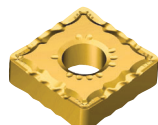
**SNMG-RM**

120404 190608  
120408 190612  
120412 190616  
120416 190624  
150608 250924  
150612  
150616



**SNMG-VB**

120404  
120408



# Insertos para torneado

## » Para torneado

### SNMG-VC

120408



### SNMG-VF

090304  
090308  
120404  
120408  
120412



### SNMG-VL

120408



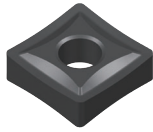
### SNMG-VM

090304  
090308  
120404  
120408  
120412  
190612  
190616



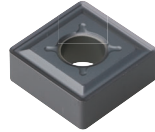
### SNMG-VP2

120404  
120408  
120412



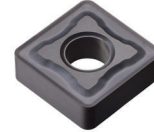
### SNMG-VP3

120404 190608  
120408 190612  
120412 190616  
120416  
160608  
160612  
160616



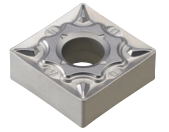
### SNMG-VP4

120408  
120412  
150612  
190608  
190612  
190616



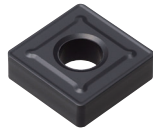
### SNMG-VQ

090304  
090408  
090412  
120404  
120408



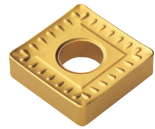
### SNMG-VR

120408  
120412  
120416  
190612  
190616



### SNMM-GH

120408 250724  
120412 250924  
150612 250932  
190612  
190616  
190624



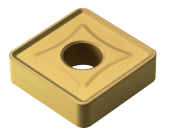
### SNMM-GR

120408  
120412  
190612  
190616



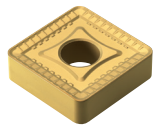
### SNMM-VH

190612  
190616  
190624  
250716  
250724  
250920  
250924



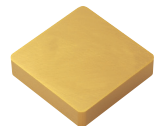
### SNMM-VT

190612  
190616  
190624  
250716  
250724  
250920  
250924



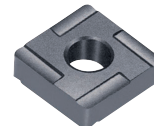
### SNMN

120304 150404  
120308 150408  
120312 150412  
120404 190416  
120408  
120412



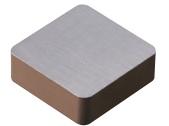
### SNMX

120408R



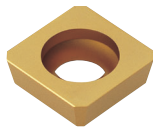
### SNUN

120408  
120412  
190412  
120412TN  
250724TN



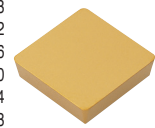
### SPGA

060204  
090308T  
090308T-Z



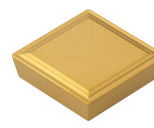
### SPGN

070202 120316 150408  
070208 120402 150412  
090302 120404 150416  
090304 120408 150420  
090308 120412 190404  
120302 120416 190408  
120304 120430 190412  
120308 120440 190416  
120312 150404 190424



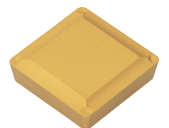
### SPGR-F

090304  
120304



### SPGR-M

090308  
120308



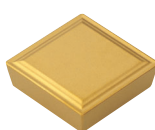
### SPGT

090304R/L  
090308R/L



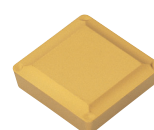
### SPMR-F

090304  
120304



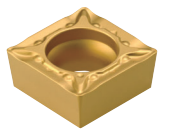
### SPMR-M

090308  
120308  
120312



### SPMT-VF

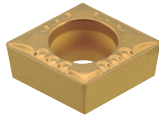
090304  
090308



» Para torneado

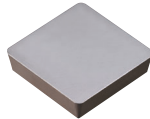
**SPMT-VL**

09T304  
09T308



**SPUN**

120304  
120308  
120308SN  
150412  
190412  
190416  
250620



**TBGT**

060102L  
060104L



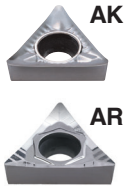
**TBMT-VL**

060102



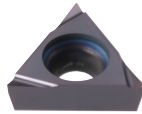
**TCGT-AK/AR**

090202 16T302  
090204 16T304  
110202 16T308  
110204 16T312  
110208 16T316  
16T325



**TCGT-KF**

0802003R/L  
080201R/L  
080202R/L



**TCGT-VP1**

090204  
16T304  
16T308



**TCMT-C25**

090204  
090208  
110202  
110204  
110208  
16T304  
16T308



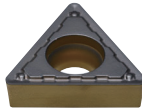
**TCMT-HMP**

090204 16T304  
090208 16T308  
110202  
110204  
110208



**TCMT-MP**

090204 16T302  
090208 16T304  
110202 16T308  
110204 16T312  
110208 220408



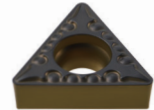
**TCMT-VF**

110202  
110204  
110208  
16T302  
16T304



**TCMT-VL**

090208  
110204  
110208  
16T304  
16T308



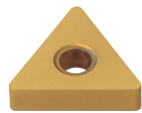
**TCMT-VP1**

16T304  
16T308



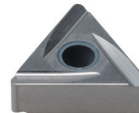
**TNGA**

110302 220304  
110304 220402  
160304 220404  
160402 220408  
160404 220412  
160408 270612  
270624



**TNGG**

110304R/L  
160402R/L  
160404R/L  
160408R/L  
220404R/L  
220408R/L  
220412R/L



**TNGG-SC**

160402R/L  
160404R/L



**TNGG-VP3**

160404  
160408



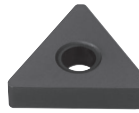
**TNGN**

110302 220404  
110304 220408  
110308 220412  
160302 220416  
160304 220424  
160308 270630  
160404  
160408  
160412



**TNMA**

110308 220420  
160404 220432  
160408 270608  
160412 270612  
160416 270616  
220404 330924  
220408  
220412  
220416



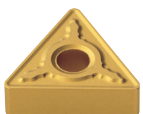
**TNMG-B25**

110308 220424  
160404 220432  
160408 270608  
160412 270612  
160416 270616  
220404 330716  
220408 330924  
220412  
220416



**TNMG-GR**

160408 270608  
160412 270612  
220408 270616  
220412 330924  
220416



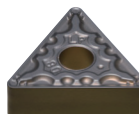
**TNMG-HM**

110308  
160404  
160408  
160412  
220404  
220408



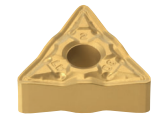
**TNMG-LP**

110304  
110308  
160404  
160408  
160412



**TNMG-LW**

160408  
160412



# < Insertos para torneado >

## » Para torneado

### TNMG-MK

160404 220404  
160408 220408  
160412 220412  
160416 220416  
270612



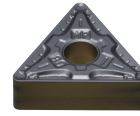
### TNMG-MM

160404 220404  
160408 220408  
160412 220412  
160416 220416



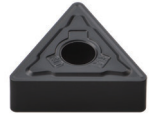
### TNMG-MP

110308 220404  
160404 220408  
160408 220412  
160412 220416  
160416



### TNMG-RK

160408  
160412  
160416  
220408  
220412  
220416



### TNMG-RM

160404  
160408  
160412  
220408  
220412  
220416



### TNMG-VB

160404  
160408  
160412  
220408  
220412



### TNMG-VC

160404  
160408  
160412  
220408  
220412



### TNMG-VF

110304 220404  
160404 220408  
160408  
160412



### TNMG-VL

160404  
160408  
160412  
220408  
220412



### TNMG-VM

110308 220404  
160404 220408  
160408 220412  
160412



### TNMG-VP2

160404  
160408  
160412  
220404  
220408



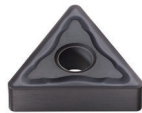
### TNMG-VP3

160404  
160408  
160412  
220404  
220408  
220412  
220416



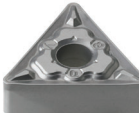
### TNMG-VP4

160408  
160412



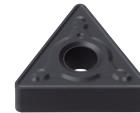
### TNMG-VQ

110304  
160404  
160408  
160412  
220404



### TNMG-VR

160404  
160408  
160412  
160416  
220408  
220412  
220416



### TNMG-VW

160404  
160408



### TNMM-GH

160408  
220408  
220412  
220416  
270616  
270624  
330924



### TNMM-GR

220408  
220412  
220416



### TNMM

160408  
220408  
220412



### TNMX

160402R  
160404R/L  
160408R/L  
220404R  
220408R



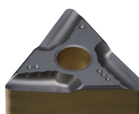
### TNMX-SH

160404R/L  
160408R/L



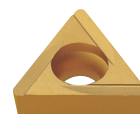
### TNMX-SR

160404R/L  
160408R/L



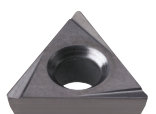
### TOEH

060102L  
090204L  
140304L



### TPGH

080202L  
080204L  
110202L  
110204L





» Para torneado

**TPGN**

090204 160316  
110302 160404  
110304 220404  
110308 220408  
160302 220412  
160304 220430  
160308 220440  
160310 270408  
160312 270608



**TPGR-F**

110302  
110304  
160304



**TPGR-M**

110308  
160308



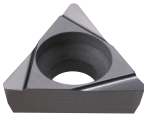
**TPGT**

080202R/L  
110302R/L  
110304R/L  
110308R/L  
160404R/L  
160408R/L



**TPGX**

090202L  
090204L  
090208L  
110304L



**TPMR-F**

090202  
090204  
110302  
110304  
110308  
160304  
160308



**TPMR-M**

110304  
110308  
160304  
160308  
160312  
220408



**TPMT-MP**

090202 160402  
090204 160404  
110302 160408  
110304  
110308



**TPMT-VF**

110304  
110308  
160404  
160408



**TPMT-VL**

090204  
090208  
110304  
110308  
160404  
160408



**TPUN**

090308 220404  
110208 220408  
110304 220412  
110308 330620  
160304 160308TN  
160308 160312TN  
160312 220412TN



**VBGT**

160404  
160408



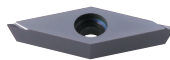
**VBGT-AK/AR**

110302  
110304  
110308  
160402  
160404  
160408  
160412



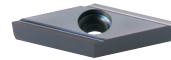
**VBGT-KF**

1103003R/L  
110301R/L  
110302R/L



**VBGT-KM**

1103003R/L  
110301R/L  
110302R/L  
160404R/L



**VBGT-VP1**

110302  
160402  
160404



**VBMT**

160404  
160408



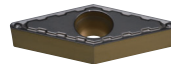
**VBMT-HMP**

110304  
110308  
160404  
160408  
160412



**VBMT-MP**

110302  
110304  
110308  
160402  
160404  
160408  
160412



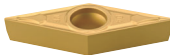
**VBMT-VB**

110302  
110304  
110308  
160402  
160404  
160408  
160412



**VBMT-VF**

160404  
160408



**VBMT-VL**

110302  
110304  
110308  
160402  
160404  
160408  
160412



**VBMT-VP1**

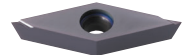
160402  
160404  
160408



**VCET-KF**

Clase con precisión

1103005MFR/L  
110301MFR/L  
110302MFR/L



# Insertos para torneado

## » Para torneado

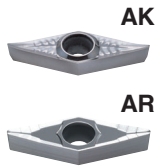
### VCET-KM Clase con precisión

1103005MFR/L  
110301MFR/L  
110302MFR/L



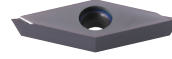
### VCGT-AK / AR

110301 160402  
110302 160404  
110304 160408  
110308 160412  
130302 220516  
130304 220525  
130308 220530



### VCGT-KF

1103003R/L  
110301R/L  
110302R/L



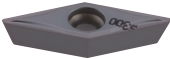
### VCGT-KM

1103003R/L  
110301R/L  
110302R/L



### VCGT-VP1

110301  
110302  
110304  
160404  
160408



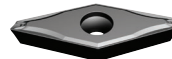
### VCGT-VP1 Clase con precisión

110301MFN  
110302MFN  
110304MFN  
1203008FN  
120301FN  
120302FN  
120304FN



### VCGX-VP1 Clase con precisión

120300MFR  
120301MFR  
120302MFR  
120304MFR  
120308MFR



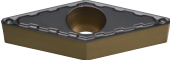
### VCMT-HMP

160404  
160408



### VCMT-MP

080202  
080204  
110302  
110304  
160404  
160408  
160412



### VCMT-VF

080202  
080204  
110304  
160404



### VCMT-VL

080202  
080204  
160404  
160408  
160412



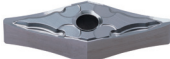
### VCMT-VP1

160404  
160408



### VNGG-HA

160408



### VNGG-VP3

160404  
160408



### VNMG-HM

160404  
160408  
160412



### VNMG-MM

160404  
160408  
160412



### VNMG-LP

160404  
160408  
160412



### VNMG-MK

160404  
160408  
160412



### VNMG-MP

160404  
160408  
160412  
160416



### VNMG-RM

160404  
160408  
160412



### VNMG-VB

160404  
160408  
160412



### VNMG-VC

160404  
160408  
160412



### VNMG-VF

160402  
160404  
160408  
160412



### VNMG-VL

160404  
160408  
160412



» Para torneado

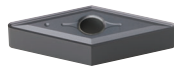
**VNMG-VM**

160404  
160408  
160412  
220404  
220408



**VNMG-VP3**

160404  
160408  
160412



**VNMG-VQ**

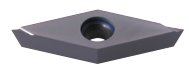
160404  
160408  
160412



**VPET-KF**

Clase con precisión

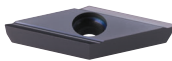
0802005MFR/L  
080201MFR/L  
080202MFR/L



**VPET-KM**

Clase con precisión

0802005MFR/L  
080201MFR/L  
080202MFR/L



**VPGT-VP1**

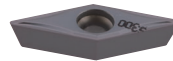
110301  
110302  
110304



**VPGT-VP1**

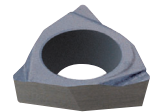
Clase con precisión

110301MFN  
110302MFN  
110304MFN



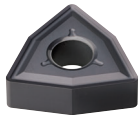
**WBGT**

020102R/L  
S30202L  
S30204R/L



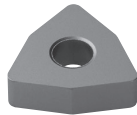
**WNGG-VP3**

080404



**WNMA**

060404  
060408  
060412  
080404  
080408  
080412  
080416



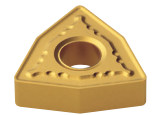
**WNMG-B25**

080404  
080408  
080412



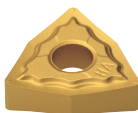
**WNMG-GR**

080404  
080408  
080412  
080416



**WNMG-HA**

060404  
060408  
080404  
080408  
080412



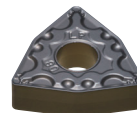
**WNMG-HM**

060404  
060408  
080404  
080408  
080412



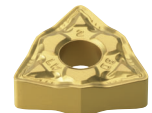
**WNMG-LP**

06T308  
060404  
060408  
060404  
080404  
080408  
080412



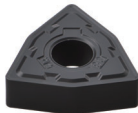
**WNMG-LW**

060408  
060412  
080408  
080412



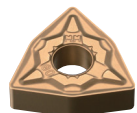
**WNMG-MK**

060408  
080404  
080408  
080412  
080416



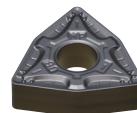
**WNMG-MM**

06T304 080404  
06T308 080408  
06T312 080412  
060404  
060408  
060412



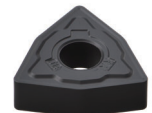
**WNMG-MP**

06T304 080404  
06T308 080408  
060404 080412  
060408 080416  
060412



**WNMG-RK**

060408  
060412  
080404  
080408  
080412  
080416



**WNMG-RM**

060404  
060408  
060412  
080404  
080408  
080412



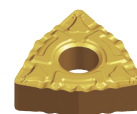
**WNMG-VB**

080404  
080408



**WNMG-VC**

080404  
080408  
080412



**WNMG-VF**

060404  
060408  
080404  
080408  
080412



## » Para torneado

### WNMG-VL

060404  
080404  
080408



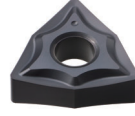
### WNMG-VM

060404  
060408  
060412  
080404  
080408  
080412  
080416



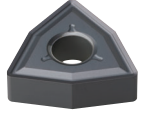
### WNMG-VP2

080404  
080408  
080412



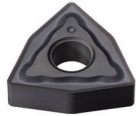
### WNMG-VP3

060408  
060412  
080404  
080408  
080412  
130612



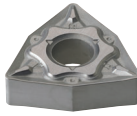
### WNMG-VP4

080408  
080412



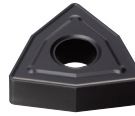
### WNMG-VQ

060404  
060408  
060412  
080404  
080408  
080412



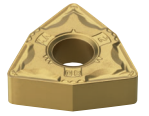
### WNMG-VR

060408  
080404  
080408  
080412  
080416



### WNMG-VW

060404  
060408  
080404  
080408  
080412



### WNMM-B25

100608  
130612



### WNMX-SH

080404R/L  
080408R/L



### WNMX-SR

080404R/L  
080408R/L

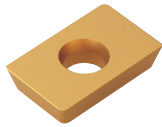


# Insertos para fresado

## » Para fresado

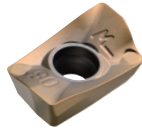
### ADKA

150308R  
150308SR  
150308TR



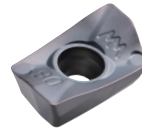
### ADKT-ML

170608PESR



### ADKT-MM

170604PESR  
170608PESR  
170616PESR  
170620PESR



### ADLT

150308R  
150308SR  
150308TR



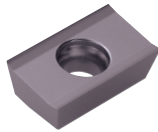
### APKT

1604PDSR



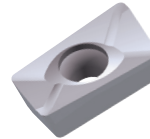
### APKT-MA

1604PDFR  
160416FR



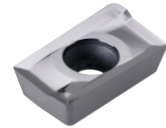
### APKT-MA2

1604PDFR  
160416FR  
160432FR



### APKT-MA3

1604PDFR  
160420FR



### APKT-MF

1604PDSR



### APKT-MM

1604PDSR



### APKT-MM1

160432R



### APLT

070304R



### APMT-MA

0602PDFR 11T308PDFR 180612PDFR  
060208PDFR 160404PDFR 180616PDFR  
0903PDFR 1604PDFR 180620PDFR  
090308PDFR 180604PDFR 180624PDFR  
11T3PDFR 1806PDFR 180630R



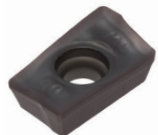
### APMT-MF

11T3PDSR  
1604PDSR  
1806PDSR  
180612PDSR



### APMT-ML

0903PDER 1604PDER 180620PDER  
090308PDER 180604PDER 180624PDER  
11T3PDER 1806PDER 180630R  
11T308PDER 180612PDER  
160404PDER 180616PDER



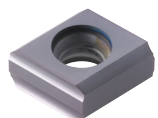
### APMT-MM

060202PDSR 090331R 160416PDSR 180624PDSR  
0602PDSR 090332R 160424R 180630R  
060208PDSR 11T3PDSR 160430R 180632R  
060212R 11T308PDSR 160432R 180640R  
060216R 11T312PDSR 160450R 180648R  
0903PDSR 11T316R 160464R 180650R  
090308PDSR 11T318R 1806PDSR 180660R  
090312R 11T324R 180612PDSR 180664R  
090316R 1604PDSR 180616PDSR  
090320R 160410PDSR 180620PDSR



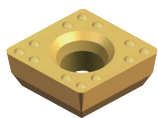
### CNHQ

1005-C0.5  
1305-C0.5  
1606-C0.5



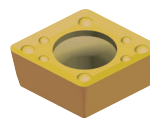
### CPMH-MM

120408



### CPMT-MM

060204  
080308  
09T308



### HECN

090408FN  
090408SN  
090408TN  
110412FN  
110412TN



# Insertos para fresado

## » Para fresado

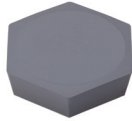
### HPEN

090408FN  
090408SN  
090408EN  
110412FN



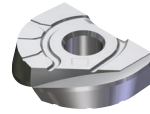
### HPEN-WC

090408  
110412



### LBH

080 300  
100 320  
120 330  
160  
200  
250



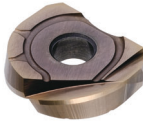
### LBH-KF

080 200  
100 210  
120 250  
130 300  
160 320  
170 330



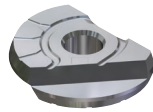
### LBH-KH

080 200  
100 210  
120 250  
130 260  
160 300  
170 320  
330



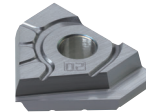
### LBS

080 200  
090 210  
100 250  
110 260  
120 300  
130 310  
160 320  
170



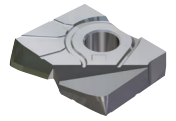
### LCF

160-D90  
200-D90  
250-D90



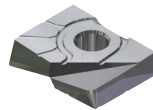
### LFH

100  
120  
160  
200  
250  
300  
320



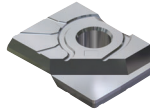
### LRH / LR

100-R05	130-R10	200-R10	260-R05	320-R30
100-R10	160-R05	200-R20	260-R10	330-R05
100-R20	160-R10	200-R30	300-R10	330-R10
110-R05	160-R20	210-R05	300-R20	330-R20
120-R05	160-R30	250-R05	300-R30	330-R30
120-R10	170-R05	250-R10	310-R05	
120-R20	170-R10	250-R20	320-R10	
130-R05	200-R05	250-R30	320-R20	



LRH

Tipo Especial



LR

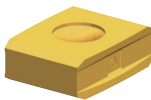
### LDET

650540PPFR-MA  
650550PPFR-MA



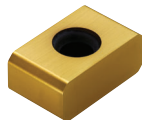
### LNCS

1907-C1.5-WC  
1907-R3.0-WC



### LNE

324-R0.8  
324-C1.0



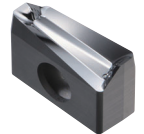
### LNEX-MA

100605PNR  
151004PNR  
151008PNR



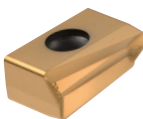
### LNKT-MA

080404PNR-MA  
080408PNR-MA  
140608PNR-MA  
170704PNR-MA  
170708PNR-MA  
170712PNR-MA  
170716PNR-MA  
170720PNR-MA



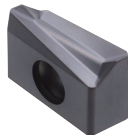
### LNKT-ML

080404PNR-ML  
080408PNR-ML  
140608PNR-ML  
170704PNR-ML  
170708PNR-ML  
170712PNR-ML  
170716PNR-ML  
170720PNR-ML



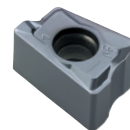
### LNKT-MM

080404PNR-MM  
080408PNR-MM  
140608PNR-MM  
170704PNR-MM  
170708PNR-MM  
170712PNR-MM  
170716PNR-MM  
170720PNR-MM



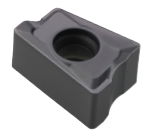
### LNM(E)X-MF

100605PNR  
100608PNR  
151004PNR  
151008PNR  
151016PNR



### LNM(E)X-MM

100605PNR  
100608PNR  
100605PNL  
151004PNR  
151008PNR  
151016PNR  
151008PNL



### LNMX-MF

060310



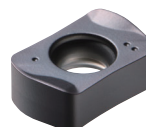
### LNMX-ML

060310



### LNMX-MM

060310



### LPEW

040210R  
040220R



» Para fresado

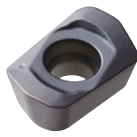
**LPMT-MF**

040210R  
040220R



**LPMW**

040210R  
040220R



**LXET-MA**

250404PEFR-32	250412PEFR-40	340504PEFR-63
2504PEFR-32	250416PEFR-40	3405PEFR-63
250412PEFR-32	340504PEFR-50	340512PEFR-63
250416PEFR-32	3405PEFR-50	340516PEFR-63
250404PEFR-40	340512PEFR-50	
2504PEFR-40	340516PEFR-50	



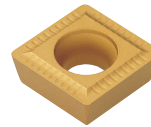
**LXET-ML**

250404PEER-32	250412PEER-40	340504PEER-63
2504PEER-32	250416PEER-40	3405PEER-63
250412PEER-32	340504PEER-50	340512PEER-63
250416PEER-32	3405PEER-50	340516PEER-63
250404PEER-40	340512PEER-50	
2504PEER-40	340516PEER-50	



**MPMT**

090308  
120408



**OFCN**

0704SN  
0704FN  
070408SN  
070408FN  
070408TN



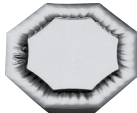
**OFCW**

05T3SN  
05T3FN  
05T308FN



**OFKR-MA**

0704FN  
0704EN



**OFKR-MF**

0704SN  
070408SN



**OFKR-MM**

0704SN  
070408SN



**OFKT-MA**

05T3FN  
05T3EN  
0704FN  
0704EN



**OFKT-MF**

05T3SN  
05T308SN



**OFKT-MM**

05T3SN  
05T308SN  
0704SN



**ONHX-MF**

060608  
080608  
0606ANN  
0806ANN



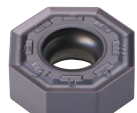
**ONHX-ML**

060608  
080608



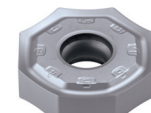
**ONHX-MM**

060608  
080608  
0606ANN  
0806ANN



**ONHX-MA**

060608  
080608



**ONHX-W**

060608  
080608



**ONMX-MF**

060608  
080608  
0606ANN  
0806ANN



**ONMX-MM**

060608  
080608  
0606ANN  
0806ANN



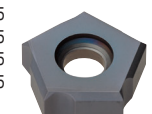
**PNEJ**

1223N 1260N  
1225N 1265N  
1230N 1270N  
1235N 1275N  
1240N 1285N  
1245N  
1250N  
1255N



**PNEJ-C**

1223N-C03 1260N-C05  
1230N-C03 1265N-C05  
1235N-C03 1270N-C05  
1240N-C05 1275N-C05  
1245N-C05  
1250N-C05  
1255N-C05



# Insertos para fresado

## » Para fresado

### RC

16  
20  
25  
30  
32



### RDCT-MA

10T3M0  
1204M0



### RDHW

0501M0F 0803M0F  
0501M0E 0803M0E  
0501M0S 0803M0S  
06T1M0F 1605M0F  
06T1M0E 1605M0E  
06T1M0S 1605M0S  
0702M0F 2006M0F  
0702M0E 2006M0E  
0702M0S 2006M0S



### RDKT-MF

10T3M0  
1204M0  
1605M0



### RDKT-ML

1605M0



### RDKT-MM

10T3M0  
1204M0  
1605M0  
2006M0



### RDKW

0501M0E  
06T1M0E  
0702M0E  
0803M0E



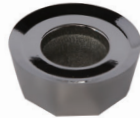
### REKR-MM

170400



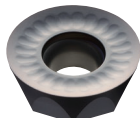
### RPCT-MA

10T3M0  
1204M0  
1606M0  
2007M0



### RPET-ML

0803M0E  
103TM0E  
1204M0E  
1606M0E  
2007M0E



### RPMT-MF

0803M0E  
10T3M0E  
1204M0E  
1606M0E  
2007M0E



### RPMT-MM

0803M0S  
10T3M0S  
1204M0S  
1606M0S  
2007M0S



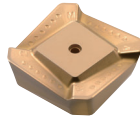
### RPMW

0803M0E1  
10T3M0E1  
1204M0S1  
1204M0S2  
1606M0S1  
2007M0S1



### SCKN

220715DDSR-MM  
280920DDSR-MM



### SDCN

42M	53M-G	1203AESN
42M-G	53MT	1203AESN-RH
42MT	53MT-RH	1504AEEN
42MT-RH	53MT-S20	1504AEEN-RH
42MT-S20	1203AEEN	1504AEEN
53M	1203AEEN-RH	1504AEEN-RH



### SDET-MA

09M402R  
09M404R  
09M405R  
130504R



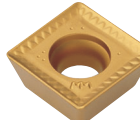
### SDET-MF

09M405R  
130508R



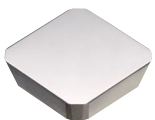
### SDET-MM

09M405R  
130508R



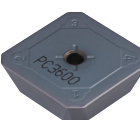
### SDKN-CM

42MT



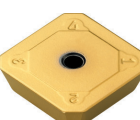
### SDKN-MU

1203AESN  
1504AESN



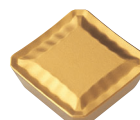
### SDKN-SU

1203AESN  
1504AESN



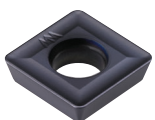
### SDKR-MX

1203AESN  
1203AETN  
1203AEN  
1504AESN  
1504AETN  
1504AEN



### SDMT-MM

090308





» Para fresado

**SDXT-MA**

09M405R  
130508R



**SDXT-MF**

09M403R  
09M403L  
09M404R  
09M404L  
09M405R  
09M405L  
130508R



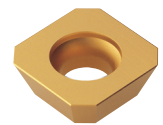
**SDXT-MM**

09M405R  
09M405L  
130508R  
130508L  
130538



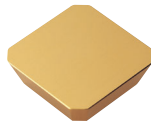
**SECA**

1204AFSN  
1204AFTN  
1204AFFN  
1204AFEN  
1504AFSN  
1504AFTN  
1504AFFN



**SECN**

1203AFFN  
1203AFTN  
1203AFEN  
1203AFSN  
1203AFEN-RH  
1203AFSN-RH  
1203AFTN-S20  
1504AFEN  
1504AFFN  
1504AFTN  
1504AFEN  
1504AFSN  
1504AFEN-RH  
1504AFSN-RH  
1504AFTN-S20



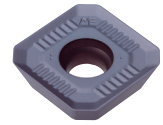
**SEET-MA**

0903AGFN  
14M4AGFN



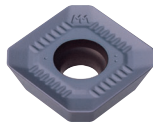
**SEET-MF**

0903AGSN  
14M4AGSN



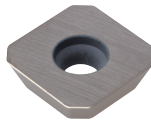
**SEET-MM**

0903AGSN  
14M4AGSN



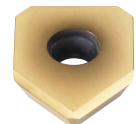
**SEEW**

0903AGTN  
14M4AGTN



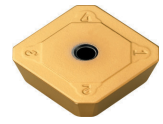
**SEEW-W**

14M4AGFN  
14M4AGSN  
14M4AGTN



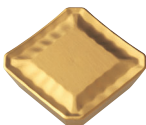
**SEKN-SU**

1203AFSN  
1504AFSN



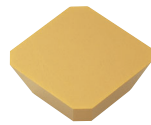
**SEKR-MX**

1203AFSN  
1504AFSN



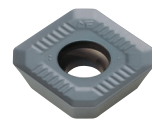
**SEMN**

1204AZ



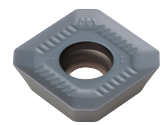
**SEXT-MF**

0903AGSN  
14M4AGSN



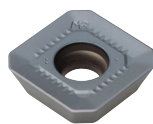
**SEXT-MM**

0903AGSN  
14M4AGSN



**SEXT-MR**

0903AGSN  
14M4AGSN



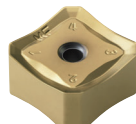
**SFCN**

1203EFR



**SNC(M)F-MF**

1206ANN  
1507ANN



**SNC(M)F-MF**

1206ENN  
1507ENN



**SNC(M)F-MF**

1206QNN



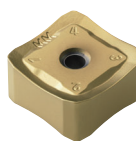
**SNC(M)F-MM**

1206ANN  
1507ANN



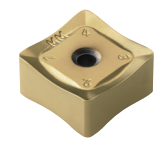
**SNC(M)F-MM**

1206ENN  
1507ENN



**SNC(M)F-MM**

1206QNN

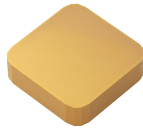


# Insertos para fresado

## » Para fresado

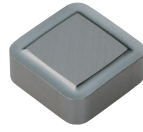
### SNCN

1204ENN  
1504ENN



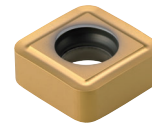
### SNEF

435  
535



### SNEU-MF

120420



### SNEU-MF

1204ANN



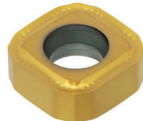
### SNEU-TBW

1204



### SNEU-WMF

1204R



### SNEX

101010  
1010ZNN



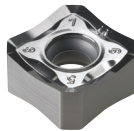
### SNEX-CU1

101010  
1010ZNN  
121212  
1212ZNN



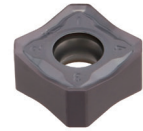
### SNEX-MA

1206ANN  
1206ENN  
1206QNN  
120612



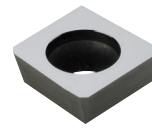
### SNEX-ML

1206ANN  
1206ENN  
1206QNN  
120612  
1507ANN  
1507ENN



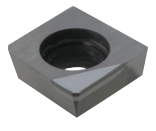
### SNEW

09T3ADFR



### SNEW-NAF

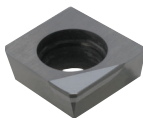
09T3ADTR-NAF  
09T3ADTR-NAW



• NAW: Inserto wiper

### SNEW-XAF

09T3ADTR-XAF  
09T3ADTR-XAW



• NAW: Inserto wiper

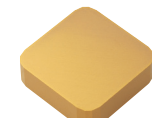
### SNHT-WX

1102308R/L  
110308R/L  
120308R/L  
1203508R/L  
120408R/L  
1204508R/L  
120508R/L  
1205408R/L  
120608R/L  
1206508R/L  
120708R/L  
1207508R/L



### SNKN

1204ENN  
1504ENN



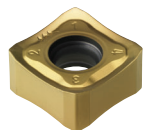
### SNM(E)X-MF

1206ANN  
1507ANN



### SNM(E)X-MF

1206ENN  
1507ENN



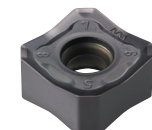
### SNM(E)X-MF

1206QNN  
120612



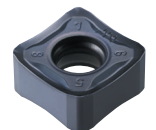
### SNM(E)X-MM

1206ANN  
1507ANN



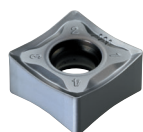
### SNM(E)X-MM

1206ENN  
1507ENN



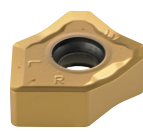
### SNM(E)X-MM

1206QNN  
120612



### SNEX-W

1206ANN



### SPCN

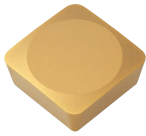
1203EDR	1203EDTR-RH	1504EDR-G
1203EDR-RH	1203EDR-S20	1504EDR-RN
1203EDL	150412T	1504EDER-RH
1203EDR-G	1504EDR	1504EDSR-RH
1203EDR-FN	1504EDR-RH	1504EDTR-RH
1203EDER-RH	1504EDSR	1504EDR-S20
1203EDSR-RH	1504EDL	



» Para fresado

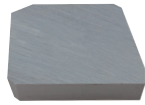
**SPEN-WC**

120416  
150412  
150416  
150420  
190424



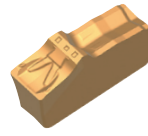
**SPEX**

1203EDR-1  
1203EDL-1  
1504EDR-1  
1504EDL-1



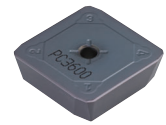
**SPFN**

200-N  
300-N  
400-N



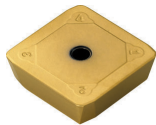
**SPKN-MU**

1203EDSR  
1504EDSR



**SPKN-SU**

1203EDSR  
1203EDSL  
1504EDSR  
1504EDSL



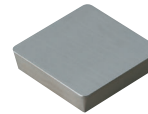
**SPKR-MX**

1203EDSR  
1203EDSL  
1504EDR  
1504EDSR



**SPMN**

120308



**SPMT**

060304



**SPMT-KC**

110408



**SPMT-MM**

120408-MM  
120508-MMN



**TEC(E)N**

**TECN**

22R 43R-G  
22TR 43TR-Z  
32R 43TR  
32R-G  
32TR  
32TR-S20



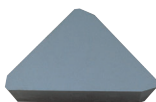
**TEEN**

43R-Z  
43TR-Z  
43TR-ZH  
43R  
43R-G  
43TR  
43TR-S20



**TFCN**

2203PFR  
2203PFL



**TNMX-NM**

2710AZNR  
2710AZNL  
3012PNR



**TPCN**

1103PPN	1603PPSR	1603PDR-RN	2204PDTR
1103PPTN	1603PPTN	2204PDR	2204PPN
1603PDR	1603PPTR	2204PDR-RH	2204PPTN
1603PPN	1603PPR-RH	2204PDR-RN	2204PDR-RH
1603PPR	1603PDER-RH	2204PDR-G	2204PDER-RH
1603PPR-RH	1603PDSR-RH	2204PDL	2204PDSR-RH
1603PPR-G	1603PDR-S20	2204PDSR	2204PDR-S20



**TPKN-MU**

220530N



**TPKN-SU**

1603PDSR  
1603PDSL  
2204PDSR  
2204PDSL



**TPKR-MX**

1603PDSN  
1603PDSR  
1603PPR  
1603PPSN  
1603PPSR  
2204PDR  
2204PDSR  
2204PPR



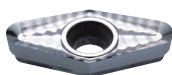
**TWX-KC**

16R  
22R



**VCKT-MA**

220530N



**VDKT-MA**

11T210N  
11T220N



**WDKT-MH**

080316ZDSR  
10T320ZDSR  
130520ZDSR  
150625ZDSR



**WNGX-MA**

040304PNFR  
040308PNFR  
040312PNFR  
040316PNFR  
080604PNFR  
080608PNFR  
080612PNFR  
080616PNFR  
080620PNFR

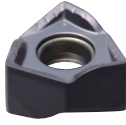


# Insertos para fresado

## Para fresado

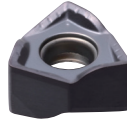
### WNGX-ML

040304PNER  
040308PNER  
040312PNER  
040316PNER  
080604PNER  
080608PNER  
080612PNER  
080616PNER  
080620PNER



### WNGX-MM

040304PNSR  
040308PNSR  
040312PNSR  
040316PNSR  
080604PNSR  
080608PNSR  
080612PNSR  
080616PNSR  
080620PNSR



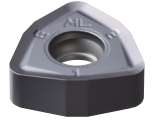
### WNMX-MF

060312ZNN  
09T316ZNN  
130520ZNN  
160720ZNN



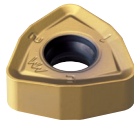
### WNMX-ML

060312ZNN  
09T316ZNN  
130520ZNN  
160720ZNN



### WNMX-MM

060312ZNN  
09T316ZNN  
130520ZNN  
160720ZNN



### XCET-KC

310404ER



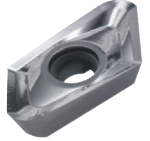
### XDET-MA

190504PEFR  
190508PEFR  
190512PEFR  
190516PEFR  
190520PEFR  
190524PEFR  
190530PEFR  
190532PEFR  
190540PEFR  
190550PEFR



### XEKT-MA

19M504FR 250604FR  
19M508FR 250608FR  
19M512FR 250612FR  
19M516FR 250616FR  
19M518FR 250620FR  
19M520FR 250630FR  
19M530FR 250632FR  
19M532FR 250640FR  
19M540FR 250650FR  
19M550FR



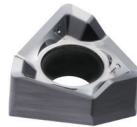
### XEKT-ML

19M504FR 250604FR  
19M508FR 250608FR  
19M512FR 250612FR  
19M516FR 250616FR  
19M518FR 250620FR  
19M520FR 250630FR  
19M530FR 250632FR  
19M532FR 250640FR  
19M540FR 250650FR  
19M550FR



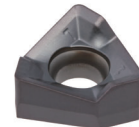
### XNCT-MA

080504PNFR  
080508PNFR  
080512PNFR  
080520PNFR  
120608PNFR



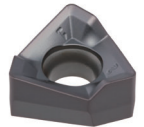
### XNKT-ML

060405PNER  
060408PNER  
080504PNER  
080508PNER  
080512PNER  
080516PNER  
080520PNER  
120608PNER  
120612PNER  
120616PNER  
120620PNER



### XNKT-MM

060405PNSR  
060408PNSR  
080504PNSR  
080508PNSR  
080512PNSR  
080516PNSR  
080520PNSR  
120604PNSR  
120608PNSR  
120612PNSR  
120616PNSR  
120620PNSR



### XPMT-MM

0802ER  
1003ER  
13T3ER  
1604ER  
1805ER  
2006ER  
2507ER



### ZDMT-R-MM

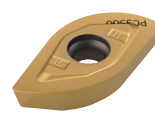
080310R  
110312.5R  
130416R



### ZPET-MM

Interior

080M 140M  
090M 150M  
100M 160M  
110M 200M  
125M 250M  
130M



### ZPET-MM

Exterior

080S 140S  
090S 150S  
100S 160S  
110S 200S  
125S 250S  
130S



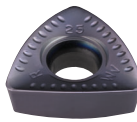
### ZPMT-MM

1504PPSR-MM  
1505PPSR-MMN



### ZPMT-R-MM

160520R  
160525R  
160531.5R



### ZPMT-R-MR

160525R



# Insertos para taladrado

## » Para taladrado

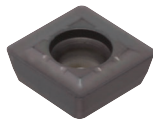
### SPET-ND

040204 11T308  
050204 130410  
060205 15M510  
07T208 180510  
090308



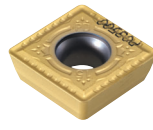
### SPMT-LD

060205  
07T208  
090308  
11T308  
130410  
15M510  
180510



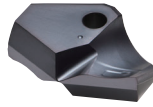
### SPMT-PD

040204 11T308  
050204 130410  
060205 15M510  
07T208 180510  
090308



### TPDB Plus

TPD100B ~ 109B	TPD180B ~ 189B	TPD260B ~ 269B
TPD110B ~ 119B	TPD190B ~ 199B	TPD270B ~ 279B
TPD120B ~ 129B	TPD200B ~ 209B	TPD280B ~ 289B
TPD130B ~ 139B	TPD210B ~ 219B	TPD290B ~ 299B
TPD140B ~ 149B	TPD220B ~ 229B	TPD300B ~ 309B
TPD150B ~ 159B	TPD230B ~ 239B	TPD310B ~ 319B
TPD160B ~ 169B	TPD240B ~ 249B	TPD320B ~ 329B
TPD170B ~ 179B	TPD250B ~ 259B	



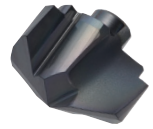
### TPDB-H

TPD140B-H ~ 149B-H	TPD230B-H ~ 239B-H
TPD150B-H ~ 159B-H	TPD240B-H ~ 249B-H
TPD160B-H ~ 169B-H	TPD250B-H ~ 259B-H
TPD170B-H ~ 179B-H	TPD260B-H ~ 269B-H
TPD180B-H ~ 189B-H	TPD270B-H ~ 279B-H
TPD190B-H ~ 199B-H	TPD280B-H ~ 289B-H
TPD200B-H ~ 209B-H	TPD290B-H ~ 299B-H
TPD210B-H ~ 219B-H	TPD300B-H ~ 309B-H
TPD220B-H ~ 229B-H	



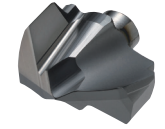
### TPD-CP

TPDC12□□	TPDC19□□	TPDC26□□
TPDC13□□	TPDC20□□	TPDC27□□
TPDC14□□	TPDC21□□	TPDC28□□
TPDC15□□	TPDC22□□	TPDC29□□
TPDC16□□	TPDC23□□	TPDC30□□
TPDC17□□	TPDC24□□	
TPDC18□□	TPDC25□□	



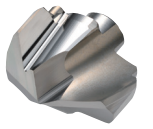
### TPD-CM

TPDC12□□	TPDC19□□	TPDC26□□
TPDC13□□	TPDC20□□	TPDC27□□
TPDC14□□	TPDC21□□	TPDC28□□
TPDC15□□	TPDC22□□	TPDC29□□
TPDC16□□	TPDC23□□	TPDC30□□
TPDC17□□	TPDC24□□	
TPDC18□□	TPDC25□□	



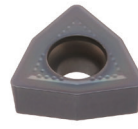
### TPD-CN

TPDC12□□	TPDC19□□	TPDC26□□
TPDC13□□	TPDC20□□	TPDC27□□
TPDC14□□	TPDC21□□	TPDC28□□
TPDC15□□	TPDC22□□	TPDC29□□
TPDC16□□	TPDC23□□	TPDC30□□
TPDC17□□	TPDC24□□	
TPDC18□□	TPDC25□□	



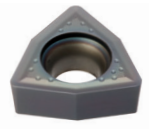
### WCMT-C20N

030208  
040208  
050308  
06T308  
080408  
080412



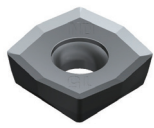
### WCMT-C21N

030204  
040204  
040208  
050308  
06T308  
080408



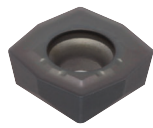
### XOET-ND

040204  
050204  
060204  
07T205  
090305  
11T306  
130406  
15M508  
180508



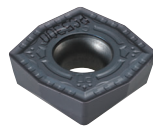
### XOMT-LD

060204  
07T205  
090305  
11T306  
130406  
15M508  
180508



### XOMT-PD

040204  
050204  
060204  
07T205  
090305  
11T306  
130406  
15M508  
180508



### XOMT-RD

07T207  
090308  
11T309  
130410  
15M511  
180512

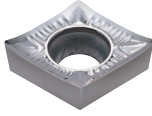


# Inserto para mecanizado en aluminio

## » Para torneado

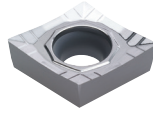
### CCGT-AK

060202 120402  
060204 120404  
060208 120408  
09T302  
09T304  
09T308



### CCGT-AR

060202 120402  
060204 120404  
060208 120408  
09T302 120412  
09T304  
09T308



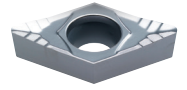
### DCGT-AK

070202  
070204  
070208  
11T302  
11T304  
11T308  
11T312



### DCGT-AR

070202  
070204  
070208  
11T302  
11T304  
11T308  
11T312



### RCGT-AK

0602M0  
0803M0  
1003M0  
10T3M  
1204M0



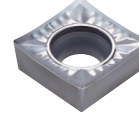
### RCGT-AR

0602M0  
0803M0  
1003M0  
10T3M  
1204M0



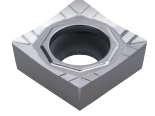
### SCGT-AK

09T302  
09T304  
09T308  
120404  
120408  
120416



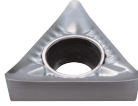
### SCGT-AR

09T302  
09T304  
09T308  
120404  
120408  
120416



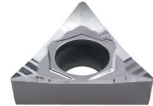
### TCGT-AK

090202 16T302  
090204 16T304  
110202 16T308  
110204 16T312  
110208 16T316  
16T325



### TCGT-AR

090202 16T302  
090204 16T304  
110202 16T308  
110204 16T312  
110208 16T316  
16T325



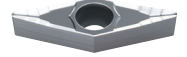
### VBGT-AK

110302  
110304  
110308  
160402  
160404  
160408  
160412



### VBGT-AR

110302  
110304  
110308  
160402  
160404  
160408  
160412



### VCGT-AK

110301 160402  
110302 160404  
110304 160408  
110308 160412  
130302 220516  
130304 220525  
130308 220530



### VCGT-AR

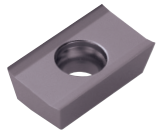
110301 160402  
110302 160404  
110304 160408  
110308 160412  
130302 220516  
130304 220525  
130308 220530



» Para fresado

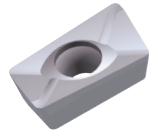
**APKT-MA**

1604PDFR  
160416FR



**APKT-MA2**

1604PDFR  
160416FR  
160432FR



**APKT-MA3**

1604PDFR  
160420FR



**APMT-MA**

0602PDFR 11T308PDFR 180612PDFR  
060208PDFR 160404PDFR 180616PDFR  
0903PDFR 1604PDFR 180620PDFR  
090308PDFR 180604PDFR 180624PDFR  
11T3PDFR 1806PDFR 180630R



**CDEW-XCF**

1204R  
1204L



**LNEX-MA**

100605PNR  
151004PNR  
151008PNR



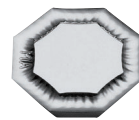
**LXET-MA**

250404PEFR-32 250412PEFR-40 340504PEFR-63  
2504PEFR-32 250416PEFR-40 3405PEFR-63  
250412PEFR-32 340504PEFR-50 340512PEFR-63  
250416PEFR-32 3405PEFR-50 340516PEFR-63  
250404PEFR-40 340512PEFR-50  
2504PEFR-40 340516PEFR-50



**OFKR-MA**

0704FN  
0704EN



**OFKT-MA**

05T3FN  
05T3EN  
0704FN  
0704EN



**ONHX-MA**

060608  
080608



**RDCT-MA**

10T3M0  
1204M0



**RPCT-MA**

10T3M0  
1204M0  
1606M0  
2007M0



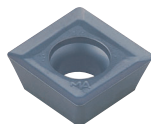
**SDET-MA**

09M402R  
09M404R  
09M405R  
130504R



**SDXT-MA**

09M405R  
130508R



**SEET-MA**

0903AGFN  
14M4AGFN



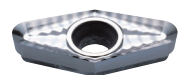
**SNEX-MA**

1206ANN  
1206ENN  
1206QNN  
120612



**VCKT-MA**

220530N



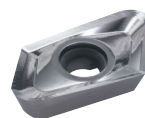
**VDKT-MA**

11T210N  
11T220N



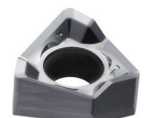
**XEKT-MA**

19M504FR 19M520FR 250604FR 250630FR  
19M508FR 19M530FR 250608FR 250632FR  
19M512FR 19M532FR 250612FR 250640FR  
19M516FR 19M540FR 250616FR 250650FR  
19M518FR 19M550FR 250620FR



**XNCT-MA**

080508PNFR

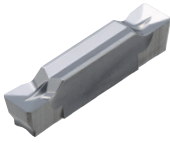


# Inserto para mecanizado en aluminio

## » Para ranurado

### KGGN-A

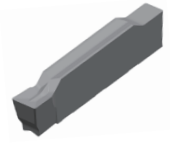
200-02  
300-02  
400-04  
500-04  
600-04



### KGGN-A

Tipo sigular

200S-02  
300S-02  
400S-04  
500S-04  
600S-04



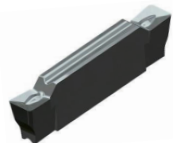
### KRGN-A

300  
400  
500  
600  
800



### MGGN-A

300-02 500-02  
300-04 500-04  
300-08 500-08  
400-02  
400-04  
400-08



### MRGN-A

300  
400  
500  
600  
800



### MRGN-A

6N  
8N



### MRGN-A5

6N  
8N



### MRGN-AM

6N  
8N



### MRGN-AP

6N  
8N



### MVGN

8N-A-R1.2  
8N-A-R1.6



## » Para taladrado

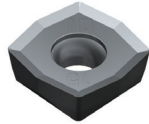
### SPET-ND

040204 11T308  
050204 130410  
060205 15M510  
07T208 180510  
090308



### XOET-ND

040204 11T306  
050204 130406  
060204 15M508  
07T205 180508  
090305





# Insertos para herramientas multifuncionales



## KGGN-A

Porta  
KGEHR/L  
KGEVR/L  
KGFHR/L  
KGFVR/L

Ancho  
: 2.0 ~ 6.0mm

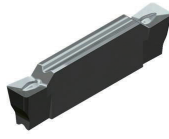


## KGGN-A

Tipo sigular

Porta  
KGTB

Ancho  
: 2.0 ~ 6.0mm



## KGGN-B

Porta  
KGEHR/L  
KGEVR/L  
KGFHR/L  
KGFVR/L

Ancho  
: 2.65 ~ 8.0mm



## KGGN-R

Porta  
KGEHR/L  
KGEVR/L  
KGFHR/L  
KGFVR/L

Ancho  
: 2.0 ~ 8.0mm

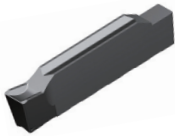


## KGGN-R

Tipo sigular

Porta  
KGTB

Ancho  
: 2.0 ~ 8.0mm



## KGMI-T

Porta  
KGIVR/L

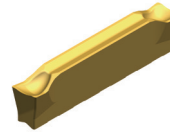
Ancho  
: 2.0 ~ 4.0mm



## KGML-LP

Porta  
KGEHR/L

Ancho  
: 2.0 ~ 4.0mm



## KGML-RP

Porta  
KGEHR/L

Ancho  
: 2.0 ~ 4.0mm



## KGMN-L

Porta  
KGEHR/L  
KGEVR/L  
KGFHR/L  
KGFVR/L  
KGIVR/L

Ancho  
: 2.0 ~ 6.0mm



## KGMN-R

Porta  
KGEHR/L  
KGEVR/L  
KGFHR/L  
KGFVR/L  
KGIVR/L

Ancho  
: 1.5 ~ 8.0mm



## KGMN-T

Porta  
KGEHR/L  
KGEVR/L  
KGFHR/L  
KGFVR/L  
KGIVR/L

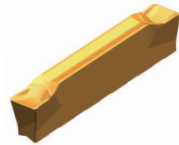
Ancho  
: 1.5 ~ 8.0mm



## KGMR-LP

Porta  
KGEHR/L

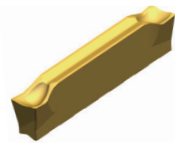
Ancho  
: 2.0 ~ 5.0mm



## KGMR-RP

Porta  
KGEHR/L

Ancho  
: 2.0 ~ 5.0mm



## KRGN-A

Porta  
KGEHR/L  
KGEVR/L  
KGEUR/L  
KGFHR/L  
KGFVR/L  
KGIUR/L

Ancho  
: 3.0 ~ 8.0mm



## KRMI-C

Porta  
KGIVR/L

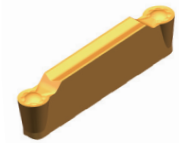
Ancho  
: 2.0 ~ 4.0mm



## KRMN-C

Porta  
KGEHR/L  
KGEVR/L  
KGEUR/L  
KGFHR/L  
KGFVR/L  
KGIVR/L  
KGIUR/L

Ancho  
: 2.0 ~ 8.0mm



## MFMN

Porta  
MGFHR/L  
MGFVR/L

Ancho  
: 3.0mm



## MGGN-A

Porta  
MGEHR/L  
MGEVR/L  
MGIVR/L

Ancho  
: 3.0 ~ 5.0mm



## MGGN-M

Porta  
MGEHR/L  
MGEVR/L  
MGIVR/L

Ancho  
: 3.0 ~ 6.0mm



## MGMN-G

Porta  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

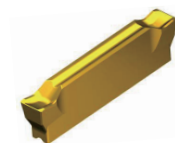
Ancho  
: 1.5 ~ 6.0mm



## MGMN-L

Porta  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

Ancho  
: 2.0 ~ 5.0mm



## MGMN-M

Porta  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

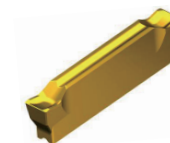
Ancho  
: 2.0 ~ 8.0mm



## MGMN-R

Porta  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

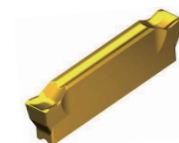
Ancho  
: 1.5 ~ 6.0mm



## MGMN-T

Porta  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

Ancho  
: 1.5 ~ 6.0mm



# Insertos para herramientas multifuncionales

## » MGT

### MGMR/L-PS

Porta  
MGEHR/L

Ancho  
: 3.0 ~ 5.0mm



### MGMR/L-PT

Porta  
MGEHR/L

Ancho  
: 2.0 ~ 5.0mm



### MRGN-A

Porta  
MGEHR/L  
MGEUR/L  
MGEVR/L  
MGIUR/L  
MGIVR/L

Ancho  
: 4.0 ~ 5.0mm



### MRMN-M

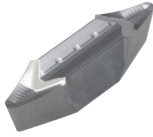
Porta  
MGEHR/L  
MGEUR/L  
MGEVR/L  
MGIUR/L  
MGIVR/L

Ancho  
: 2.0 ~ 8.0mm



## » MVGN

Porta  
MGEXR/L  
MGIUR/L-MV

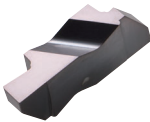


## » K Notch

### KNG

Porta  
KNSR

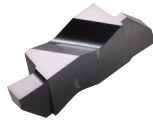
Ancho  
: 0.79 ~ 6.35mm



### KNGP

Porta  
KNSR

Ancho  
: 0.79 ~ 6.35mm



### KNR

Porta  
KNSR

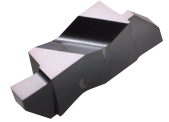
Ancho  
: 1.57 ~ 6.35mm



### KNRP

Porta  
KNSR

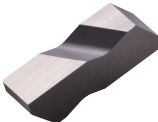
Ancho  
: 1.57 ~ 6.35mm



### KNB

Porta  
KNSR

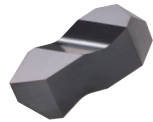
Ancho  
: 3.81 ~ 6.48mm



### KNT

Porta  
KNSR

Ancho  
: 3.81 ~ 6.48mm



## » Para tronzado

### KSP

200-020-N  
300-020-N  
400-025-N  
500-025-N  
600-035-N

Porta  
KSPB



### SP

160 300L 600  
180 400 600R  
200 400R 600L  
200R 400L 800  
200L 500 900  
300 500R  
300R 500L

Porta  
SPB/SPB-S, SPH/SPH-S



### POB

Porta  
PH

Ancho  
: 3.0 ~ 5.0mm



### BF

Porta  
GFT, GFIP

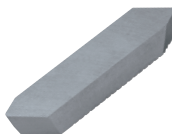


## » Para ranurado

### ESB

Porta  
EH

Ancho  
: 9.525mm



### DB

Porta  
DBH

Ancho  
: 3.0 ~ 8.0mm



### DC

Porta  
DBH

Ancho  
: 3.0 ~ 5.0mm



### FGD/FGM/FMM

Porta  
FGHH  
FGVH

Ancho  
: 3.0 ~ 5.0mm



## » Para ranurado

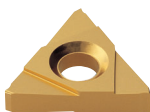
### GO

Porta  
GH  
Ancho  
: 2.5 ~ 4.1mm



### GS

Porta  
GH  
Ancho  
: 1.23 ~ 4.28mm



### GW

Porta  
GFT  
GFIP  
Ancho  
: 1.1~8.0mm



### IG

Porta  
IGH  
Ancho  
: 1.25 ~ 2.8mm



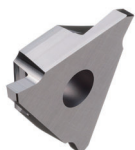
### GR

Porta  
GFT  
GFIP  
Ancho  
: 2.0 ~ 8.0mm



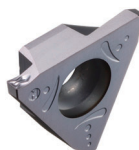
### TB

Porta  
TBH  
Ancho  
TB3: 1.25 ~ 4.3mm  
TB4: 1.25 ~ 4.5mm



### TB-M

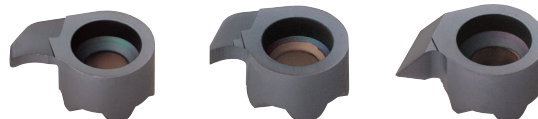
Porta  
TBH  
Ancho  
TB4-M: 1.5 ~ 4.5mm  
TB5-M: 0.5 ~ 3.18mm



## » Para torneado interior de agujeros pequeños

### NFTF, NFTG, NFTT

Porta : NFTIH  
※ Para ranurado interior, roscado y copiado



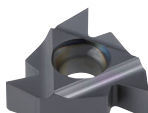
## » Para roscado

### < Estándar >

- Perfil parcial de 60°
- Perfil parcial de 55°
- ISO Métrico (Perfil completo)
- American UN (Perfil completo)  
UN, UNC, UNF, UNEF
- Whitworth (Perfil completo)  
BSW, BSF, BSP
- Rosca british standard pipe thread  
(BSPT) (perfil completo)
- Roscado de tubería nacional  
(Perfil completo) NPT
- Rosca de sello seco de tubería  
nacional (Perfil completo) NPTF
- Redondo DIN 405
- Trapez DIN 103
- ACME américa
- Stub ACME
- UNJ
- American Buttress
- British Buttress
- Metric Buttress-Sagengewinde
- API
- API Buttress Casing
- API Round Casing & Tubing
- EL-Extreme Line

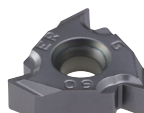
### ER

Porta  
ER(L)H / ER(L)H-C



### ERM

Porta  
ER(L)H / ER(L)H-C



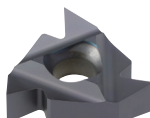
### ERM-U

Porta  
ER(L)H / ER(L)H-C



### IR

Porta  
IR(L)H / IR(L)H-C



### IRM

Porta  
IR(L)H / IR(L)H-C



### IRM-U

Porta  
IR(L)H / IR(L)H-C

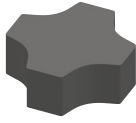


# ◀ Insertos parar rodamiento ▶

## » Para biselado en forma R

### MC

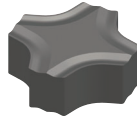
0906 1212 1525  
0910 1215 1530  
1206 1220 1540  
1210 1225



**Porta**  
CMSN...F  
CMSN...B

### MC

1206 1220  
1210 1230  
1212 1235  
1215

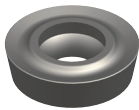


**Porta**  
CMSN...F  
CMSN...B

## » Para torneado interior

### RPGT

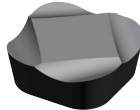
0802M0 1604M0  
1203M0 2004M0



**Porta**  
SRGP...E  
SRGP...F  
SRGP...B

### SPGH

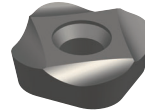
120440L



**Porta**  
CSKP...B

### SPGH

090330L

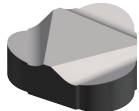


**Porta**  
SSKP...B

## » Maquinado para camino de carra

### KORIC

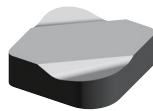
2204R/L 3806R/L  
2704R/L 4408R/L  
3306R/L



**Porta**  
CKFN...RW  
CKGN...RW

### SNGN-W

0903WR/L  
1504WR/L  
1905WR/L



**Porta**  
CSGN...RW

## » Mecanizado para escudo de rodamiento

### SNGN-S

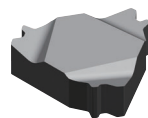
0903SR/L  
1204SR/L  
1504SR/L



**Porta**  
CSBN...BS  
CSKN...BS

### TNGN

2204SR/L



**Porta**  
STGN...BS

### SP

160 300R 500R  
180 300L 500L  
200 400 600  
200R 400R 600R  
200L 400L 600L  
300 500

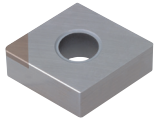


**Porta**  
SPB-S

» Tipo rectificado (Negativo/Positivo)

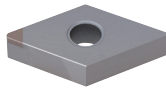
**CNMA**

120404  
120408



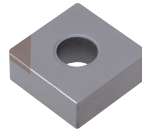
**DNMA**

150404  
150408



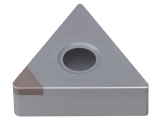
**SNMA**

Porta  
KNSR



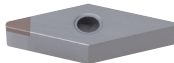
**TNMA**

160404  
160408



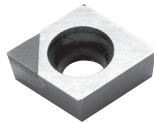
**VNMA**

160404  
160408



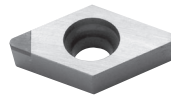
**CCMW**

09T304



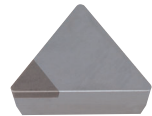
**DCGW**

11T308



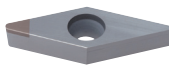
**TPGB**

110304  
110308



**VBMW**

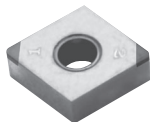
160404  
160408



» Tipo de bordes-multiples (Negativo/Positivo)

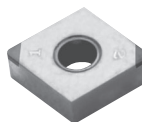
**2NU-CNGA**

120404	120408	120408WT	120412WF
120404F	120408F	120412	120412WT
120404T	120408T	120412F	
120404W	120408W	120412T	
120404WF	120408WF	120412W	



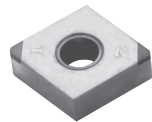
**2NU-CNMA**

120404  
120408



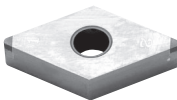
**2NS-CNGA**

120408



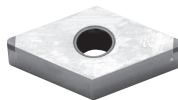
**2NU-DNGA**

150404  
150404F  
150404T  
150408  
150408F  
150408T  
150412  
150412F  
150412T  
150608



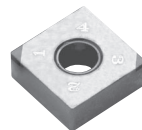
**2NS-DNGA**

150408



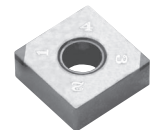
**4NU-SNGA**

120404  
120404F  
120404T  
120408  
120408F  
120408T  
120412



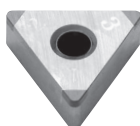
**2NS-SNGA**

120408



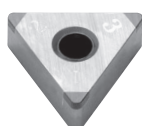
**3NU-TNGA**

160404  
160404F  
160404T  
160408  
160408F  
160408T  
160412



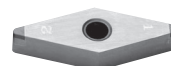
**2NS-TNGA**

160408



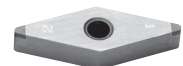
**2NU-VNGA**

160404  
160404F  
160404T  
160408  
160408F  
160408T



**2NS-VNGA**

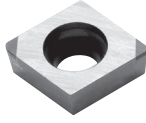
160408



» Tipo de bordes-multiples (Negativo/Positivo)

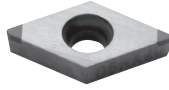
**2NU-CCGW**

060202 09T304  
060202F 09T304F  
060202T 09T304T  
060204 09T308  
060204F 09T308F  
060204T 09T308T  
060208 09T308W  
060208F 09T308WF  
060208T



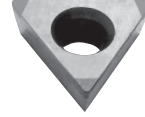
**2NU-DCGW**

070204 11T304F  
070204F 11T304T  
070204T 11T308  
070208 11T308F  
070208F 11T308T  
070208T  
11T304



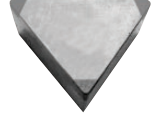
**3NU-TCGW**

090204  
090204F  
090204T



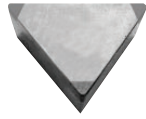
**3NU-TPGB**

110304  
110304F  
110304T  
110308  
110308F  
110308T



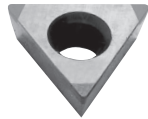
**3NU-TPGN**

110304 160304  
110304F 160308  
110304T  
110308  
110308F  
110308T



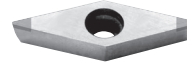
**3NU-TPGW**

110304  
110304F  
110304T  
110308  
110308F  
110308T



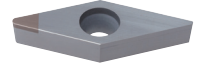
**2NU-VBGW**

160404  
160404F  
160404T  
160408  
160408F  
160408T



**2NU-VCGW**

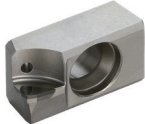
160404  
160404F  
160404T  
160408  
160408F  
160408T



» Insertos PCD (Negativo/Positivo)

**BAMPR-XAF**

BAMPR



**BAMPR-XAW**

BAMPR



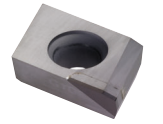
**BAMPR-XAWR**

BAMPR



**CDEW-NAF**

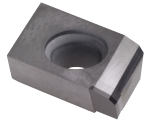
1204R  
1204L



(Filo fortalecido)

**CDEW-NAW**

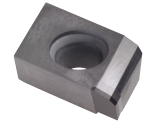
1204R  
1204L



(Filo fortalecido de inserto Wiper)

**CDEW-XAW**

1204R  
1204L



(Filo agudo de inserto Wiper)

**CDEW-XAF**

1204R  
1204L



(Filo agudo)

**CDEW-XCF**

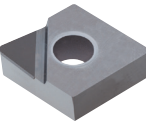
1204R  
1204L



(Filo agudo)

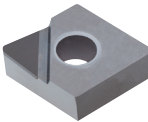
**CNMM**

120404  
120408  
120412



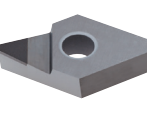
**CNMX**

120404  
120408  
120412



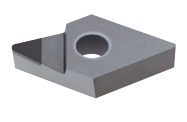
**DNMM**

150404  
150408  
150412



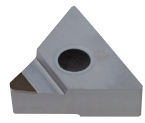
**DNMX**

150404  
150408  
150412



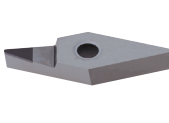
**TNMX**

160404  
160408  
160412



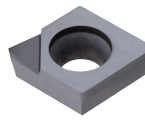
**VNMX**

160404  
160408  
160412



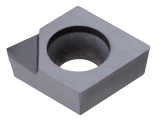
**CCMT**

060202  
060204  
060208  
09T304  
09T308  
09T312



**CPMT**

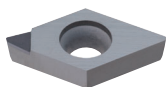
080204  
080208  
080212  
090304  
090308  
090312



» Insertos PCD (Negativo/Positivo)

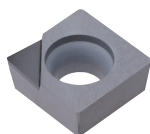
**DCMT**

070202  
070204  
070208  
11T302  
11T304  
11T308



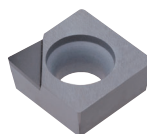
**SCMT**

09T304  
09T308  
09T312



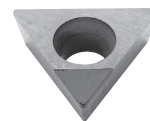
**SPGW**

090302  
090304  
090308



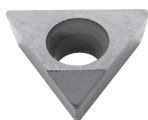
**TBGW**

080204  
080208  
080212  
090304  
090308  
090312



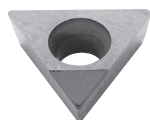
**TCMT**

090201  
090202  
090204  
110201  
110202  
110204



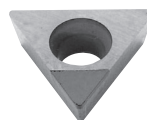
**TPGB**

080204  
080208  
090204  
090208  
110304  
110308



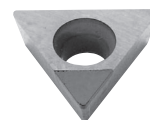
**TPGW**

080202  
080204  
090204  
090208  
110302  
110304  
110308  
160404  
160408



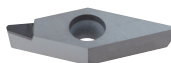
**TPGT**

110302  
110304



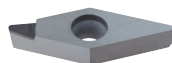
**VBMT**

110302  
110304  
110308  
160402  
160404  
160408  
160412



**VCMT**

110302  
110304  
110308  
160404  
160408  
160412



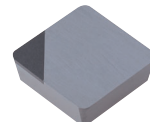
**TPGN**

090204  
090208  
110302  
110304  
110308  
160302  
160304  
160308



**SPGN**

090304  
090308  
120304  
120308



# Herramientas para torneado

Los portaherramientas para torneado de KORLOY garantizan una mayor rigidez gracias a una sujeción sólida y potente, garantizando un mecanizado estable y una larga vida útil de las herramientas. También ofrecemos la posibilidad de producir portaherramientas hechos a medida para cada situación particular.

- Portaherramienta (ISO)
- Barras de torneado interior (Tipo de ISO)
- Save Turn
- Auto Tools
- Herramientas multifuncionales (Portas)





## » Sistema de brida doble

### DCBNR/L

2020-K12  
2525-M12  
3225-P12  
2525-M16  
3232-P16  
3232-P19  
4040-S19



### DCKNR/L

2020-K12  
2525-M12  
3225-P12  
3232-P16  
4040-S16



### DCLNR/L

2020-K09 3225-P16  
2525-M09 3232-P16  
2020-K12 2525-M19  
2525-M12 3225-P19  
3225-P12 3232-P19  
3232-P12 4040-S19  
2525-M16



### DDJNR/L

2020-K11  
2525-M11  
3225-P11  
3232-P11  
2020-K15  
2525-M15  
3225-P15  
3232-P15  
2020-K15-3  
2525-M15-3  
3232-P15-3



### DSBNR/L

2020-K09  
2525-M09  
2020-K12  
2525-M12  
3225-P12  
3232-P12  
2525-M15  
3225-P15  
3232-P15  
3232-P19  
4040-S19



### DSDNN

2020-K09  
2020-K12  
2525-M12  
3225-P12  
3232-P12  
2525-M15  
3232-P15  
3232-P19  
4040-S19



### DSKNR/L

2020-K09  
2020-K12  
2525-M12  
3232-P12  
3232-P15  
3232-P19  
4040-S19



### DSSNR/L

2020-K09  
2020-K12  
2525-M12  
3225-P12  
3232-P12  
2525-M15  
3232-P15  
3232-P19  
4040-S19



### DTFNR/L

2020-K16  
2525-M16  
3232-P16  
2525-M22  
3225-P22  
3232-P22



### DTGNR/L

2020-K16  
2525-M16  
3232-P16  
2525-M22  
3225-P22  
3232-P22



### DVJNR/L

2020-K16  
2525-M16  
3232-P16



### DVVNN

2020-K16  
2525-M16  
3232-P16



### DWLNRL/L

2020-K06  
2525-M06  
2020-K08  
2525-M08



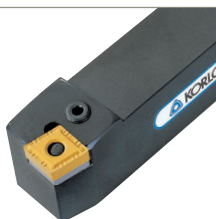
## » Sistema de palanca

### PCBNR/L

2020-K12	3232-P16	4040-S25-5
2525-M12	3232-P19	5050-T25
3225-P12	4040-S19	
2525-M16	4040-S25	

#### Tipo nuevo

2020-K12N	2525-M16N	4040-S19N
2525-M12N	3232-P16N	
3225-P12N	3232-P19N	



### PCKNR/L

2020-K12	3225-P12	4040-S16
2525-M12	3232-P16	

#### Tipo nuevo

2020-K12N	3225-P12N	
2525-M12N	3232-P16N	



### PCLNR/L

1616-H09	3232-P12	4040-S19
2020-K09	2525-M16	4040-S25
2525-M09	3232-P16	5050-T25
1616-H12	2525-M19	4040-S25-5
2020-K12	3225-P19	5050-S25-5
2525-M12	3232-P19	
3225-P12	4040-P19	

#### Tipo nuevo

1616-H09N	2020-K12N	2525-M16N
2020-K09N	2525-M12N	3232-P16N
2525-M09N	3225-P12N	2525-M19N
1616-H12N	3232-P12N	4040-S19N

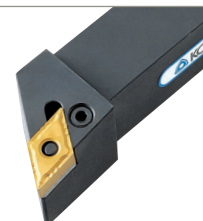


### PDJNR/L

1616-H11	2525-M15	2525-M15-3
2020-K11	3225-P15	3232-P15-3
2525-M11	3232-P15	
2020-K15	2020-K15-3	

#### Tipo nuevo

1616-H11N	2525-M15N	2525-M15-3N
2020-K11N	3225-P15N	3232-P15-3N
2525-M11N	3232-P15N	
2020-K15N	2020-K15-3N	



### PDNNR/L

2020-K15	3232-P15	2525-M15-3
2525-M15	4025-M15	4025-M15-3

#### Tipo nuevo

2020-K15N	3232-P15N	3232-P15-3N
2525-M15N	2525-M15-3N	



### PRDCN

2020-M10	3225-Q12	3232-Q20
2525-M10	2525-Q16	4040-S25
2525-M12	3225-Q16	4040-T25
2020-K12	3232-Q16	5050-U32



### PRGCR/L

2020-K10	2525-M12	3225-P16
2525-M10	3225-P12	3232-P20
2020-K12	2525-M16	4040-S25



### PSBNR/L

1616-H09	3232-P12	4040-S25
2020-K09	2525-M15	4040-S25-6
2020-K12	3232-P15	5050-T25
2525-M12	3232-P19	5050-T25-6
3225-P12	4040-S19	

#### Tipo nuevo

1616-H09N	2525-M12N	2525-M15N
2020-K09N	3225-P12N	
2020-K12N	3232-P12N	



### PSDNN

1616-H09	2525-M15	4040-S25
2020-K12	3232-P15	5050-T25
2525-M12	3225-P19	4040-S25-6
3225-P12	3232-P19	5050-T25-6
3232-P12	4040-S19	

#### Tipo nuevo

1616-H09N	3225-P12N	3232-P15N
2020-K12N	3232-P12N	
2525-M12N	2525-M15N	



### PSKNR/L

1616-H09	3232-P12	4040-S19
2020-K09	2525-M15	4040-S25
2020-K12	3232-P15	4040-S25-6
2525-M12	3232-P19	5050-T25-6

#### Tipo nuevo

1616-H09N	2525-M12N	3232-P15N
2020-K09N	3232-P12N	
2020-K12N	2525-M15N	



## » Sistema de palanca

### PSSNR/L

1616-H09	3232-P12	4040-R19
2020-K12	2525-M15	4040-S19
2525-M12	3232-P15	4040-S25
3225-P12	3232-P19	4040-S25-6

#### Tipo nuevo

1616-H09N	3225-P12N	3232-P15N
2020-K12N	3232-P12N	
2525-M12N	2525-M15N	



### PTFNR/L

1616-H16	2525-M22	4040-S27
2020-K16	3232-P22	
2525-M16	3232-P27	

#### Tipo nuevo

2525-M22N	3232-P27N	
3232-P22N	4040-S27N	



### PTGNR/L

1212-F11	1616-H16	2525-M22
1616-H11	2020-K16	3232-P22
2020-K11	2525-M16	3232-P27
2525-M11	3232-P16	4040-S27

#### Tipo nuevo

2525-M22N	3232-P27N	
3232-P22N	4040-S27N	



### PTTNR/L

1616-H16	2525-M16
2020-K16	2525-M22

#### Tipo nuevo

2525-M22N
-----------



### PWLNLR/L

1616-H06	2525-M06	2525-M08
2020-K06	2020-K08	

#### Tipo nuevo

1616-H06N	2525-M06N	2525-M08N
2020-K06N	2020-K08N	



## » Sistema brida amplia

### WTENN

2020-K16
2525-M16
2525-M22
3232-P22



### WTJNR/L

2020-K16
2525-M16
3232-P16
2525-M22
3232-P22



### WTXNR/L

2020-K16
2525-M16
3232-P16



### WWLNR/L

2020-K08
2525-M08
3232-P08



## » Sistema de brida

### CKJNR/L

#### CKJNR

2020-K16 3225-P16  
2525-M16 3232-P16  
3225-M16 4040-R16

#### CKJNL

2020-K16 3232-P16  
2525-M16 4040-R16



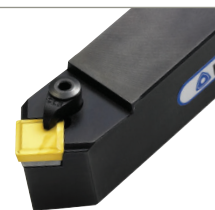
### CKNNR/L

2525-M16  
3232-P16



### CSDPN

1616-H09  
2525-M12



### CSKPR/L

2525-M12



### CTFPR/L

2020-K16  
2525-M16



### CTGPR/L

1212-F11  
1616-H11  
2020-K11  
2020-K16  
2525-M16  
2525-M22  
3232-P22



## » Sistema de multi-sujección

### MCKNR/L

2020-K12  
2525-M12  
3232-P12



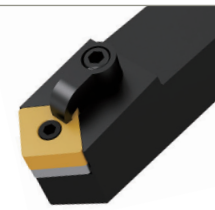
### MCLNR/L

1616-H09 2525-M16  
2020-K09 3232-P16  
2525-M09 4040-S16  
2020-K12 2525-M19  
2525-M12 3232-P19  
3225-P12 4040-S19  
3232-P12 4040-S25



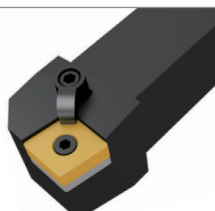
### MCMNN

2020-K12  
2525-M12  
3232-P12  
2525-M16  
3232-P16  
3232-P19  
4040-S19



### MCRNR/L

2020-K12  
2525-M12  
2525-M16  
3232-P16  
3232-P19  
4040-S19



### MDJNR/L

2020-K11  
2525-M11  
2020-K15-3  
2525-M15-3  
3232-P15-3  
2020-K15  
2525-M15  
3232-P15



### MDNNN

2525-M15-3  
2525-M15



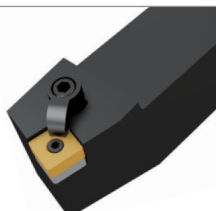
### MDQNR/L

2525-M15-3  
3232-P15-3  
2525-M15  
3232-M15



### MSBNR/L

2020-K12  
2525-M12  
2525-M15  
3232-P15  
3232-P19  
4040-S19



### MSDNN

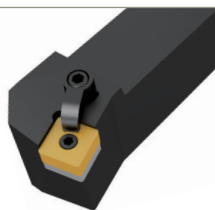
1616-H09  
2020-K09  
2020-K12  
2525-M12  
3225-P12  
2525-M15  
3225-P15  
3232-P15  
4040-S15  
3232-P19  
4040-S19



## » Sistema de multi-sujección

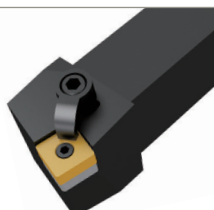
### MSKNR/L

1616-H09  
2020-K09  
2020-K12  
2525-M12  
3225-P12  
2525-M15  
3232-P15  
3232-P19  
4040-S19  
4040-S25



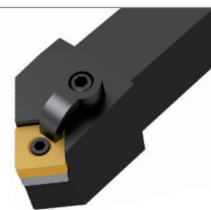
### MSRNR/L

1616-H09  
2020-K09  
2020-K12  
2525-M12  
2525-M15  
3232-P15  
3225-P19  
3232-P19  
4040-S19  
4040-S25



### MSSNR/L

1616-H09  
2020-K09  
2020-K12  
2525-M12  
2525-M15  
3232-P15  
3232-P19  
4040-S19



### MTENN

2020-K16  
2525-M16  
2525-M22  
3232-P27  
4040-S33



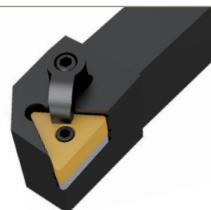
### MTFNR/L

1616-H16  
2020-K16  
2525-M16  
2525-M22  
3232-P22  
4040-S22  
3232-P27  
4040-S27  
4040-S33



### MTGNR/L

1616-H16  
2020-K16  
2525-M16  
2525-M22  
3232-P22  
3232-P27  
4040-S27  
4040-S33



### MTJNR/L

2020-K16  
2525-M16  
2525-M22  
3232-P22  
3232-P27  
4040-S27  
4040-S33



### MVJNR/L

2020-K16  
2525-M16  
3232-P16  
2525-M22  
3232-P22  
4040-S22



### MVQNR/L

2020-K16  
2525-M16  
3232-P16



### MVNN

2020-K16  
2525-M16



### MWLN/L

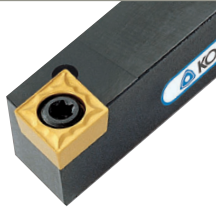
2020-K06  
2525-M06  
3232-P06  
2020-K08  
2525-M08  
3232-P08



» Sistema con tornillo

**SCACR/L**

1010-E06  
1212-F09



**SCLCR/L**

0808-D06  
1010-E06  
1212-F09  
1616-H09  
2020-K09  
2020-K12  
2525-M09  
2525-M12



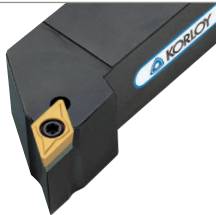
**SDACR/L**

1010-E07  
1212-F11  
1616-H11



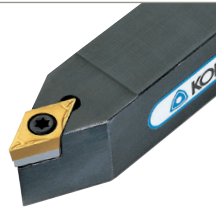
**SDJCR/L**

1010-E07  
1212-F07  
1616-H07  
2020-K07  
1212-F11  
1616-H11  
2020-K11  
2525-M11



**SDNCN**

1010-E07  
1212-F07  
1212-H11  
1616-H11  
2020-K11  
2020-M11



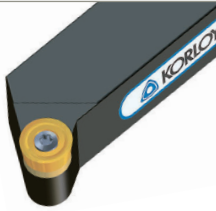
**SRDCN**

1010-E06  
1212-F06  
1616-H06  
2525-M06  
1616-H08  
2020-K08  
2525-M08  
1616-H10  
2020-K10  
2525-M10  
2020-K12  
2525-M12



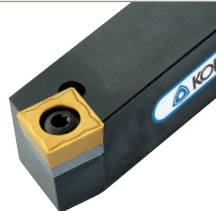
**SRGCR/L**

1010-E06  
1212-F06  
1616-H06  
1616-H08  
2020-K08  
2525-M08  
1616-H10  
2020-K10  
2525-M10  
2020-K12  
2525-M12



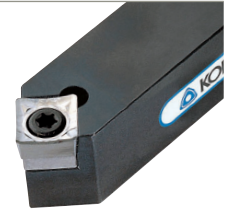
**SSBCR/L**

1212-F09  
1616-H09  
2020-K12



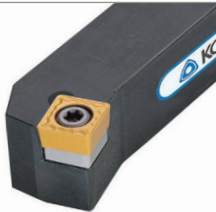
**SSDCN**

1212-F09  
1616-H09



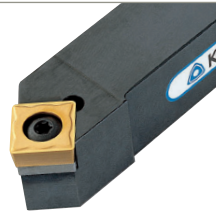
**SSKCR/L**

1616-H09



**SSSCR/L**

1616-H09  
2020-K12  
2525-M12



**STACR/L**

1010-E09  
1212-F11



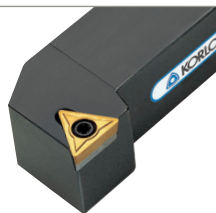
**STFCR/L**

1010-E09  
1212-F11  
1616-H11  
1616-H16  
2020-K16  
2525-M16



**STGCR/L**

0808-D09  
1010-E09  
1212-F11  
1616-H11  
1616-H16  
2020-K16  
2525-M16



**STTCR/L**

1616-H11  
1616-H16  
2020-K16



## » Sistema con tornillo

### SVABR/L

1616-H16  
2020-K16



### SVHBR/L

2525-M16  
3225-P16



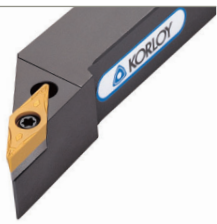
### SVJBR/L

1212-F11  
1616-H11  
2020-K11  
1616-H16  
2020-K16  
2525-M16  
3225-P16  
3232-P16



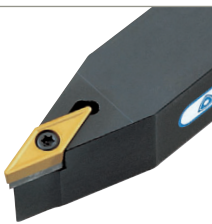
### SVJCR/L

1212-F11  
1616-H11  
2020-K11  
1212-F13  
1616-H13  
2020-K13  
1616-H16  
2020-K16  
2525-M16



### SVVBN

1212-F11  
1616-H11  
2020-K11  
1616-H16  
2020-K16  
2525-M16  
3225-P16



### SVVCN

1212-F11  
1616-H11  
2020-K11  
1212-F13  
1616-H13  
2020-K13  
1616-H16  
2020-K16  
2525-M16



# Barras de torneado interior (Tipo de ISO)

## » Sistema de brida doble

### DCLNR/L

A25R-DCLNR/L-09  
A25R-DCLNR/L-12  
A32S-DCLNR/L-12  
A40T-DCLNR/L-12  
A50U-DCLNR/L-16



### DDUNR/L

A40T-DDUNR/L-15  
A50U-DDUNR/L-15  
A40T-DDUNR/L-15-3  
A50U-DDUNR/L-15-3



### DSKNR/L

A25R-DSKNR/L-09  
A25R-DSKNR/L-12  
A32S-DSKNR/L-12  
A40T-DSKNR/L-12



### DTFNR/L

A25R-DTFNR/L-16  
A32S-DTFNR/L-16  
A40T-DTFNR/L-22  
A50U-DTFNR/L-22



### DWLNRL

A25R-DWLNRL-06  
A32S-DWLNRL-06  
A40T-DWLNRL-06  
A25R-DWLNRL-08  
A32S-DWLNRL-08  
A40T-DWLNRL-08  
A50U-DWLNRL-08



## » Sistema de palanca

### PCLNR/L

S16R-PCLNR/L-09	S32S-PCLNR/L-12	A25R-PCLNR/L-12
S20S-PCLNR/L-09	S32U-PCLNR/L-12	A32S-PCLNR/L-12
S25R-PCLNR/L-09	S40T-PCLNR/L-12	A40T-PCLNR/L-12
S25R-PCLNR/L-12	S50U-PCLNR/L-12	
S25T-PCLNR/L-12	S50U-PCLNR/L-19	

#### Tipo nuevo

S16R-PCLNR/L-09N	S32U-PCLNR/L-12N	A25R-PCLNR/L-09N
S20S-PCLNR/L-09N	S40T-PCLNR/L-12N	A25R-PCLNR/L-12N
S25R-PCLNR/L-09N	S50U-PCLNR/L-12N	A32R-PCLNR/L-12N
S25R-PCLNR/L-12N	S50U-PCLNR/L-19N	A40T-PCLNR/L-12N
S25T-PCLNR/L-12N	A16R-PCLNR/L-09N	A50U-PCLNR/L-12N
S32S-PCLNR/L-12N	A20S-PCLNR/L-09N	A50U-PCLNR/L-19N



### PDSNR/L

S32S-PDSNR/L-15	S40T-PDSNR/L-15-3
S40T-PDSNR/L-15	A32S-PDSNR/L-15
S32S-PDSNR/L-15-3	A32S-PDSNR/L-15-3

#### Tipo nuevo

S32S-PDSNR/L-15N	A32S-PDSNR/L-15N
S40T-PDSNR/L-15N	A40T-PDSNR/L-15N
S32S-PDSNR/L-15-3N	A32S-PDSNR/L-15-3N
S40T-PDSNR/L-15-3N	A40T-PDSNR/L-15-3N



### PDUNR/L

S32S-PDUNR/L-11	S50U-PDUNR/L-15	A32S-PDUNR/L-15
S32S-PDUNR/L-15	S32S-PDUNR/L-15-3	A32S-PDUNR/L-15-3
S40T-PDUNR/L-15	S40T-PDUNR/L-15-3	

#### Tipo nuevo

S20S-PDUNR/L-11N	S50U-PDUNR/L-15N	A32S-PDUNR/L-15N
S25R-PDUNR/L-11N	S32S-PDUNR/L-15-3N	A40T-PDUNR/L-15N
S32S-PDUNR/L-11N	S40T-PDUNR/L-15-3N	A50U-PDUNR/L-15N
S32S-PDUNR/L-15N	A20S-PDUNR/L-11N	A32S-PDUNR/L-15-3N
S32U-PDUNR/L-15N	A25R-PDUNR/L-11N	A40T-PDUNR/L-15-3N
S40T-PDUNR/L-15N	A32S-PDUNR/L-11N	



### PSKNR/L

S25R-PSKNR/L-12	A25R-PSKNR/L-12
S32S-PSKNR/L-12	A32S-PSKNR/L-12
S40T-PSKNR/L-12	

#### Tipo nuevo

S25R-PSKNR/L-12N	A25R-PSKNR/L-12N
S32S-PSKNR/L-12N	A32S-PSKNR/L-12N
S40T-PSKNR/L-12N	A40T-PSKNR/L-12N



### PTFNR/L

S16R-PTFNR/L-11	S32S-PTFNR/L-16
S20S-PTFNR/L-11	S40T-PTFNR/L-16
S25R-PTFNR/L-11	A25R-PTFNR/L-16
S25R-PTFNR/L-16	A32S-PTFNR/L-16



### PWLNRL

S16R-PWLNRL-06	S32S-PWLNRL-06
S20S-PWLNRL-06	S25R-PWLNRL-08
S25R-PWLNRL-06	S32S-PWLNRL-08

#### Tipo nuevo

S32S-PWLNRL-06N	S32S-PWLNRL-08N
S25R-PWLNRL-08N	





## » Sistema de brida

### CKUNR/L

S32S-CKUNR/L-16  
S40T-CKUNR/L-16  
S50U-CKUNR/L-16



### CSKPR/L

S16R-CSKPR/L-09  
S20S-CSKPR/L-09  
S20S-CSKPR/L-12  
S25R-CSKPR/L-12



### CTFPR/L

S12M-CTFPR/L-11  
S16R-CTFPR/L-11  
S20S-CTFPR/L-11  
S16R-CTFPR/L-16  
S20S-CTFPR/L-16  
S25R-CTFPR/L-16  
S32S-CTFPR/L-16  
S40T-CTFPR/L-16  
S40T-CTFPR/L-22



## » Sistema de multi-sujección

### MCLNR/L

S20S-MCLNR/L-09  
S25R-MCLNR/L-09  
S25R-MCLNR/L-12  
S32S-MCLNR/L-12  
S40T-MCLNR/L-12  
A25R-MCLNR/L-12  
A32S-MCLNR/L-12



### MDUNR/L

S32S-MDUNR/L-15-3  
S40T-MDUNR/L-15-3  
A32S-MDUNR/L-15-3



### MSKNR/L

S25R-MSKNR/L-12  
S32S-MSKNR/L-12  
S40T-MSKNR/L-12  
A25R-MSKNR/L-12  
A32S-MSKNR/L-12  
A40T-MSKNR/L-12



### MTFNR/L

S25R-MTFNR/L-16  
S32S-MTFNR/L-16  
S40T-MTFNR/L-16  
A25R-MTFNR/L-16  
A32S-MTFNR/L-16



### MVUNR/L

S32S-MVUNR/L-16  
S40T-MVUNR/L-16  
A32S-MVUNR/L-16  
A40T-MVUNR/L-16



### MWLNRL/L

S25R-MWLNRL/L-06  
S32S-MWLNRL/L-06  
S40T-MWLNRL/L-06  
S25R-MWLNRL/L-08  
S32S-MWLNRL/L-08  
S40T-MWLNRL/L-08  
A25R-MWLNRL/L-06  
A32S-MWLNRL/L-06  
A25R-MWLNRL/L-08  
A32S-MWLNRL/L-08



## » Sistema con tornillo

### SCLCR/L

S08K-SCLCR/L-06  
S10K-SCLCR/L-06  
S10M-SCLCR/L-06  
S12M-SCLCR/L-06  
S16R-SCLCR/L-06  
S12M-SCLCR/L-09  
S16R-SCLCR/L-09  
S20S-SCLCR/L-09  
S25R-SCLCR/L-09  
S25R-SCLCR/L-12  
S32S-SCLCR/L-12

S40T-SCLCR/L-12  
A08F-SCLCR/L-06  
A10H-SCLCR/L-06  
A12K-SCLCR/L-06  
A12K-SCLCR/L-09  
A16M-SCLCR/L-09  
A20Q-SCLCR/L-09  
A25R-SCLCR/L-09  
A25R-SCLCR/L-12  
A32S-SCLCR/L-12



### SCLPR/L

S10M-SCLPR/L-08  
S12M-SCLPR/L-08  
S16N-SCLPR/L-09  
S16R-SCLPR/L-09  
S20N-SCLPR/L-09  
S20S-SCLPR/L-09

A10H-SCLPR/L-08  
A12K-SCLPR/L-08  
A16M-SCLPR/L-09  
A20Q-SCLPR/L-09



### SDQCR/L

S10M-SDQCR/L-07  
S12M-SDQCR/L-07  
S16R-SDQCR/L-07  
S16R-SDQCR/L-11  
S20S-SDQCR/L-11  
S25R-SDQCR/L-11

A10H-SDQCR/L-07  
A12K-SDQCR/L-07  
A16M-SDQCR/L-11  
A20Q-SDQCR/L-11  
A25R-SDQCR/L-11



### SDUCR/L

S10M-SDUCR/L-07  
S12M-SDUCR/L-07  
S16R-SDUCR/L-07  
S16R-SDUCR/L-11  
S20S-SDUCR/L-11  
S25R-SDUCR/L-11

S32S-SDUCR/L-11  
A10H-SDUCR/L-07  
A12K-SDUCR/L-07  
A16M-SDUCR/L-07  
A20Q-SDUCR/L-11  
A25R-SDUCR/L-11



# Barras de torneado interior (Tipo de ISO)

## ⊕ Sistema con tornillo

### SDZCR/L

S16R-SDZCR/L-07  
S20S-SDZCR/L-07  
S25R-SDZCR/L-11  
S32S-SDZCR/L-11  
S40T-SDZCR/L-11  
A25R-SDZCR/L-11  
A32S-SDZCR/L-11



### SSKCR/L

S12M-SSKCR/L-09  
S16R-SSKCR/L-09  
S20S-SSKCR/L-09  
S25R-SSKCR/L-12  
S32S-SSKCR/L-12  
A12K-SSKCR/L-09  
A16M-SSKCR/L-09  
A20Q-SSKCR/L-09  
A25R-SSKCR/L-12  
A32S-SSKCR/L-12



### SSKPR/L

S12M-SSKPR/L-09  
S16N-SSKPR/L-09  
S16R-SSKPR/L-09  
S20N-SSKPR/L-09  
S20S-SSKPR/L-09  
A12K-SSKPR/L-09  
A16M-SSKPR/L-09  
A20Q-SSKPR/L-09



### STFCR/L

S10M-STFCR/L-09	S25R-STFCR/L-16	A16M-STFCR/L-11
S12M-STFCR/L-09	S32S-STFCR/L-16	A20Q-STFCR/L-11
S12M-STFCR/L-11	S40T-STFCR/L-16	A25R-STFCR/L-16
S16R-STFCR/L-11	A10H-STFCR/L-09	A32S-STFCR/L-16
S20S-STFCR/L-11	A12K-STFCR/L-09	
S20S-STFCR/L-16	A12K-STFCR/L-11	



### STFPR/L

S10M-STFPR/L-11  
S12M-STFPR/L-11  
S16N-STFPR/L-11  
S16R-STFPR/L-11  
S20N-STFPR/L-16  
S20S-STFPR/L-16  
A10H-STFPR/L-11  
A12H-STFPR/L-11  
A16M-STFPR/L-11  
A20Q-STFPR/L-16



### STWPR/L

S10M-STWPR/L-11  
S12M-STWPR/L-11  
S16Q-STWPR/L-11  
S20R-STWPR/L-11



### SVJCR/L

S12M-SVJCR/L-08  
S16Q-SVJCR/L-08



### SVQBR/L

S32S-SVQBR/L-16  
S40T-SVQBR/L-16  
A32S-SVQBR/L-16



### SVQCR/L

S16R-SVQCR/L-11  
S20S-SVQCR/L-11  
S25R-SVQCR/L-11  
S20S-SVQCR/L-13  
S25R-SVQCR/L-13  
S25R-SVQCR/L-16  
S32S-SVQCR/L-16  
S40T-SVQCR/L-16



### SVUBR/L

S32S-SVUBR/L-16  
S40T-SVUBR/L-16  
A32S-SVUBR/L-16



### SVUCR/L

S16R-SVUCR/L-11  
S20S-SVUCR/L-11  
S25T-SVUCR/L-11  
S20S-SVUCR/L-13  
S25R-SVUCR/L-13  
S25R-SVUCR/L-16  
S32S-SVUCR/L-16  
S40T-SVUCR/L-16



### SWLCR/L

S25R-SWLCR/L-08  
S32S-SWLCR/L-08  
A25R-SWLCR/L-08  
A32S-SWLCR/L-08



## » Barra interior con mango de carburo

### SCLCR/L

C04G-SCLCR/L-03	C12Q-SCLCR/L-09	E10M-SCLCR/L-06
C05H-SCLCR/L-03	C16R-SCLCR/L-09	E12M-SCLCR/L-06
C06H-SCLCR/L-04	C16S-SCLCR/L-09	E12Q-SCLCR/L-06
C07K-SCLCR/L-04	C20R-SCLCR/L-09	E12M-SCLCR/L-09
C08K-SCLCR/L-06	C20S-SCLCR/L-09	E12Q-SCLCR/L-09
C10K-SCLCR/L-06	C25T-SCLCR/L-12	E16R-SCLCR/L-09
C10M-SCLCR/L-06	E06H-SCLCR/L-04	E16S-SCLCR/L-09
C12M-SCLCR/L-06	E07K-SCLCR/L-04	E20R-SCLCR/L-09
C12Q-SCLCR/L-06	E08K-SCLCR/L-06	E20S-SCLCR/L-09
C12M-SCLCR/L-09	E10K-SCLCR/L-06	E25T-SCLCR/L-12



### SCLPR/L

C10K-SCLPR/L-08	E10K-SCLPR/L-08
C10M-SCLPR/L-08	E10M-SCLPR/L-08
C12M-SCLPR/L-08	E12M-SCLPR/L-08
C12Q-SCLPR/L-08	E12Q-SCLPR/L-08
C12M-SCLPR/L-09	E12M-SCLPR/L-09
C12Q-SCLPR/L-09	E12Q-SCLPR/L-09
C16R-SCLPR/L-09	E16R-SCLPR/L-09
C16S-SCLPR/L-09	E16S-SCLPR/L-09
C20R-SCLPR/L-09	E20R-SCLPR/L-09
C20S-SCLPR/L-09	E20S-SCLPR/L-09



### SDQCR/L

C08K-SDQCR/L-07	E08K-SDQCR/L-07
C10K-SDQCR/L-07	E10K-SDQCR/L-07
C12M-SDQCR/L-07	E12M-SDQCR/L-07
C16R-SDQCR/L-07	E16R-SDQCR/L-07
C16R-SDQCR/L-11	E16R-SDQCR/L-11
C20R-SDQCR/L-11	E20R-SDQCR/L-11
C20S-SDQCR/L-11	E20S-SDQCR/L-11



### SDUCR/L

C10K-SDUCR/L-07	E10K-SDUCR/L-07
C10M-SDUCR/L-07	E10M-SDUCR/L-07
C12M-SDUCR/L-07	E12M-SDUCR/L-07
C12Q-SDUCR/L-07	E12Q-SDUCR/L-07
C16R-SDUCR/L-07	E16R-SDUCR/L-07
C16S-SDUCR/L-07	E16S-SDUCR/L-07
C16R-SDUCR/L-11	E16R-SDUCR/L-11
C16S-SDUCR/L-11	E16S-SDUCR/L-11
C20R-SDUCR/L-11	E20R-SDUCR/L-11
C20S-SDUCR/L-11	E20S-SDUCR/L-11
C25T-SDUCR/L-11	E25T-SDUCR/L-11



### STFCR/L

C08K-STFCR/L-09	E08K-STFCR/L-09
C10K-STFCR/L-09	E10K-STFCR/L-09
C10K-STFCR/L-11	E10K-STFCR/L-11
C12M-STFCR/L-11	E12M-STFCR/L-11
C16R-STFCR/L-11	E16R-STFCR/L-11
C20R-STFCR/L-11	E20R-STFCR/L-11
C20S-STFCR/L-11	E20S-STFCR/L-11
C20R-STFCR/L-16	E20R-STFCR/L-16
C20S-STFCR/L-16	E20S-STFCR/L-16



### STFPR/L

C08K-STFPR/L-08	E08K-STFPR/L-08
C10K-STFPR/L-11	E10K-STFPR/L-11
C10M-STFPR/L-11	E10M-STFPR/L-11
C12M-STFPR/L-11	E12M-STFPR/L-11
C12Q-STFPR/L-11	E12Q-STFPR/L-11
C16R-STFPR/L-11	E16R-STFPR/L-11
C16S-STFPR/L-11	E16S-STFPR/L-11
C20R-STFPR/L-11	E20R-STFPR/L-11
C20S-STFPR/L-11	E20S-STFPR/L-11
C20R-STFPR/L-16	E20R-STFPR/L-16
C20S-STFPR/L-16	E20S-STFPR/L-16
C25T-STFPR/L-16	E25T-STFPR/L-16



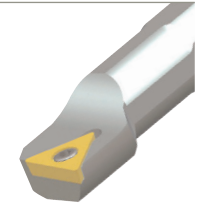
### STUBR/L

C08K-STUBR/L-06	E08K-STUBR/L-06
C10K-STUBR/L-06	E10K-STUBR/L-06



### STUPR/L

C08K-STUPR/L-08	E08K-STUPR/L-08
C10K-STUPR/L-11	E10K-STUPR/L-11
C10M-STUPR/L-11	E10M-STUPR/L-11
C12M-STUPR/L-11	E12M-STUPR/L-11
C12Q-STUPR/L-11	E12Q-STUPR/L-11
C16R-STUPR/L-11	E16R-STUPR/L-11
C16S-STUPR/L-11	E16S-STUPR/L-11
C20R-STUPR/L-11	E20R-STUPR/L-11
C20S-STUPR/L-11	E20S-STUPR/L-11
C20R-STUPR/L-16	E20R-STUPR/L-16
C20S-STUPR/L-16	E20S-STUPR/L-16
C25T-STUPR/L-16	E25T-STUPR/L-16



### SWUBR/L

C05H-SWUBR/L-02	E06H-SWUBR/L-02
C06H-SWUBR/L-02	E08K-SWUBR/L-02
C08K-SWUBR/L-02	E08K-SWUBR/L-S3
C08K-SWUBR/L-S3	



### » Torneado exterior

#### PCLNR/L

1616-H09-4N  
2020-K09-4N  
2525-M09-4N



#### PCBNR/L

2020-K09-4N  
2525-M09-4N



#### PDJNR/L

2020-K11-5N  
2525-M11-5N



#### PDNNR/L

2020-K11-5N  
2525-M11-5N



#### PDQNR/L

2020-K11-5N  
2525-M11-5N



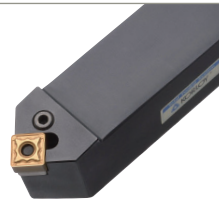
#### PSBNR/L

2020-K09-4N  
2525-M09-4N



#### PSDNN

2020-K09-4N  
2525-M09-4N



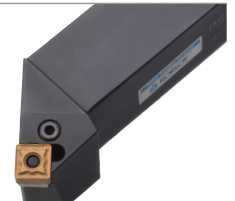
#### PSKNR/L

2020-K09-4N  
2525-M09-4N



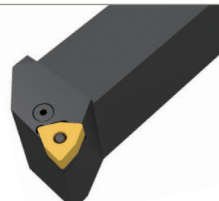
#### PSSNR/L

2020-K09-4N  
2525-M09-4N



#### PWLNR/L

1616-H06  
2020-K06  
2525-M06



## » Torneado interior

### PCLNR/L

S20Q-PCLNR/L-09-4N  
S25R-PCLNR/L-09-4N  
S32S-PCLNR/L-09-4N



### PDUNR/L

S32S-PDUNR/L-11-5N  
S40T-PDUNR/L-11-5N



### PDZNR/L

S32S-PDZNR/L-11-5N  
S40T-PDZNR/L-11-5N



### PSKNR/L

S25R-PSKNR/L-09-4N  
S32S-PSKNR/L-09-4N



### PWLNRL/L

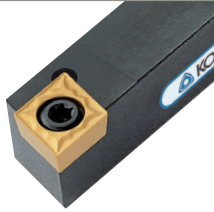
S20S-PWLNRL/L-06  
S25S-PWLNRL/L-06  
S32S-PWLNRL/L-06



» Tipo de ISO

**SCACR/L**

0808-X06A  
1010-X06A  
1010-X09A  
1212-X09A  
1616-X09A



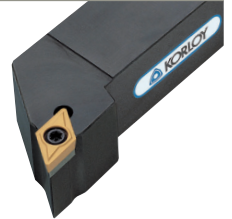
**SCLCR/L**

0808-X06A  
1010-X06A  
1010-X09A  
1212-X09A  
1616-X09A



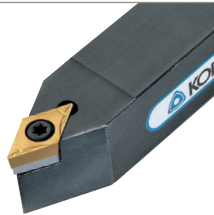
**SDJCR/L**

0808-X07A  
1010-X07A  
1010-X11A  
1212-X11A  
1616-X11A



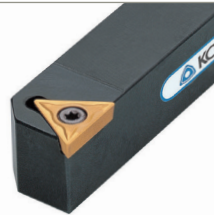
**SDNCN**

0808-X07A  
1010-X07A  
1010-X11A  
1212-X11A  
1616-X11A



**STACR/L**

0808-X08A  
1010-X08A



**SVACR/L**

0810-X12A  
1010-X12A  
1212-X12A  
1616-X12A  
0810-X12C  
1010-X12C  
1212-X12C  
1616-X12C



**SVAPR/L**

0808-X11A  
1010-X11A  
1212-X11A  
1616-X11A



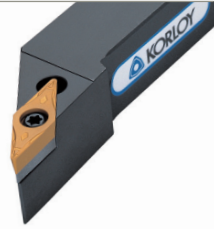
**SVJBR/L**

1010-X11A  
1212-X11A  
1616-X11A



**SVJCR/L**

1010-X11A  
1212-X11A  
1616-X11A  
0810-X12A  
1010-X12A  
1212-X12A  
1616-X12A  
0810-X12C  
1010-X12C  
1212-X12C  
1616-X12C



**SVJPR/L**

0810-X11A  
1010-X11A  
1212-X11A  
1616-X11A



**SVVPN**

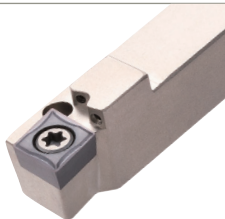
0810-X11A  
1010-X11A  
1212-X11A  
1616-X11A



» KHP

**SCLCR/L**

122-X09A-KHP



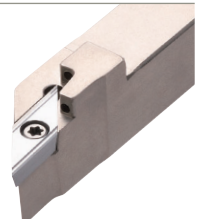
**SDJCR/L**

122-X07A-KHP  
122-X11A-KHP



**SVJCR/L**

122-X11A-KHP  
122-X12A-KHP

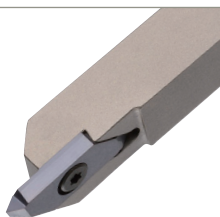


## » Tipo de Lamas

### SBHR/L

1010-K25  
1212-K25  
1616-K25

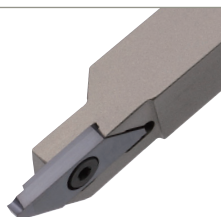
Inserto : SBT



### SBHR/L-X

1010-K25-X  
1212-K25-X

Inserto : SBG, SBC

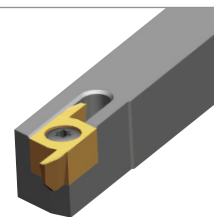


## » Tipo de multifuncionales

### SXGNR/L

1010-X06A  
1212-X06A  
1616-X06A  
2020-X06A  
1212-X08A  
1616-X08A  
2020-X08A

Inserto : SB



## » Tipo de KGT/MGT

### KGEHR/L-D00A

1010-2-D20A  
1212-2-D25A  
1414-2-D25A  
1616-2-D32A  
1212-3-D25A  
1616-3-D32A

Inserto : KGMN



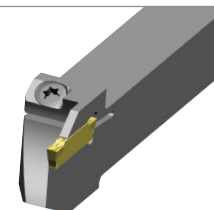
### KGEHR/L-D00B

1010-2-D30B  
1212-2-D25B  
1212-2-D30B  
1616-2-D32B  
1212-3-D25B  
1212-3-D32B  
1616-3-D32B



### MGEHR/L

1010-X15A  
1212-X15A  
1010-X20A  
1212-X20A  
1616-X20A  
1010-X25A  
1212-X25A  
1616-X25A





## KGEHR/L

- 1212-□-T□□
- 1616-□-T□□
- 2020-□-T□□
- 2525-□-T□□
- 3232-□-T□□

**Inserto**  
KGGN KRGN  
KGMN KRMN  
KGMR/L



## KGEHR/L-D00A

Auto Tool

- 1010-□-□□□A
- 1212-□-□□□A
- 1414-□-□□□A
- 1616-□-□□□A

**Inserto**  
KGGN KRMN  
KGMN KRGN  
KGMR/L



## KGEHR/L-D00B

Auto Tool

- 1010-□-□□□B
- 1212-□-□□□B
- 1414-□-□□□B
- 1616-□-□□□B

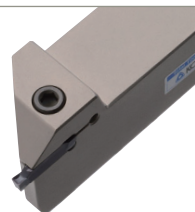
**Inserto**  
KGGN KGMR/L  
KGMN KRMN



## KGEHR/L-T00

- 1616-□-T00
- 2020-□-T00
- 2525-□-T00

**Inserto**  
KGGN KRGN  
KGMN KRMN



## KGEVR/L-T00

- 2020-□-T00
- 2525-□-T00
- 3232-□-T00

**Inserto**  
KGGN KRGN  
KGMN KRMN



## KGEUR/L

- 1616-□
- 2020-□
- 2525-□
- 3232-□

**Inserto**  
KRGN KRMN



## KGFVR/L

- 325-□/□-T□□
- 425-□/□-T□□
- 525-□/□-T□□
- 625-□/□-T□□

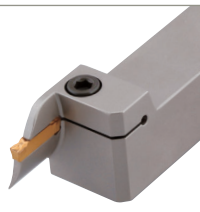
**Inserto**  
KGGN KRGN  
KGMN KRMN



## KGFHR/L

- 320-□/□-T□□
- 325-□/□-T□□
- 420-□/□-T□□
- 425-□/□-T□□
- 525-□/□-T□□
- 625-□/□-T□□

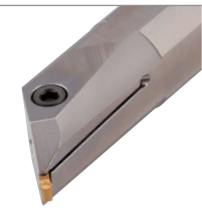
**Inserto**  
KGGN KRGN  
KGMN KRMN



## KGIUR/L

- 3520-□
- 4025-□
- 5032-□

**Inserto**  
KRGN KRMN



## KGIVR/L

- 2016-□ 3225-□
- 2516-□ 4032-□
- 2520-□ 4540-□

**Inserto**  
KGGN KRMI  
KGMN KRMN  
KGMN



## KGTB (Lamas)

- 1526S 4026S
- 1532 4032
- 2026S 5032
- 2032 6032
- 3026S 8032S
- 3032

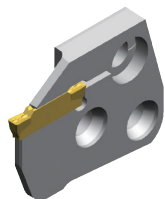
**Inserto**  
KG□□



## KCER/L (Cartucho)

- 3-T16 5-T20
- 4-T16 6-T20

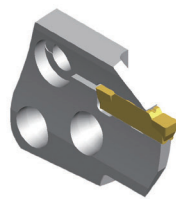
**Inserto**  
KGGN KGMR/L  
KGMN KRMN



## KCFR/L (Cartucho)

- 3-34/50-T16
- 3-44/70-T16
- 3-64/99-T16
- 4-44/60-T16
- 4-60/120-T16
- 4-112/200-T16

**Inserto**  
KGMN KGMN





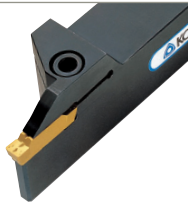
## » MGT

### MGEHR/L

1212-□ 2525-□  
1616-□ 2525-□-T□  
2020-□ 3232-□  
2020-□-T□ 3232-□-T□

**Inserto**

MGGN MRGN  
MGMN MRMN  
MGMR



### MGEUR/L

2020-□ 2525-□A  
2525-□ 3232-□A  
3232-□

**Inserto**

KGGN KRMN  
KGMN KRGN  
KGMR/L



### MGEVR/L

2020-□  
2525-□  
3232-□

**Inserto**

KGGN KGMR/L  
KGMN KRMN



### MGIUR/L

3520-□ 4025-□A  
4025-□ 5032-□A  
5032-□

**Inserto**

MRGN MRMN



### MGIVR/L

2016-□ 2520-□-T□  
2520-□ 3125-□-T□  
2925-□ 3732-□-T□  
3125-□  
3732-□  
4540-□

**Inserto**

MGGN MRGN  
MGMN MRMN



## » Cartucho MGT

### MCER/L (Cartucho)

3-T16  
4-T16  
5-T20  
6-T20

**Inserto**

MGMN MGGN  
MGMR MRMN



### MCFR/L (Cartucho)

3-24/35-T16 3-64/99-T16  
3-29/40-T16 4-44/60-T16  
3-34/50-T16 4-60/120-T16  
3-44/70-T16 4-112/200-T16

**Inserto**

MFNM MGMN



### MCHR/L (Porta)

2020  
2525  
3232

**Inserto**

MCER/L MCFR/L



### MCVR/L (Porta)

2020  
2525  
3232

**Inserto**

MCER/L MCFR/L



## » K Notch

### KNSR

1.01E+05 2525M3  
1212F2 322593  
1616H2 323293  
2020K2 2525M4  
2525M2 3225P4  
2020K3 3232P4

**Inserto**

KNB KNR  
KNG KNRP  
KNGP KNT



## » Saw-Man X

### KSPB (Lamas)

2026 4032  
2032 5026  
3026 5032  
3032 6026  
4026 6032

**Inserto**

KSP



## » Saw-Man

### SMBB (Bloque)

1626 2526  
2026 2532  
2032 3232

Inserto : SP



### SPB (Lamas)

226 232  
326 332  
426 432  
526 532  
626 632

Inserto : SP



### SPB-S (Lamas)

226-S 432-S  
326-S 532-S  
426-S 632-S  
526-S 832-S  
626-S 932-S  
232-S 8526-S  
332-S 9526-S

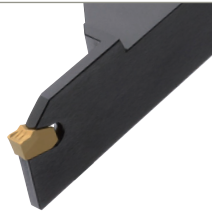
Inserto : SP



### SPH (Porta)

316R/L 325R/L  
320R/L 425R/L  
420R/L 525R/L  
520R/L

Inserto : SP



### SPH-S (Porta)

316R/L-S 325R/L-S  
320R/L-S 425R/L-S  
420R/L-S 525R/L-S  
520R/L-S

Inserto : SP



## » Corte interior

### GFIK

316R/L 525R/L  
325R/L 540R/L  
340R/L 840R/L

Inserto : GR



### GFIP

316R/L 525R/L  
320R/L 540R/L  
325R/L 840R/L  
340R/L

Inserto : BF, GW



### IGH

214R/L 220R/L  
216R/L

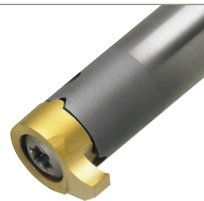
Inserto : IG



### NFTIH

08206C 11208C 14012C 14312C 16316C  
08212C 11212C 14016C 14316C 16416C  
08312C 11312C 14112C 16312C 16516C  
08312S 11312S 14116C 16312S  
08412C 11412C 14212C 16412C  
08512C 11512C 14216C 16512C

Inserto : NFTF, NFTG, NFFT



## » Corte exterior

### DBH

320R/L 525R/L  
325R/L 720R/L  
520R/L 725R/L

Inserto : DB, DC



### EH

620R 625R

Inserto : ESB



### GFT

320R/L 525R/L  
325R/L 825R/L

Inserto : GW, BF



## » Corte exterior

### GH

2020R/L-3 2020R/L-4  
2025R/L-3 2525R/L-4

Inserto : GO, GS



### TBH

320R/L-23 425R/L-23  
320R/L-33 425R/L-33  
320R/L-43 425R/L-45  
325R/L-23 510R/L  
325R/L-33 512R/L  
325R/L-43 516R/L  
420R/L-23 520R/L  
420R/L-33 525R/L  
420R/L-45

Inserto : TB, TB-M



### PH

320R/L 425R/L  
325R/L 520R/L  
420R/L 525R/L

Inserto : POB



## » Herramientas para ranurado frontal

### MGFHR/L

325-24/35-T10 325-64/99-T10  
325-29/40-T10 425-62/120-T15  
325-34/50-T10 425-112/200-T15  
325-44/70-T10

Inserto : MFMN, MGMM



### MGFVR/L

325-24/35-T10 325-64/99-T10  
325-29/40-T10 425-44/60-T10  
325-34/50-T10 425-60/120-T10  
325-44/70-T10 425-112/200-T10

Inserto : MFMN, MGMM



### MGFVR/L

320R 425R  
325R 520R  
420R 525R

Inserto : FGD, FGM, FMM



## » Roscado

### ER(L)H

Sistema con tornillo

ER(L)H□□-□□

Inserto : ER, ERM



### ER(L)H-C

Sistema de brida

ER(L)H□□-□□C

Inserto : ER, ERM, ERM-U



### IR(L)H

Sistema de brida

IR(L)H□□-□□

Inserto : IR, IRM, IRM-U



### IR(L)H-C

Sistema de brida

IR(L)H□□-□□C

Inserto : IR, IRM, IRM-U



### VTH

2020R  
2525R  
3225R

Inserto : VETR



# Herramientas de fresado

KORLOY proporciona fresas de alta calidad gracias a su tecnología avanzada y al conocimiento acumulado de los sistemas de herramientas, llevando a cabo valores para una mayor productividad y resultados de calidad.

- Fresas para careado
- Fresas multifuncionales
- Fresas para aluminio
- Fresas para alto avance
- Cortadores laterales

# Fresas para careado



## RM3PC(M)3000/4000/5000

### ► 3000 Tipo

: Ø40 ~ Ø80mm

#### Inserto

XNKT060405PNER-ML  
XNKT060405PNSR-MM  
XNKT060408PNER-ML  
XNKT060408PNSR-MM

### ► 4000 Tipo

: Ø40 ~ Ø125mm

#### Inserto

XNCT080504PNFR-MA XNKT080508PNSR-MM  
XNCT080508PNFR-MA XNKT080512PNER-ML  
XNCT080512PNFR-MA XNKT080512PNSR-MM  
XNCT080520PNFR-MA XNKT080516PNER-ML  
XNKT080504PNER-ML XNKT080516PNSR-MM  
XNKT080504PNSR-MM XNKT080520PNER-ML  
XNKT080508PNER-ML XNKT080520PNSR-MM

### ► 5000 Tipo

: Ø80 ~ Ø125mm

#### Inserto

XNCT120608PNFR-MA XNKT120612PNSR-MM  
XNKT120604PNSR-MM XNKT120616PNER-ML  
XNKT120608PNER-ML XNKT120616PNSR-MM  
XNKT120608PNSR-MM XNKT120620PNER-ML  
XNKT120612PNER-ML XNKT120620PNSR-MM



## RM3PS3000/4000

### ► 3000 Tipo

: Ø20 ~ Ø40mm

#### Inserto

XNKT060405PNER-ML  
XNKT060405PNSR-MM  
XNKT060408PNER-ML  
XNKT060408PNSR-MM

### ► 4000 Tipo

: Ø32 ~ Ø63mm

#### Inserto

XNCT080504PNFR-MA XNKT080504PNSR-MM XNKT080516PNER-ML  
XNCT080508PNFR-MA XNKT080508PNER-ML XNKT080516PNSR-MM  
XNCT080512PNFR-MA XNKT080508PNSR-MM XNKT080520PNER-ML  
XNCT080520PNFR-MA XNKT080512PNER-ML XNKT080520PNSR-MM  
XNKT080504PNER-ML XNKT080512PNSR-MM



## RM3PM3000/4000

### ► 3000 Tipo

: Ø20 ~ Ø40mm

#### Inserto

XNKT060405PNER-ML  
XNKT060405PNSR-MM  
XNKT060408PNER-ML  
XNKT060408PNSR-MM

### ► 4000 Tipo

: Ø32 ~ Ø63mm

#### Inserto

XNCT080504PNFR-MA XNKT080504PNSR-MM XNKT080516PNER-ML  
XNCT080508PNFR-MA XNKT080508PNER-ML XNKT080516PNSR-MM  
XNCT080512PNFR-MA XNKT080508PNSR-MM XNKT080520PNER-ML  
XNCT080520PNFR-MA XNKT080512PNER-ML XNKT080520PNSR-MM  
XNKT080504PNER-ML XNKT080512PNSR-MM



## RM4PC(M)3000/4000

### ► 3000 Tipo

: Ø40 ~ Ø100mm

#### Inserto

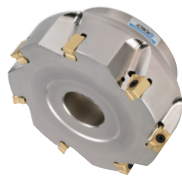
LNEX100605PNR-MA  
LNEX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNMX100608PNR-MF/MM

### ► 4000 Tipo

: Ø50 ~ Ø160mm

#### Inserto

LNEX151004PNR-MA  
LNEX151004PNR-MF/MM  
LNEX151008PNR-MA  
LNEX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNMX151016PNR-MF/MM



## RM4PS3000/4000

### ► 3000 Tipo

: Ø14 ~ Ø50mm

#### Inserto

LNEX100605PNR-MA  
LNEX100605PNR-MF/MM  
LNEX100605PNL-MM  
LNMX100605PNR-MF/MM  
LNMX100608PNR-MF/MM

### ► 4000 Tipo

: Ø32 ~ Ø63mm

#### Inserto

LNEX151004PNR-MA  
LNEX151004PNR-MF/MM  
LNEX151008PNR-MA  
LNEX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNMX151016PNR-MF/MM



## RM4PM3000

### ► 3000 Tipo

: Ø14 ~ Ø50mm

#### Inserto

LNEX100605PNR-MA  
LNEX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNMX100608PNR-MF/MM  
LNMX100608PNR-MF/MM



## RM4ZC(M)3000/4000

### ► 3000 Tipo

: Ø40 ~ Ø63mm

#### Inserto

LNEX100605PNL-MM  
LNMX100605PNL-MM

### ► 4000 Tipo

: Ø66 ~ Ø100mm

#### Inserto

LNEX151008PNL-MM  
LNMX151008PNL-MM



\* La información de adaptador está en la página 104

## Rich Mill

### RM4ZS3000

- **3000 Tipo**  
: Ø25 ~ Ø40mm

**Inserto**  
LNEX100605PNL-MM  
LNMX100605PNL-MM



### RM4ZM3000

- **3000 / 4000 Tipo**  
: Ø25 ~ Ø40mm

**Inserto**  
LNEX100605PNL-MM  
LNMX100605PNL-MM



• La información de adaptador está en la página 88

### RM6PC(M)-WN04/08

- **WN04**

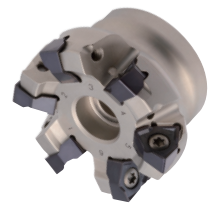
: Ø40 ~ Ø63mm

**Inserto**  
WNGX040304PNFR-MA WNGX040304PNSR-MM  
WNGX040308PNFR-MA WNGX040308PNSR-MM  
WNGX040312PNFR-MA WNGX040312PNSR-MM  
WNGX040316PNFR-MA WNGX040316PNSR-MM  
WNGX040304PNER-ML  
WNGX040308PNER-ML  
WNGX040312PNER-ML  
WNGX040316PNER-ML

- **WN08**

: Ø50 ~ Ø125mm

**Inserto**  
WNGX080604PNFR-MA WNGX080616PNER-ML  
WNGX080608PNFR-MA WNGX080620PNER-ML  
WNGX080612PNFR-MA WNGX080604PNSR-MM  
WNGX080616PNFR-MA WNGX080608PNSR-MM  
WNGX080620PNFR-MA WNGX080612PNSR-MM  
WNGX080604PNER-ML WNGX080616PNSR-MM  
WNGX080608PNER-ML WNGX080620PNSR-MM  
WNGX080612PNER-ML



### RM6PS-WN04/08

- **WN04**

: Ø20 ~ Ø32mm

**Inserto**  
WNGX040304PNFR-MA WNGX040304PNSR-MM  
WNGX040308PNFR-MA WNGX040308PNSR-MM  
WNGX040312PNFR-MA WNGX040312PNSR-MM  
WNGX040316PNFR-MA WNGX040316PNSR-MM  
WNGX040304PNER-ML  
WNGX040308PNER-ML  
WNGX040312PNER-ML  
WNGX040316PNER-ML

- **WN08**

: Ø32 ~ Ø50mm

**Inserto**  
WNGX080604PNFR-MA WNGX080616PNER-ML  
WNGX080608PNFR-MA WNGX080620PNER-ML  
WNGX080612PNFR-MA WNGX080604PNSR-MM  
WNGX080616PNFR-MA WNGX080608PNSR-MM  
WNGX080620PNFR-MA WNGX080612PNSR-MM  
WNGX080604PNER-ML WNGX080616PNSR-MM  
WNGX080608PNER-ML WNGX080620PNSR-MM  
WNGX080612PNER-ML



### RM6PM-WN04/08

- **WN04**

: Ø20 ~ Ø32mm

**Inserto**  
WNGX040304PNFR-MA WNGX040312PNER-ML  
WNGX040308PNFR-MA WNGX040316PNER-ML  
WNGX040312PNFR-MA WNGX040304PNSR-MM  
WNGX040316PNFR-MA WNGX040308PNSR-MM  
WNGX040304PNER-ML WNGX040312PNSR-MM  
WNGX040308PNER-ML WNGX040316PNSR-MM

- **WN08**

: Ø32 ~ Ø40mm

**Inserto**  
WNGX080604PNFR-MA WNGX080616PNER-ML  
WNGX080608PNFR-MA WNGX080620PNER-ML  
WNGX080612PNFR-MA WNGX080604PNSR-MM  
WNGX080616PNFR-MA WNGX080608PNSR-MM  
WNGX080620PNFR-MA WNGX080612PNSR-MM  
WNGX080604PNER-ML WNGX080616PNSR-MM  
WNGX080608PNER-ML WNGX080620PNSR-MM  
WNGX080612PNER-ML



### RM8AC(M)4000/5000

- **4000 Tipo**

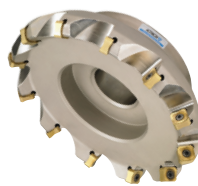
: Ø50 ~ Ø400mm

**Inserto**  
SNEX1206ANN-MA  
SNEX1206ANN-MF  
SNEX1206ANN-ML  
SNEX1206ANN-MM  
SNEX1206ANN-W  
SNMX1206ANN-MF  
SNMX1206ANN-MM

- **5000 Tipo**

: Ø80 ~ Ø400mm

**Inserto**  
SNEX1507ANN-MF  
SNEX1507ANN-ML  
SNEX1507ANN-MM  
SNMX1507ANN-MF  
SNMX1507ANN-MM



### RMH8AC(M)4000/5000

Con placa de apoyo

- **4000 Tipo**

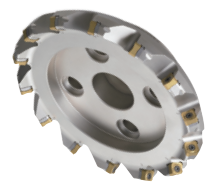
: Ø80 ~ Ø400mm

**Inserto**  
SNEX1206ANN-MA  
SNEX1206ANN-MF  
SNEX1206ANN-ML  
SNEX1206ANN-MM  
SNEX1206ANN-W  
SNMX1206ANN-MF  
SNMX1206ANN-MM

- **5000 Tipo**

: Ø80 ~ Ø400mm

**Inserto**  
SNEX1507ANN-MF  
SNEX1507ANN-ML  
SNEX1507ANN-MM  
SNMX1507ANN-MF  
SNMX1507ANN-MM



## Rich Mill

### RM8EC(M)4000/5000

#### ► 4000 Tipo

: Ø50 ~ Ø400mm

#### Inserto

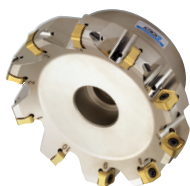
SNEX1206ENN-MA  
SNEX1206ENN-MF  
SNEX1206ENN-ML  
SNEX1206ENN-MM  
SNMX1206ENN-MF  
SNMX1206ENN-MM

#### ► 5000 Tipo

: Ø80 ~ Ø400mm

#### Inserto

SNEX1507ENN-MF  
SNEX1507ENN-ML  
SNEX1507ENN-MM  
SNMX1507ENN-MF  
SNMX1507ENN-MM



### RMH8EC(M)4000/5000

Con placa de apoyo

#### ► 4000 Tipo

: Ø80 ~ Ø400mm

#### Inserto

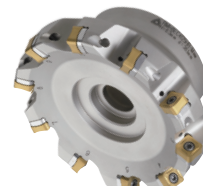
SNEX1206ENN-MA  
SNEX1206ENN-MF  
SNEX1206ENN-ML  
SNEX1206ENN-MM  
SNMX1206ENN-MF  
SNMX1206ENN-MM

#### ► 5000 Tipo

: Ø80 ~ Ø400mm

#### Inserto

SNEX1507ENN-MF  
SNEX1507ENN-ML  
SNEX1507ENN-MM  
SNMX1507ENN-MF  
SNMX1507ENN-MM



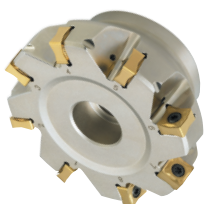
### RM8QC(M)4000

#### ► 4000 Tipo

: Ø63 ~ Ø200mm

#### Inserto

SNEX1206QNN-MA	SNEX120612-ML
SNEX1206QNN-MF	SNEX120612-MM
SNEX1206QNN-ML	SNMX1206QNN-MF
SNEX1206QNN-MM	SNMX1206QNN-MM
SNEX120612-MA	SNMX120612-MF
SNEX120612-MF	SNMX120612-MM



### RMH8QC(M)4000

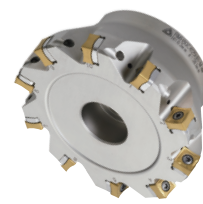
Con placa de apoyo

#### ► 4000 Tipo

: Ø80 ~ Ø200mm

#### Inserto

SNEX1206QNN-MA	SNEX120612-ML
SNEX1206QNN-MF	SNEX120612-MM
SNEX1206QNN-ML	SNMX1206QNN-MF
SNEX1206QNN-MM	SNMX1206QNN-MM
SNEX120612-MA	SNMX120612-MF
SNEX120612-MF	SNMX120612-MM



### RMT8A(M)4000/5000

#### ► 4000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

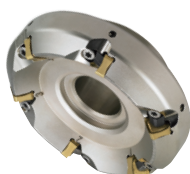
SNCF1206ANN-MF/MM  
SNMF1206ANN-MF/MM

#### ► 5000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

SNCF1507ANN-MF/MM  
SNMF1507ANN-MF/MM



### RMT8E(M)4000/5000

#### ► 4000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

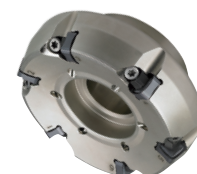
SNCF1206ANN-MF/MM  
SNMF1206ANN-MF/MM

#### ► 5000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

SNCF1507ANN-MF/MM  
SNMF1507ANN-MF/MM



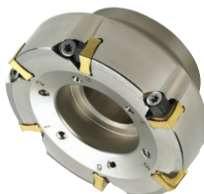
### RMT8Q(M)4000

#### ► 4000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

SNMF1206QNN-MF/MM  
SNMF1206QNN-MF/MM



### RM16AC(M)6000/8000

#### ► 6000 Tipo

: Ø63 ~ Ø400mm

#### Inserto

ONHX060608-MA  
ONHX060608-MF  
ONHX060608-ML  
ONHX060608-MM  
ONHX060608-W  
ONHX0606ANN-MF  
ONHX0606ANN-MM  
ONMX060608-MF  
ONMX060608-MM  
ONMX0606ANN-MF  
ONMX0606ANN-MM

#### ► 8000 Tipo

: Ø63 ~ Ø400mm

#### Inserto

ONHX080608-MA  
ONHX080608-MF  
ONHX080608-ML  
ONHX080608-MM  
ONHX080608-W  
ONHX0806ANN-MF  
ONHX0806ANN-MM  
ONMX080608-MF  
ONMX080608-MM  
ONMX0806ANN-MF  
ONMX0806ANN-MM



## Rich Mill (cortadores laterales)

### RM4PFCB3000/4000

#### ▶ 3000 Tipo

: Ø80 ~ Ø160mm

#### Inserto

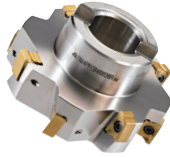
LNEX100605PNR-MM  
LNEX100605PNL-MM  
LNMX100605PNR-MM  
LNMX100605PNL-MM

#### ▶ 4000 Tipo

: Ø80 ~ Ø160mm

#### Inserto

LNEX151008PNR-MM  
LNEX151008PNL-MM  
LNMX151008PNR-MM  
LNMX151008PNL-MM



### RM4PHCB3000/4000

#### ▶ 3000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

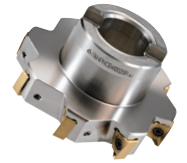
LNEX100605PNR-MA  
LNEX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNMX100608PNR-MF/MM

#### ▶ 4000 Tipo

: Ø80 ~ Ø160mm

#### Inserto

LNEX151004PNR-MA  
LNEX151008PNR-MA  
LNEX151004PNR-MF/MM  
LNEX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNMX151016PNR-MF/MM



### RM4PFCP3000/4000

#### ▶ 3000 Tipo

: Ø80 ~ Ø160mm

#### Inserto

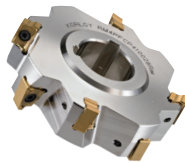
LNEX100605PNR-MM  
LNEX100605PNL-MM  
LNMX100605PNR-MM  
LNMX100605PNL-MM

#### ▶ 4000 Tipo

: Ø80 ~ Ø160mm

#### Inserto

LNEX151008PNR-MM  
LNEX151008PNL-MM  
LNMX151008PNR-MM  
LNMX151008PNL-MM



### RM4PHCP3000/4000

#### ▶ 3000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

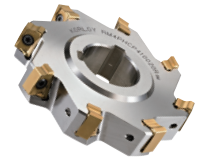
LNEX100605PNR-MA  
LNEX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNMX100608PNR-MF/MM

#### ▶ 4000 Tipo

: Ø80 ~ Ø160mm

#### Inserto

LNEX151004PNR-MA  
LNEX151008PNR-MA  
LNEX151004PNR-MF/MM  
LNEX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNMX151016PNR-MF/MM



## Tangen-Pro TP2P

### TP2PCM-LN08

Ø40 ~ Ø63mm

#### Inserto

LNKT080404PNR-MA  
LNKT080408PNR-MA  
LNKT080404PNR-ML  
LNKT080408PNR-ML  
LNKT080404PNR-MM  
LNKT080408PNR-MM



### TP2PC(M)-LN14

Ø40 ~ Ø125mm

#### Inserto

LNKT140608PNR-MA  
LNKT140608PNR-ML  
LNKT140608PNR-MM



### TP2PC(M)-LN17

Ø40 ~ Ø125mm

#### Inserto

LNKT170704PNR-MA LNKT170716PNR-ML  
LNKT170708PNR-MA LNKT170720PNR-ML  
LNKT170712PNR-MA LNKT170704PNR-MM  
LNKT170716PNR-MA LNKT170708PNR-MM  
LNKT170720PNR-MA LNKT170712PNR-MM  
LNKT170704PNR-ML LNKT170716PNR-MM  
LNKT170708PNR-ML LNKT170720PNR-MM  
LNKT170712PNR-ML



### TP2PS-LN08

Ø20 ~ Ø25mm

#### Inserto

LNKT080404PNR-MA  
LNKT080408PNR-MA  
LNKT080404PNR-ML  
LNKT080408PNR-ML  
LNKT080404PNR-MM  
LNKT080408PNR-MM



### TP2PS-LN14

Ø25 ~ Ø50mm

#### Inserto

LNKT140608PNR-MA  
LNKT140608PNR-ML  
LNKT140608PNR-MM



### TP2PS-LN17

Ø40 ~ Ø125mm

#### Inserto

LNKT170704PNR-MA LNKT170716PNR-ML  
LNKT170708PNR-MA LNKT170720PNR-ML  
LNKT170712PNR-MA LNKT170704PNR-MM  
LNKT170716PNR-MA LNKT170708PNR-MM  
LNKT170720PNR-MA LNKT170712PNR-MM  
LNKT170704PNR-ML LNKT170716PNR-MM  
LNKT170708PNR-ML LNKT170720PNR-MM  
LNKT170712PNR-ML





## Future Mill

### FMAC(M)3000/4000

#### ▶ 3000 Tipo

: Ø25 ~ Ø125mm

#### Inserto

SEET0903AGFN-MA  
SEET0903AGSN-MF/MM  
SEXT0903AGSN-MF/MM/MR  
SEEW0903AGTN

#### ▶ 4000 Tipo

: Ø80 ~ Ø160mm

#### Inserto

SEET14M4AGFN-MA  
SEET14M4AGSN-MF/MM  
SEXT14M4AGSN-MF/MF/MR  
SEEW14M4AGTN  
SEEW14M4AGFN-W  
SEEW14M4AGSN-W  
SEEW14M4AGTN-W



### FMAC(M)3000-A/4000-A

Cuerpo de aluminio

#### ▶ 3000 Tipo

: Ø63 ~ Ø215mm

#### Inserto

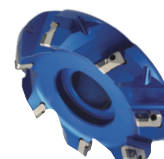
SEET0903AGFN-MA  
SEET0903AGSN-MF/MM  
SEXT0903AGSN-MF/MM/MR  
SEEW0903AGTN

#### ▶ 4000 Tipo

: Ø63 ~ Ø315mm

#### Inserto

SEET14M4AGFN-MA  
SEET14M4AGSN-MF/MM  
SEXT14M4AGSN-MF/MM/MR  
SEEW14M4AGTN  
SEEW14M4AGFN-W  
SEEW14M4AGSN-W  
SEEW14M4AGTN-W



### FMAS3000/4000

#### ▶ 3000 Tipo

: Ø25 ~ Ø63mm

#### Inserto

SEET0903AGFN-MA  
SEET0903AGSN-MF/MM  
SEXT0903AGSN-MF/MM/MR  
SEEW0903AGTN

#### ▶ 4000 Tipo

: Ø50 ~ Ø63mm

#### Inserto

SEET14M4AGFN-MA  
SEET14M4AGSN-MF/MM  
SEXT14M4AGSN-MF/MM/MR  
SEEW14M4AGTN  
SEEW14M4AGFN-W  
SEEW14M4AGSN-W  
SEEW14M4AGTN-W



### FMPC(M)3000/4000

#### ▶ 3000 Tipo

: Ø50 ~ Ø100mm

#### Inserto

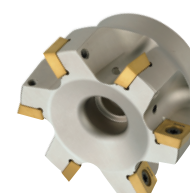
SDET09M402R-MA  
SDET09M405R-MF/MM  
SDXT09M405R-MA  
SDXT09M405R/L-MF  
SDXT09M405R/L-MM

#### ▶ 4000 Tipo

: Ø63 ~ Ø125mm

#### Inserto

SDET130504R-MA  
SDET130508R-MF/MM  
SDXT130508R-MA  
SDXT130508R-MF/MM



### FMPC(M)3000-A/4000-A

Cuerpo de aluminio

#### ▶ 3000 Tipo

: Ø63 ~ Ø100mm

#### Inserto

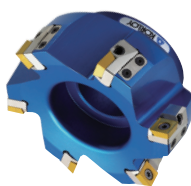
SDET09M402R-MA  
SDET09M405R-MF/MM  
SDXT09M405R-MA  
SDXT09M405R/L-MF  
SDXT09M405R/L-MM

#### ▶ 4000 Tipo

: Ø63 ~ Ø315mm

#### Inserto

SDET130504R-MA  
SDET130508R-MF/MM  
SDXT130508R-MA  
SDXT130508R-MF/MM



### FMPS3000/4000

#### ▶ 3000 Tipo

: Ø25 ~ Ø63mm

#### Inserto

SDET09M402R-MA  
SDET09M405R-MF/MM  
SDXT09M405R-MA  
SDXT09M405R/L-MF  
SDXT09M405R/L-MM

#### ▶ 4000 Tipo

: Ø40 ~ Ø63mm

#### Inserto

SDET130504R-MA  
SDET130508R-MF/MM  
SDXT130508R-MA  
SDXT130508R-MF/MM



## Future Mill

### FMRC(M)3000/4000

#### ▶ 3000 Tipo

: Ø40 ~ Ø100mm

#### Inserto

RDCT10T3M0-MA  
RDKT10T3M0-MF/MM

#### ▶ 4000 Tipo

: Ø50 ~ Ø125mm

#### Inserto

RDCT1204M0-MA  
RDKT1204M0-MF/MM



### FMRC(M)5000/6000

#### ▶ 5000 Tipo

: Ø50 ~ Ø125mm

#### Inserto

RDCT10T3M0-MA  
RDKT10T3M0-MF/MM

#### ▶ 6000 Tipo

: Ø63 ~ Ø160mm

#### Inserto

RDCT1204M0-MA  
RDKT1204M0-MF/MM



### FMRS1000/1500

#### ▶ 1000 Tipo

: Ø8 ~ Ø15mm

#### Inserto

RDHW0501M0E, F, S  
RDKW0501M0E

#### ▶ 1500 Tipo

: Ø10 ~ Ø20mm

#### Inserto

RDHW06T1M0E, F, S  
RDKW06T1M0E



### FMRS2000/2500

#### ▶ 2000 Tipo

: Ø15 ~ Ø20mm

#### Inserto

RDHW0702M0E, F, S  
RDKW0702M0E

#### ▶ 2500 Tipo

: Ø16 ~ Ø25mm

#### Inserto

RDHW0803M0E, F, S  
RDKW0803M0E



## Future Mill

### FMRS3000/4000

#### ▶ 3000 Tipo

: Ø21 ~ Ø40mm

#### Inserto

RDCT10T3M0-MA  
RDKT10T3M0-MF/MM

#### ▶ 4000 Tipo

: Ø32 ~ Ø50mm

#### Inserto

RDCT1204M0-MA  
RDKT1204M0-MF/MM



### FMRS5000/6000

#### ▶ 5000 Tipo

: Ø40 ~ Ø63mm

#### Inserto

RDHW1605M0E, F, S  
RDKT1605M0-MF/ML/MM

#### ▶ 6000 Tipo

: Ø50 ~ Ø63mm

#### Inserto

RDHW2006M0E, F, S  
RDKT2006M0-MM



### FMRM1000/1500/2000/2500

#### ▶ 1000/1500/2000/2500 Tipo

: Ø8 ~ Ø25mm

#### Inserto

RDHW0501M0E,F,S  
RDKW0501M0E  
RDHW06T1M0E,F,S  
RDKW06T1M0E

RDHW0702M0E.F.S  
RDKW0702M0E  
RDHW0803M0E,F,S  
RDKW0803M0E



### FMRM3000/4000/5000

#### ▶ 3000/4000/5000 Tipo

: Ø21 ~ Ø40mm

#### Inserto

RDCT10T3M0-MA  
RDKT10T3M0-MF/MM  
RDCT1204M0-MA

RDKT1204M0-MF/MM  
RDHW1605M0E, F, S  
RDKT1605M0-MM/ML



## FMR P-positivo

### FMRC(M)3000/4000

#### ▶ 3000 Tipo

: Ø40 ~ Ø66mm

#### Inserto

RPCT10T3M0-MA  
RPET10T3M0E-ML  
RPMT10T3M0E-MF  
RPMT10T3M0S-MM  
RPMW10T3M0E1

#### ▶ 4000 Tipo

: Ø50 ~ Ø100mm

#### Inserto

RPCT1204M0-MA  
RPET1204M0E-ML  
RPMT1204M0E-MF  
RPMT1204M0S-MM  
RPMW1204M0S1  
RPMW1204M0S2



### FMRC(M)5000/6000

#### ▶ 5000 Tipo

: Ø63 ~ Ø160mm

#### Inserto

RPCT1606M0-MA  
RPET1606M0E-ML  
RPMT1606M0E-MF  
RPMT1606M0S-MM  
RPMW1606M0S1

#### ▶ 6000 Tipo

: Ø63 ~ Ø250mm

#### Inserto

RPCT2007M0-MA  
RPET2007M0E-ML  
RPMT2007M0E-MF  
RPMT2007M0S-MM  
RPMW2007M0S1



### FMRS2500

#### ▶ 2500 Tipo

: Ø17 ~ Ø26mm

#### Inserto

RPET0803M0E-ML  
RPMT0803M0E-MF  
RPMT0803M0S-MM  
RPMW0803M0E1



### FMRS3000/4000

#### ▶ 3000 Tipo

: Ø25 ~ Ø33mm

#### Inserto

RPCT10T3M0-MA  
RPET10T3M0E-ML  
RPMT10T3M0E-MF  
RPMT10T3M0S-MM  
RPMW10T3M0E1

#### ▶ 4000 Tipo

: Ø25 ~ Ø50mm

#### Inserto

RPCT1204M0-MA  
RPET1204M0E-ML  
RPMT1204M0E-MF  
RPMT1204M0S-MM  
RPMW1204M0S1  
RPMW1204M0S2



### FMRS5000

#### ▶ 5000 Tipo

: Ø40 ~ Ø50mm

#### Inserto

RPCT1606M0-MA  
RPET1606M0E-ML  
RPMT1606M0E-MF  
RPMT1606M0S-MM  
RPMW1606M0S1



### FMRS6000

#### ▶ 6000 Tipo

: Ø50mm

#### Inserto

RPCT2007M0-MA  
RPCT2007M0E-ML  
RPMT2007M0E-MF  
RPMT2007M0S-MM  
RPMW2007M0S1



## » FMR P-positivo

### FMRM2500/3000/4000/5000

#### ► 2500/3000/4000/5000 Tipo

: Ø17 ~ Ø42mm

##### Inserto

RPET0803M0E-ML	RPET10T3M0E-ML	RPET1204M0E-ML	RPCT1606M0-MA
RPMT0803M0E-MF	RPMT10T3M0E-MF	RPMT1204M0E-MF	RPET1606M0E-ML
RPMT0803M0S-MM	RPMT10T3M0S-MM	RPMT1204M0S-MM	RPMT1606M0E-MF
RPMW0803M0E1	RPMW10T3M0E1	RPMW1204M0S1	RPMT1606M0S-MM
RPCT10T3M0-MA	RPCT1204M0-MA	RPMW1204M0S2	RPMW1606M0S1



## » Double-Mill

### AFO(M)4000

#### ► 4000 Tipo

: Ø80 ~ Ø125mm

##### Inserto

OFCW05T3FN	OFKT05T3EN-MA
OFCW05T3SN	OFKT05T3FN-MA
OFCW05T308FN	OFKT05T3SN-MF/MM
	OFKT05T308SN-MF/MM



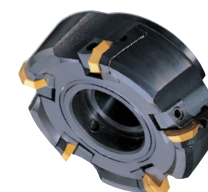
### AFO(M)5000

#### ► 5000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

OFCN0704FN	OFKR0704SN-MF/MM
OFCN0704SN	OFKR0704E(F)N-MA
OFCN070408FN	OFKR070408SN-MF/MM
OFCN070408SN	OFKT0704E(F)N-MA
	OFKT0704SN-MM
	REKR170400-MM



## » Power Buster

### PBAC(M)5000

#### ► 5000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

TNMX2710AZNR-NM
TNMX2710AZNL-NM



### PBZC(M)5000

#### ► 5000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

TNMX2710AZNR-NM
TNMX2710AZNL-NM



## » Mill-Max

### ADN(M)4000/5000+

#### ► 4000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

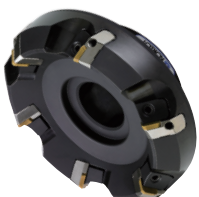
SDCN42
SDCN1203
SDKN1203
SDKR1203

#### ► 5000+ Tipo

: Ø80 ~ Ø315mm

##### Inserto

SDCN53
SDCN1504
SDKN1504
SDKR1504



### AE(M)4000/5000

#### ► 4000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

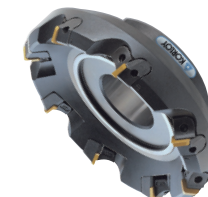
SECN1203
SEKN1203
SEKR1203

#### ► 5000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

SECN1504
SEKN1504
SEKR1504



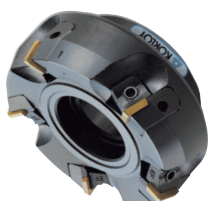
### EF(M)4000

#### ► 4000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

SFCN1203EFR
-------------



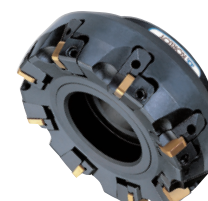
### EN(M)4000

#### ► 4000 Tipo

: Ø80 ~ Ø315mm

##### Inserto

SNCN1204ENN
SNKN1204ENN



## Mill-Max

### EPN(M)4000/5000+

#### ▶ 4000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

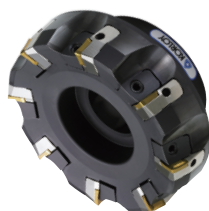
SPCN1203  
SPKN1203  
SPKR1203  
SPEX1203

#### ▶ 5000+ Tipo

: Ø80 ~ Ø315mm

#### Inserto

SPCN1504  
SPKN1504  
SPKR1504  
SPEX1504



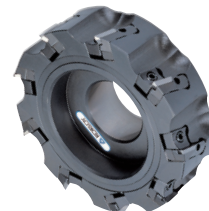
### PF(M)4000

#### ▶ 4000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

TFCN2203PFR  
TFCN2203PFL



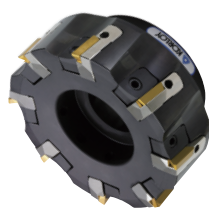
### PPN(M)4000

#### ▶ 4000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

TPCN2204  
TPKN2204  
TPKR2204



## Mill-Max Heavy

### HDDCM7000/9000

#### ▶ 7000 Tipo

: Ø125 ~ Ø315mm

#### Inserto

SCKN220715DDSR-MM

#### ▶ 9000 Tipo

: Ø125 ~ Ø315mm

#### Inserto

SCKN280920DDSR-MM



## Shave Mill

### SVM(M)4000

#### ▶ 4000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

SNEU120420-MF  
SNEU1204ANN-MF  
SNEU1204R-WMF  
SNEU1204-TBW



## Shave Mill Ultra

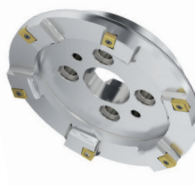
### SVUM6000

#### ▶ 6000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

LNCS1907-R3.0-WC  
LNCS1907-C1.5-WC



### SVUM6000-B

#### ▶ 6000 Tipo

: Ø80 ~ Ø315mm

#### Inserto

LNCS1907-R3.0-WC  
LNCS1907-C1.5-WC



## Cortador de alto avance

### ANH4000/5000

#### ▶ 4000 Tipo

: Ø100 ~ Ø450mm

#### Inserto

SNCN1204ENN  
SNKN1204ENN

#### ▶ 5000 Tipo

: Ø100 ~ Ø450mm

#### Inserto

SNCN 1504ENN  
SNKN 1504ENN



### CDH4000/5000

#### ▶ 4000 Tipo

: Ø100 ~ Ø450mm

#### Inserto

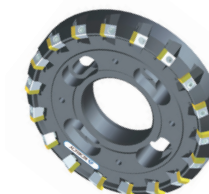
SDCN42R  
SDCN42L

#### ▶ 5000 Tipo

: Ø100 ~ Ø450mm

#### Inserto

SDCN53R  
SDCN53L



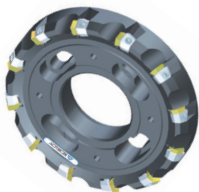
## » Cortador de alto avance

### DEH5000

Ø100 ~ Ø450mm

**Inserto**

HECN090408FN  
HECN090408SN  
HECN090408TN



### DPH5000

Ø100 ~ Ø450mm

**Inserto**

HPEN090408FN  
HPEN090408SN  
HPEN090408EN  
HPEN090408-WC

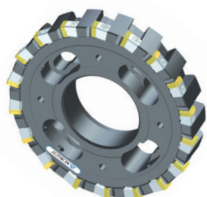


### PNH4000/5000

Ø125 ~ Ø450mm

**Inserto**

SNEF435

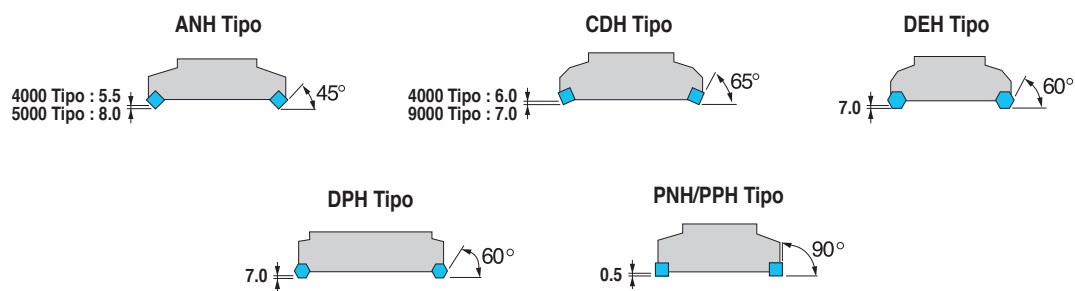
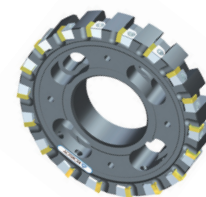


### PPH4000

Ø125 ~ Ø450mm

**Inserto**

SPEN120416-WC



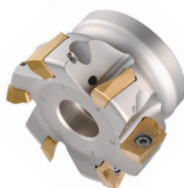
## Alpha Mill-X

### AMXCM

Ø40 ~ Ø80mm

#### Inserto

- ADKT170604PESR-MM
- ADKT170608PESR-MM
- ADKT170608PESR-ML
- ADKT170616PESR-ML
- ADKT170620PESR-ML



### AMXS

Ø20 ~ Ø40mm

#### Inserto

- ADKT170604PESR-MM
- ADKT170608PESR-MM
- ADKT170608PESR-ML
- ADKT170616PESR-ML
- ADKT170620PESR-ML



## Alpha Mill

### AMC(M)-S

1000S, 1500S, 2000S, 3000S(-K), 4000S

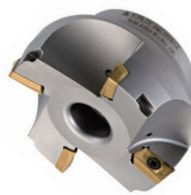
- ▶ **1000 Tipo**  
: Ø32 ~ Ø63mm
- ▶ **1500 Tipo**  
: Ø40 ~ Ø100mm
- ▶ **2000 Tipo**  
: Ø40 ~ Ø100mm
- ▶ **3000 Tipo**  
: Ø40 ~ Ø100mm
- ▶ **4000 Tipo**  
: Ø50 ~ Ø200mm



### AMC(M)-SE

1000SE, 2000SE, 3000SE

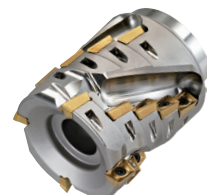
- ▶ **1000 Tipo**  
: Ø40 ~ Ø50mm
- ▶ **2000 Tipo**  
: Ø80 ~ Ø100mm
- ▶ **3000 Tipo**  
: Ø80 ~ Ø100mm



### AMC(M)-M

2000M, 3000M, 4000M

- ▶ **2000 Tipo**  
: Ø50 ~ Ø100mm
- ▶ **3000 Tipo**  
: Ø63 ~ Ø100mm
- ▶ **4000 Tipo**  
: Ø63 ~ Ø125mm



### AMS-S

1000S, 1500S, 2000S, 3000S, 3000S(-K), 4000S

- ▶ **1000 Tipo**  
: Ø10 ~ Ø33mm
- ▶ **1500 Tipo**  
: Ø10 ~ Ø40mm
- ▶ **2000 Tipo**  
: Ø10 ~ Ø63mm
- ▶ **3000 Tipo**  
: Ø25 ~ Ø63mm
- ▶ **4000 Tipo**  
: Ø20 ~ Ø63mm



### AMS-SE

1000SE, 2000SE, 3000SE

- ▶ **1000 Tipo**  
: Ø25mm
- ▶ **2000 Tipo**  
: Ø25 ~ Ø63mm
- ▶ **3000 Tipo**  
: Ø50 ~ Ø63mm



### AMS-M

1000M, 1500M, 2000M, 4000M

- ▶ **1000 Tipo**  
: Ø16 ~ Ø25mm
- ▶ **1500 Tipo**  
: Ø20 ~ Ø32mm
- ▶ **2000 Tipo**  
: Ø20 ~ Ø40mm
- ▶ **4000 Tipo**  
: Ø32 ~ Ø50mm



### AMS-MH

1000MH, 1500MH, 2000MH, 3000MH-K

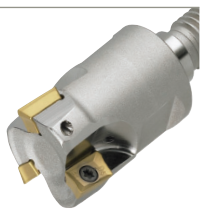
- ▶ **1000 Tipo**  
: Ø14 ~ Ø18mm
- ▶ **1500 Tipo**  
: Ø20mm
- ▶ **2000 Tipo**  
: Ø25 ~ Ø32mm
- ▶ **3000 Tipo**  
: Ø40mm



### AMM

1000M, 1500M, 2000M

- ▶ **1000 Tipo**  
: Ø12 ~ Ø32mm
- ▶ **1500 Tipo**  
: Ø10 ~ Ø32mm
- ▶ **2000 Tipo**  
: Ø16 ~ Ø40mm



• La información de adaptador está en la página 104

### BT Tooling system (singular)

AM1000HS, AM1500HS, AM2000HS, AM3000HS, AM4000HS

- ▶ **1000 Tipo**  
: Ø10 ~ Ø20mm
- ▶ **1500 Tipo**  
: Ø16 ~ Ø40mm
- ▶ **2000 Tipo**  
: Ø16 ~ Ø50mm
- ▶ **3000 Tipo**  
: Ø25 ~ Ø50mm
- ▶ **4000 Tipo**  
: Ø20 ~ Ø50mm



### BT Sistema de herramienta (Filo múltiple)

AM1000, AM1500, AM2000, AM3000, AM4000

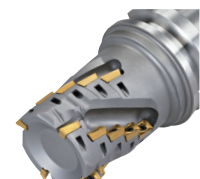
- ▶ **1000 Tipo**  
: Ø16 ~ Ø25mm
- ▶ **1500 Tipo**  
: Ø20 ~ Ø32mm
- ▶ **2000 Tipo**  
: Ø20 ~ Ø100mm
- ▶ **3000 Tipo**  
: Ø50 ~ Ø100mm
- ▶ **4000 Tipo**  
: Ø40 ~ Ø100mm



### HSK Tooling system (Filo singular)

AM1000HS, AM1500HS, AM2000HS, AM3000HS, AM4000HS

- ▶ **1000 Tipo**  
: Ø10 ~ Ø20mm
- ▶ **1500 Tipo**  
: Ø16 ~ Ø40mm
- ▶ **2000 Tipo**  
: Ø16 ~ Ø50mm
- ▶ **3000 Tipo**  
: Ø25 ~ Ø50mm
- ▶ **4000 Tipo**  
: Ø20 ~ Ø50mm



### HSK Tooling system (Filo múltiple)

AM1000, AM1500, AM2000, AM3000, AM4000

- ▶ **1000 Tipo**  
: Ø16 ~ Ø25mm
- ▶ **1500 Tipo**  
: Ø20 ~ Ø32mm
- ▶ **2000 Tipo**  
: Ø20 ~ Ø100mm
- ▶ **3000 Tipo**  
: Ø50 ~ Ø100mm
- ▶ **4000 Tipo**  
: Ø40 ~ Ø100mm



## » Have Mill

### HAVE (Filo múltiple)

Ø16 ~ Ø50mm

#### Inserto

XPMT0802ER-MM	XPMT2006ER-MM
XPMT1003ER-MM	XPMT2507ER-MM
XPMT13T3ER-MM	
XPMT1604ER-MM	
XPMT1805ER-MM	



### HAVE (Filo siglar)

Ø16 ~ Ø50mm

#### Inserto

XPMT0802ER-MM	XPMT2006ER-MM
XPMT1003ER-MM	XPMT2507ER-MM
XPMT13T3ER-MM	
XPMT1604ER-MM	
XPMT1805ER-MM	



## » Turbo Mill

### ADS4000/5000

#### ► 4000 Tipo

: Ø50 ~ Ø63mm

#### Inserto

SDCN42  
SDCN1203  
SDKN1203  
SDKR1203

#### ► 5000 Tipo

: Ø50 ~ Ø63mm

#### Inserto

SDCN53  
SDCN1504  
SDKN1504  
SDKR1504



### PES2000/3000/4000

#### ► 2000/3000/4000 Tipo

: Ø20 ~ Ø63mm

#### Inserto

TECN22R/TR	TEEN43R-G
TECN32R/TR	TEEN43TR-S20
TECN32TR-S20	TEEN43TR-Z
TEEN43R/TR	TEEN43TR-ZH

2000/3000 Tipo

4000 Tipo



## » Tank Mill

### THE

Ø25 ~ Ø50mm

#### Inserto

SPMT060304	APLT070304R
SDMT090308-MM	ADLT150308R
SPMT120408-MM	ZPMT1504PPSR-MM



## » T-Cutter

### TFE

Ø21 ~ Ø50mm

#### Inserto

CPMT060204-MM  
CPMT080308-MM  
CPMT09T308-MM  
CPMH120408-MM



## » Cortadores para chaflán

### CE (Interno & Fronta)

#### ► Ángulos de chaflán

15°, 30°, 45°, 60°

#### Inserto

SPMT110408-KC  
SPMN120308

15-1125R-S20	60-1125R-S32
30-1125R-S20	45-1207R-S32
45-1107R-S20	45-1220R-S32
45-1119R-S20	45-1225R-S32
45-1125R-S20	45-1235R-S32



### CE (Chaflán largo)

#### ► Ángulos de chaflán

30°, 45°, 60°

#### Inserto

XCET310404ER-KC

30-3105R-S32  
45-3105R-S32  
60-3105R-S32



### CE (Multifuncional)

#### ► Ángulos de chaflán

45°

#### Inserto

TWX16R-KC  
TWX22R-KC

45-1600R-S12  
45-1600R-S20  
45-1600R-L20  
45-2200R-S12  
45-2200R-S25  
45-2200R-L25



### CET

CET060-□□□  
CET090-□□□  
CET120-□□□



### CCT

CCT060-□□□  
CCT060T-□□□  
CCT060T-□□□L  
CCT090-□□□  
CCT090T-□□□  
CCT090T-□□□L  
CCT120-□□□  
CCT120T-□□□  
CCT120T-□□□L



# Fresas para aluminio

Grados / Rompevirutas

Insertos

Herramientas para torneado

Herramientas para fresado

Fresas integrales / Brocas

Comparación de rompevirutas, grados

## Pro-A Mill

### PAC(M)2000/4000

- ▶ **2000/4000 Tipo** : Ø40 ~ Ø100mm  
Inserto  
VCKT220530N-MA



### PAS2000/4000

- ▶ **2000 Tipo** : Ø12 ~ Ø42mm  
Inserto  
VDKT11T210N-MA  
VDKT11T220N-MA
- ▶ **4000 Tipo** : Ø32 ~ Ø40mm  
Inserto  
VCKT220530N-MA



### PAM2000

- ▶ **2000 Tipo** : Ø12 ~ Ø42mm  
Inserto  
VDKT11T210N-MA



• La información de adaptador está en la página 104

## Pro-X Mill

### PAXC(M)5000/6000

- ▶ **5000 Tipo** : Ø40 ~ Ø125mm  
Inserto  
XEKT19M5□□FR-MA  
XEKT19M5□□ER-ML
- ▶ **6000 Tipo** : Ø50 ~ Ø125mm  
Inserto  
XEKT2506□□FR-MA  
XEKT2506□□ER-ML



### PAXS5000/6000

- ▶ **5000 Tipo** : Ø20 ~ Ø40mm  
Inserto  
XEKT19M5□□FR-MA  
XEKT19M5□□ER-ML
- ▶ **6000 Tipo** : Ø25 ~ Ø40mm  
Inserto  
XEKT2506□□FR-MA  
XEKT2506□□ER-ML



### PAXM5000

- ▶ **5000 Tipo** : Ø25 ~ Ø40mm  
Inserto  
XEKT19M5□□FR-MA  
XEKT19M5□□ER-ML



• La información de adaptador está en la página 104

## Pro-L Mill

### PALCM

- Ø63mm  
Inserto  
LXET3405PEFR-63-MA/ML  
LXET3405□□PEFR-63-MA/ML



### PALS (Filo singular)

- Ø32, Ø40mm  
Inserto  
LXET2504PEER-□□-MA/ML  
LXET2504□□PEER-□□-MA/ML  
LXET2504PEFR-□□-MA/ML  
LXET2504□□PEFR-□□-MA/ML
- Ø50, Ø63mm  
Inserto  
LXET3405PEER-□□-MA/ML  
LXET3405□□PEER-□□-MA/ML  
LXET3405PEFR-□□-MA/ML  
LXET3405□□PEFR-□□-MA/ML



### PALS (Filo múltiple)

- Ø63mm  
Inserto  
LXET3405PEER-□□-MA/ML  
LXET3405□□PEER-□□-MA/ML  
LXET3405PEFR-□□-MA/ML  
LXET3405□□PEFR-□□-MA/ML



## Pro-XL Mill

### PXL(S)

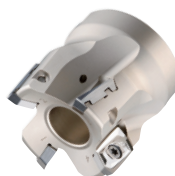
- Ø40 ~ Ø80mm  
Inserto  
LDET650540PPFR-MA  
LDET650550PPFR-MA



## Pro-V Mill

### PAVCM-XD19

- Ø40 ~ Ø125mm  
Inserto  
XDET1905□□PEFR-MA



### PAVS-XD19

- Ø25 ~ Ø40mm  
Inserto  
XDET1905□□PEFR-MA



### HSK-XD19

- Ø32 ~ Ø50mm  
Inserto  
XDET1905□□PEFR-MA





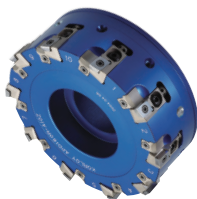
## » Aero Mill

### APD(M)-A

Ø80 ~ Ø315mm

#### Inserto

CDEW1204R/L-XCF  
CDEW1204R/L-XAF  
CDEW1204R-NAF  
CDEW1204R/L-XAW  
CDEW1204R-NAW



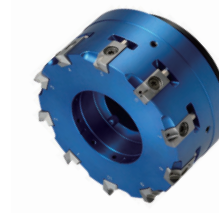
## » Aero Mill-Plus

### APD(M)-PB

Ø80 ~ Ø315mm

#### Inserto

BAMPR-XAF  
BAMPR-XAW  
BAMPR-XAWR



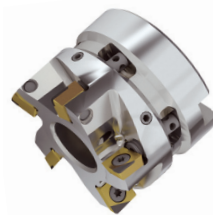
## » Aero Mill-Mini

### MAPD000HR/L-Z0

Ø40 ~ Ø63mm

#### Inserto

SNEW09T3ADFR  
SNEW09T3ADTR-XAF  
SNEW09T3ADTR-XAW  
SNEW09T3ADTR-NAF  
SNEW09T3ADTR-NAW



### MAPDS000HR/L-Z0

Ø32 ~ Ø40mm

#### Inserto

SNEW09T3ADFR  
SNEW09T3ADTR-XAF  
SNEW09T3ADTR-XAW  
SNEW09T3ADTR-NAF  
SNEW09T3ADTR-NAW



# Fresas para alto avance

## HRM/HRMDouble

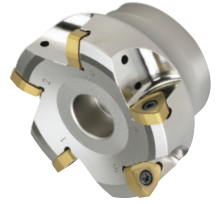
### HRMDC(M)09/13

- ▶ **09 Tipo**  
: Ø40 ~ Ø100mm  
**Inserto**  
WNMX09T316ZNN-MF/ML/MM
- ▶ **13 Tipo**  
: Ø50 ~ Ø125mm  
**Inserto**  
WNMX130520ZNN-MF/ML/MM



### HRMDC(M)16

- ▶ **16 Tipo**  
: Ø80 ~ Ø315mm  
**Inserto**  
WNMX160720ZNN-MF/ML/MM



### HRMDS06

- ▶ **06 Tipo**  
: Ø16 ~ Ø33mm  
**Inserto**  
WNMX060312ZNN-MF/ML/MM



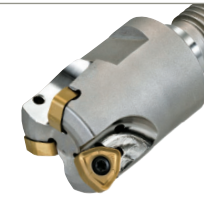
### HRMDS09/13

- ▶ **09 Tipo**  
: Ø25 ~ Ø50mm  
**Inserto**  
WNMX09T316ZNN-MF/ML/MM
- ▶ **13 Tipo**  
: Ø32 ~ Ø63mm  
**Inserto**  
WNMX130520ZNN-MF/ML/MM



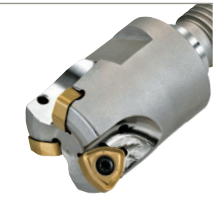
### HRMDM06

- ▶ **06 Tipo**  
: Ø16 ~ Ø33mm  
**Inserto**  
WNMX060312ZNN-MF/ML/MM



### HRMDM09/13

- ▶ **09 Tipo**  
: Ø25 ~ Ø40mm  
**Inserto**  
WNMX09T316ZNN-MF/ML/MM
- ▶ **13 Tipo**  
: Ø32 ~ Ø40mm  
**Inserto**  
WNMX130520ZNN-MF/ML/MM



• La información de adaptador está en la página 104

• La información de adaptador está en la página 104

### HRMC(M)13/15

- ▶ **13 Tipo**  
: Ø50 ~ Ø80mm  
**Inserto**  
WDKT130520ZDSR-MH
- ▶ **15 Tipo**  
: Ø63 ~ Ø160mm  
**Inserto**  
WDKT150625ZDSR-MH



### HRMS08/10

- ▶ **08 Tipo**  
: Ø20 ~ Ø21mm  
**Inserto**  
WDKT080316ZDSR-MH
- ▶ **10 Tipo**  
: Ø25 ~ Ø30mm  
**Inserto**  
WDKT10T320ZDSR-MH



### HRMS13/15

- ▶ **13 Tipo**  
: Ø32 ~ Ø40mm  
**Inserto**  
WDKT130520ZDSR-MH
- ▶ **15 Tipo**  
: Ø50 ~ Ø63mm  
**Inserto**  
WDKT150625ZDSR-MH



### HRMM08/10/13

- ▶ **08/10/13 Tipo**  
: Ø20 ~ Ø40mm  
**Inserto**  
WDKT080316ZDSR-MH  
WDKT10T320ZDSR-MH  
WDKT130520ZDSR-MH



• La información de adaptador está en la página 104

## » HFM (Fresa para alto avance)

### HFMS1000

► **1000 Tipo**  
: Ø15 ~ Ø21mm  
**Inserto**  
LPMT040210R-MF  
LPMT040220R-MF  
LPMW040210R  
LPMW040220R  
LPEW040210R  
LPEW040220R



### HFMM1000

► **1000 Tipo**  
: Ø8 ~ Ø33mm  
**Inserto**  
LPMT040210R-MF  
LPMT040220R-MF  
LPMW040210R  
LPMW040220R  
LPEW040210R  
LPEW040220R

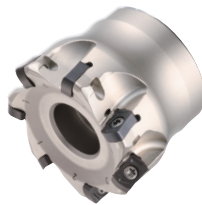


• La información de adaptador está en la página 104

## » HFMD (HFM doble para alto avance)

### HFMDCM-LN06

Ø32 ~ Ø66mm  
**Inserto**  
LNMX060310R-MF  
LNMX060310R-ML  
LNMX060310R-MM



### HFMDS-LN06

Ø16 ~ Ø40mm  
**Inserto**  
LNMX060310R-MF  
LNMX060310R-ML  
LNMX060310R-MM



### HFMDM-LN06

Ø16 ~ Ø42mm  
**Inserto**  
LNMX060310R-MF  
LNMX060310R-ML  
LNMX060310R-MM



## » Tipo tangencial (Cortador lateral entero)

### TAFCP(M)

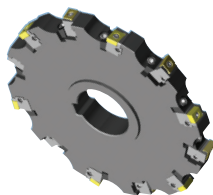
Ø100 ~ Ø315mm

**Inserto**

CNHQ1005-□□□

CNHQ1305-□□□

CNHQ1606-□□□



### TAFCB(M)

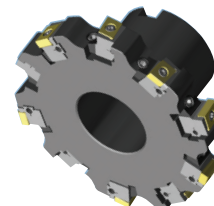
Ø100 ~ Ø315mm

**Inserto**

CNHQ1005-□□□

CNHQ1305-□□□

CNHQ1606-□□□



## » Tipo tangencial (Cortador lateral medio)

### TAHCP(M)

Ø100 ~ Ø315mm

**Inserto**

CNHQ1005-□□□

CNHQ1305-□□□

CNHQ1606-□□□



### TAHCB(M)

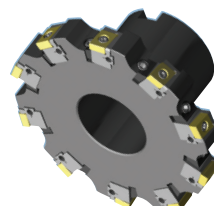
Ø100 ~ Ø315mm

**Inserto**

CNHQ1005-□□□

CNHQ1305-□□□

CNHQ1606-□□□



## » Tipo radial (Cortador lateral entero)

### RAFCP(M)

Ø100 ~ Ø315mm

**Inserto**

SDXT09M40□R/L

SDXT13050□R/L



### RAFCB(M)

Ø100 ~ Ø315mm

**Inserto**

SDXT09M40□R/L

SDXT13050□R/L



## » Tipo radial (Cortador lateral medio)

### RAHCP(M)

Ø100 ~ Ø315mm

**Inserto**

SDXT09M40□R/L

SDXT13050□R/L



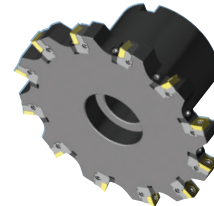
### RAHCB(M)

Ø100 ~ Ø315mm

**Inserto**

SDXT09M40□R/L

SDXT13050□R/L



## » Cortadores laterales

### SPP(M)

Ø80 ~ Ø200mm

**Inserto**

PNEJ12□□N



### SPB(M)

Ø80 ~ Ø200mm

**Inserto**

PNEJ12□□N



### SPS

Ø50 ~ Ø200mm

**Inserto**

SPFN200

SPFN300

SPFN400



## » Wind Mill

### RAHCP(M)

Tipo Boss

Ø80 ~ Ø250mm

**Inserto**

SNHT11023□□R/L-WX

SNHT1103□□R/L-WX

SNHT1203□□R/L-WX

SNHT12035□□R/L-WX

SNHT1204□□R/L-WX

SNHT12045□□R/L-WX

SNHT1205□R/L-WX

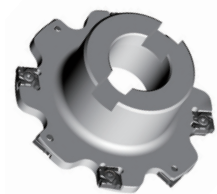
SNHT12054□R/L-WX

SNHT1206□□R/L-WX

SNHT12065□□R/L-WX

SNHT1207□□R/L-WX

SNHT12075□□R/L-WX



### RAHCB(M)

Tipo plano

Ø80 ~ Ø250mm

**Inserto**

SNHT11023□□R/L-WX

SNHT1103□□R/L-WX

SNHT1203□□R/L-WX

SNHT12035□□R/L-WX

SNHT1204□□R/L-WX

SNHT12045□□R/L-WX

SNHT1205□R/L-WX

SNHT12054□R/L-WX

SNHT1206□□R/L-WX

SNHT12065□□R/L-WX

SNHT1207□□R/L-WX

SNHT12075□□R/L-WX



# Fresas integrales / Brocas

KORLOY proporciona fresas y brocas enterizas de la mejor calidad gracias a una avanzada tecnología, y actualizadas, reflejando las exigencias del mercado. Todos nuestros productos garantizan una mayor productividad y una alta calidad de mecanizado.

- Fresas sólidas integrales (Endmills)
- Brocas sólidas
- Brocas indexables
- Endmills indexables

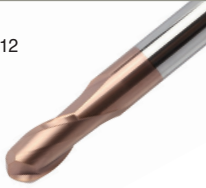


# Fresas integrales (Endmills)

## » H Endmill

### PBE2000 (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø0.5 ~ Ø12



### PRE4000 (Radio)

No. de flautas : 4  
Diámetro de corte : Ø3 ~ Ø12



## » V Endmill

### VFE4000 (Plano)

No. de flautas : 4  
Diámetro de corte : Ø2.5 ~ Ø16



## » Z Endmill

### ZFE2000 (Plano)

No. de flautas : 2  
Diámetro de corte : Ø1 ~ Ø16



### ZFE4000 (Plano)

No. de flautas : 4  
Diámetro de corte : Ø1 ~ Ø16



### ZSFE2000 (Plano corto)

No. de flautas : 2  
Diámetro de corte : Ø1 ~ Ø12



### ZSFE4000 (Plano corto)

No. de flautas : 4  
Diámetro de corte : Ø1 ~ Ø12



### ZBE2000 (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø1 ~ Ø12



## » F Endmill

### FME4000 (Estándar)

No. de flautas : 4  
Diámetro de corte : Ø6 ~ Ø12



### FMLE4000 (Largo)

No. de flautas : 4  
Diámetro de corte : Ø6 ~ Ø12



## » T Endmill

### TZBE (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø0.6 ~ Ø3



### TTBE (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø0.6 ~ Ø3



### TWBE (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø0.6 ~ Ø3



# Fresas integrales (Endmills)

## » D Endmill

### DFE2000 (Plano)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 12$



### DFE4000 (Plano)

No. de flautas : 4  
Diámetro de corte :  $\varnothing 2 \sim \varnothing 12$



### DBE2000 (Esférico)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 0.6 \sim \varnothing 12$



### DBE4000 (Esférico)

No. de flautas : 4  
Diámetro de corte :  $\varnothing 2 \sim \varnothing 12$



## » Endmills para Aluminio

### SSEA2000 (Plano)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### SSEA3000 (Plano)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 2 \sim \varnothing 16$



### SSBEA2000 (Esférico)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



## » C-Max

### CFE2000 (Plano)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 12$



### CFNE2000 (Plano de cuello largo)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 0.5 \sim \varnothing 4$



### CBE2000 (Esférico)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 12$



### CBNE2000 (Esférico de cuello largo)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 0.5 \sim \varnothing 4$



### CRE2000 (Radio)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 2 \sim \varnothing 12$



### CRNE2000 (Radio de cuello largo)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 4$





## » Super Endmill

### SRES4000

No. de flautas : 4  
Diámetro de corte :  $\varnothing 3 \sim \varnothing 20$



## » Composite Router Endmill

### CCDR4000

No. de flautas : 4  
Diámetro de corte :  $\varnothing 6 \sim \varnothing 8$



### CCDR6000

No. de flautas : 6  
Diámetro de corte :  $\varnothing 10 \sim \varnothing 12$



### CCHR4000

No. de flautas : 4  
Diámetro de corte :  $\varnothing 6 \sim \varnothing 8$



### CCHR6000

No. de flautas : 6  
Diámetro de corte :  $\varnothing 10 \sim \varnothing 12$



### CCR2000

No. de flautas : 2  
Diámetro de corte :  $\varnothing 4 \sim \varnothing 12$



### CCLR4000

No. de flautas : 4  
Diámetro de corte :  $\varnothing 4 \sim \varnothing 12$



### CCRR6000

No. de flautas : 6  
Diámetro de corte :  $\varnothing 6 \sim \varnothing 8$



### CCRR8000

No. de flautas : 8  
Diámetro de corte :  $\varnothing 10 \sim \varnothing 12$



## » I+ Endmill

### IPFE2000 (Plano)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### IPFE4000 (Plano)

No. de flautas : 4  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### IPLFE2000 (Plano Largo)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 6 \sim \varnothing 12$



# Fresas integrales (Endmills)

## » I+ Endmill

### IPLFE4000 (Plano Largo)

No. de flautas : 4  
Diámetro de corte : Ø6 ~ Ø12



### IPBE2000 (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø0.5 ~ Ø10



### IPBE4000 (Esférico)

No. de flautas : 4  
Diámetro de corte : Ø0.5 ~ Ø10



### IPLBE2000 (Largo esférico)

No. de flautas : 2  
Diámetro de corte : Ø0.5 ~ Ø8



### IPRE2000 (Radio)

No. de flautas : 2  
Diámetro de corte : Ø1 ~ Ø12



### IPRE4000 (Radio)

No. de flautas : 4  
Diámetro de corte : Ø2 ~ Ø12



### IPLRE2000 (Largo radio)

No. de flautas : 2  
Diámetro de corte : Ø3 ~ Ø12



### IPRE4000 (Largo radio)

No. de flautas : 4  
Diámetro de corte : Ø3 ~ Ø12



## » Z+ Endmill

### ZPFE2000 (Plano)

No. de flautas : 2  
Diámetro de corte : Ø1 ~ Ø20



### ZPSFE2000 (Plano corto)

No. de flautas : 2  
Diámetro de corte : Ø1 ~ Ø16



### ZPLFE2000 (Plano Largo)

No. de flautas : 2  
Diámetro de corte : Ø2 ~ Ø20



### ZPLFE2000 (Flauta larga)

No. de flautas : 2  
Diámetro de corte : Ø2 ~ Ø20



### ZPFE4000 (Plano)

No. de flautas : 4  
Diámetro de corte : Ø1 ~ Ø20



### ZPSFE4000 (Plano corto)

No. de flautas : 4  
Diámetro de corte : Ø1 ~ Ø16



## » Z<sup>+</sup> Endmill

### ZPLFE4000 (Plano Largo)

No. de flautas : 4  
Diámetro de corte : Ø2 ~ Ø20



### ZPLFE4000 (Flauta larga)

No. de flautas : 4  
Diámetro de corte : Ø1 ~ Ø20



### ZPFE3000 (Plano)

No. de flautas : 3  
Diámetro de corte : Ø2 ~ Ø25



### ZPFE6000 (Plano)

No. de flautas : 6  
Diámetro de corte : Ø6 ~ Ø20



### ZPBE2000 (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø0.8 ~ Ø20



### ZPLBE2000 (Largo esférico)

No. de flautas : 2  
Diámetro de corte : Ø2 ~ Ø12



### ZPBE4000 (Esférico)

No. de flautas : 4  
Diámetro de corte : Ø2 ~ Ø20



### ZPRE2000 (Radio)

No. de flautas : 2  
Diámetro de corte : Ø1 ~ Ø16



### ZPLRE2000 (Largo radio)

No. de flautas : 2  
Diámetro de corte : Ø6 ~ Ø16



### ZPRE4000 (Radio)

No. de flautas : 2  
Diámetro de corte : Ø1.5 ~ Ø16



### ZPLRE4000 (Largo radio)

No. de flautas : 4  
Diámetro de corte : Ø6 ~ Ø16



## » S<sup>+</sup> Endmill

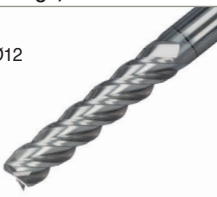
### SPFE4000 (Plano)

No. de flautas : 4  
Diámetro de corte : Ø1 ~ Ø12



### SPLFE4000 (Plano Largo)

No. de flautas : 4  
Diámetro de corte : Ø1 ~ Ø12



# Fresas integrales (Endmills)

## » R+ Endmill

### RPAE

Fresa en desbaste para Forma Wave de Al

No. de flautas : 3

Diámetro de corte :  $\varnothing 6 \sim \varnothing 25$



### RPE-FP-H

Fresa de desbaste estándar para mayor número de filo de corte

No. de flautas : 4

Diámetro de corte :  $\varnothing 5 \sim \varnothing 20$



### RPLE-FP-H

Fresa de desbaste de tipo largo para acabados

No. de flautas : 4

Diámetro de corte :  $\varnothing 5 \sim \varnothing 20$



### RPE-XG

Fresa para desbaste con capacidad de mecanizar en acabado

No. de flautas : 4

Diámetro de corte :  $\varnothing 6 \sim \varnothing 20$



### RPE-FP-L

Fresa de desbaste para mayor número de filo de corte

No. de flautas : 4

Diámetro de corte :  $\varnothing 5 \sim \varnothing 20$



### RPE-RG

Fresa de desbaste estándar

No. de flautas : 4

Diámetro de corte :  $\varnothing 5 \sim \varnothing 20$



### RPE-RG

Fresa de desbaste de 4 filos

No. de flautas : 4

Diámetro de corte :  $\varnothing 6 \sim \varnothing 20$



### RPE-FF

Fresa de desbaste para mayor número de filo de corte

No. de flautas : 4

Diámetro de corte :  $\varnothing 6 \sim \varnothing 20$



### RPE-FP

Fresa de desbaste para mayor número de filo de corte

No. de flautas : 4

Diámetro de corte :  $\varnothing 6 \sim \varnothing 20$



### RPE-RG

Fresa en desbaste

No. de flautas : 4

Diámetro de corte :  $\varnothing 6 \sim \varnothing 20$



## » A+ Endmill

### APFE2000 (Plano)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### APFE3000 (Plano)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### APMFE2000 (plano medio)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 3 \sim \varnothing 20$



### APMFE3000 (Plano medio)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 3 \sim \varnothing 20$



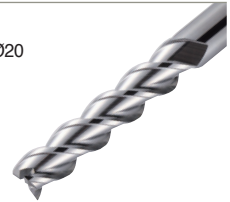
### APLFE2000 (Plano Largo)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 3 \sim \varnothing 20$



### APLFE3000 (Plano Largo)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 3 \sim \varnothing 20$



### APBE2000 (Esférico)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 12$



### AFE3000 (Plano corto)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### AFE3000 (Plano)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### AFE3000 (Plano Largo)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 1 \sim \varnothing 20$



### APRE3000 (Para desbaste)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 4 \sim \varnothing 25$



### RPAE3000 (Debaste de olas)

No. de flautas : 3  
Diámetro de corte :  $\varnothing 6 \sim \varnothing 25$



## » PCD Endmills

### PDE1000 (Plano)

No. de flautas : 1  
Diámetro de corte :  $\varnothing 4.6 \sim \varnothing 6$



### PDE2000 (Plano)

No. de flautas : 2  
Diámetro de corte :  $\varnothing 6.0 \sim \varnothing 12$



## » Endmills cementadas

### ZSE200 (Plano)

No. de flautas : 2  
Diámetro de corte : Ø14 ~ Ø50



### ZSE300 (Plano)

No. de flautas : 3  
Diámetro de corte : Ø14 ~ Ø50



### ZSE400 (Plano)

No. de flautas : 4  
Diámetro de corte : Ø14 ~ Ø50



### ZSE600 (Plano)

No. de flautas : 6  
Diámetro de corte : Ø34 ~ Ø50



### ZSEA200 (Plano)

No. de flautas : 2  
Diámetro de corte : Ø15 ~ Ø50



### ZSEL200 (Plano Largo)

No. de flautas : 2  
Diámetro de corte : Ø14 ~ Ø50



### ZSEL400 (Plano Largo)

No. de flautas : 4  
Diámetro de corte : Ø16 ~ Ø40



### ZSEXL200 (Plano Largo)

No. de flautas : 2  
Diámetro de corte : Ø20 ~ Ø25



### ZSBE200 (Esférico)

No. de flautas : 2  
Diámetro de corte : Ø13 ~ Ø50



# < Brocas sólidas >

## » Mach Solid Drill Plus

### MSDP

Proporción de de aspecto (L/D) : 3, 5, 7  
Diámetro de corte : Ø1 ~ Ø20

MSDP□□□-□P/M/K/N



### MSDPH

Tipo de refrigeración interna

Proporción de de aspecto (L/D) : 3, 5, 7  
Diámetro de corte : Ø2 ~ Ø20

MSDPH□□□-□P/M/K/N



## » Mach Solid Drills Plus-S

### MSDPH-S

Proporción de de aspecto (L/D) : 3, 5  
Diámetro de corte : Ø3 ~ Ø16

MSDPH□□□-□S



## » Mach Solid Drill Plus CFRP-C

### MSDP-C

Proporción de de aspecto (L/D) : 5  
Diámetro de corte : Ø3 ~ Ø12.7

MSDPH□□□-□5S



## » MSFD

### MSFD

Proporción de de aspecto (L/D) : 2  
Diámetro de corte : Ø2.5 ~ Ø16

MSDP□□□-□P/M/K/N



### MSFDH

Tipo de refrigeración interna

Proporción de de aspecto (L/D) : 3  
Diámetro de corte : Ø2.5 ~ Ø16

MSDPH□□□-□P/M/K/N

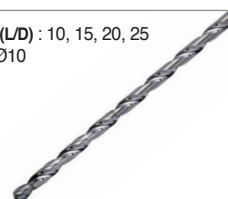


## » Mach Long Drills Plus

### MLDP

Proporción de de aspecto (L/D) : 10, 15, 20, 25  
Diámetro de corte : Ø3 ~ Ø10

MLD□□□□N-□□P/K/N



## » Vulcan Drills

### VZD

VZD-MA, MBA  
Diámetro de corte : Ø12.6 ~ Ø40.5



### VZD

VZD-LA, LBA  
Diámetro de corte : Ø12.6 ~ Ø40.5



## » ESD Plus

### ESDP

Proporción de de aspecto (L/D) : 3, 5, 7  
Diámetro de corte : Ø1 ~ Ø20

ESDP□□□-□P



## » SSD Plus

### SSDP

Proporción de de aspecto (L/D) :  
Diámetro de corte : Ø1 ~ Ø15

SSDP□□□



## King Drill

### King Drill (2D/3D/4D/5D)

Ø12 ~ Ø60.5mm

#### Inserto

Periférico	Central
SPMT040204-PD	XOMT040204-PD
SPMT050204-PD	XOMT050204-PD
SPMT060205-PD	XOMT060204-PD
SPMT07T208-PD	XOMT07T205-PD
SPMT090308-PD	XOMT090305-PD
SPMT11T308-PD	XOMT11T306-PD
SPMT130410-PD	XOMT130406-PD
SPMT15M510-PD	XOMT15M508-PD
SPMT180510-PD	XOMT180508-PD



### KING DRILL-HP (2D/3D/4D)

Ø13 ~ Ø29mm

#### Inserto

Periférico	Central
SPMT040204-PD	XOMT040204-PD
SPMT050204-PD	XOMT050204-PD
SPMT060205-PD	XOMT060204-PD
SPMT07T208-PD	XOMT07T205-PD
SPMT090308-PD	XOMT090305-PD



### King Drill

Para perforación con gran diametro

#### KING DRILL- Tipo cartucho

Ø61 ~ Ø100mm

#### Cartridge

Periférico	Central
KDC6165C KDC8085C	KDC6165P KDC8085P
KDC6570C KDC8590C	KDC6570P KDC8590P
KDC7075C KDC9095C	KDC7075P KDC9095P
KDC7580C KDC95100C	KDC7580P KDC95100P



### King Drill Inserto

	PD	LD	ND	RD
Periférico				
	SPMT-PD	SPMT-LD	SPET-ND	XOMT-RD
Central				
	XOMT-PD	XOMT-LD	XOET-ND	

## TPDB Plus

### TPDB Plus (3D/5D/8D/10D/12D)

Ø10 ~ Ø32.9mm

#### Inserto

TPD100B~TPD329B



## TPDB-H

### TPDB-H (3D/4D/8D)

Ø14 ~ Ø30.4mm

#### Inserto

TPD140B-H~TPD309B-H



## TPDC

### TPDC (3D/5D/8D/10D/12D)

Ø12 ~ Ø30.9mm

#### Inserto

TPDC1200CP, CM, CN  
~ TPDC3050CP, CM, CN



## WPDC

### WPDC (5D/6.5D/8D)

#### Tipo estándar

Ø25 ~ Ø40mm

#### Inserto

WC□T030204-C21  
WC□T040204-C21  
WC□T050308-C21



### WPDC (5D/6.5D/8D)

#### Tipo de cartucho de inserto singular

Ø41 ~ Ø59mm

#### Inserto

WC□T06T308-C21  
WC□T080408-C21



### WPDC (5D/6.5D/8D)

#### Tipo de cartucho de inserto doble

Ø60 ~ Ø80mm

#### WSP

WC□T050308-C21  
WC□T06T308-C21





# Endmills indexables

## Indexable Endmill

### BFE

Ø16 ~ Ø32

RC16  
RC20  
RC25  
RC30  
RC32



### BRE

Ø20 ~ Ø50

SDMT090308-MM ZDMT130416R-MM  
SPMT060304 ZPMT160520R-MM  
SPMT120408-MM ZPMT160525R-MM  
SPMT120508-MMN ZPMT160531.5R-MM  
ZDMT080310R-MM ZPMT160525R-MR  
ZDMT110312.5R-MM



### GBE

Filo sigilar : Ø16 ~ Ø50

Interior : M Exterior : S

ZPET080M(S)-MM ZPET140M(S)-MM  
ZPET090M(S)-MM ZPET150M(S)-MM  
ZPET100M(S)-MM ZPET160M(S)-MM  
ZPET110M(S)-MM ZPET200M(S)-MM  
ZPET125M(S)-MM ZPET250M(S)-MM  
ZPET130M(S)-MM



### GBE-M

Filo múltiple : Ø20 ~ Ø50mm

Interior : M Exterior : S

ZPET100M(S)-MM ZPET150M(S)-MM  
ZPET110M(S)-MM ZPET160M(S)-MM  
ZPET125M(S)-MM ZPET200M(S)-MM  
ZPET130M(S)-MM ZPET250M(S)-MM  
ZPET140M(S)-MM

Ext. Principal :

SPMT060304 SPMT120408-MM  
SDMT090308-MM



### GBEM

Ø16 ~ Ø32mm

Interior : M Exterior : S

ZPET080M(S)-MM  
ZPET100M(S)-MM  
ZPET125M(S)-MM  
ZPET150M(S)-MM  
ZPET160M(S)-MM



## Laser Mill

### LBE (08/10/12/16/20/25/30/32)

Tipo esférico R, Mango de carburo (Tipo recto)

LBE080080S-S08C	LBE120100S-S12C	LBE200120S-S20C	LBE300140S-S32C
LBE080100S-S08C	LBE120150S-S12C	LBE200170S-S20C	LBE300170S-S32C
LBE080020S-S08C-130	LBE120025S-S12C-150	LBE200035S-S20C-190	LBE300050S-S32C-230
LBE080020S-S08C-150	LBE120025S-S12C-200	LBE200035S-S20C-240	LBE300050S-S32C-260
LBE100080S-S10C	LBE160100S-S16C	LBE250140S-S25C	LBE320140S-S32C
LBE100120S-S10C	LBE160150S-S16C	LBE250170S-S25C	LBE320170S-S32C
LBE100023S-S10C-130	LBE160030S-S16C-160	LBE250040S-S25C-220	LBE320050S-S32C-230
LBE100023S-S10C-170	LBE160030S-S16C-210	LBE250040S-S25C-250	LBE320050S-S32C-260



### LBE (08/10/12/16/20/25/30/32)

Tipo esférico R, Manco de acero (Tipo cónico)

LBE080035T-S12	LBE160100T-S20
LBE080055T-S12	LBE200075T-S20
LBE080075T-S12	LBE200115T-S25
LBE100035T-S12	LBE250090T-S25
LBE100055T-S12	LBE250135T-S32
LBE100075T-S12	LBE300105T-S32
LBE120055T-S12	LBE300160T-S32
LBE120085T-S16	LBE320105T-S32
LBE160065T-S16	LBE320160T-S32



### LBE (12/16/20/25/30/32)

Tipo esférico R, Manco de acero (Tipo recto)

LBE120035S-S12	LBE250045S-S25
LBE160035S-S16	LBE300055S-S32
LBE200040S-S20	LBE320055S-S32



## » Laser Mill

### LRE (10/12/16/20/25/30/32)

#### Tipo radio R , Mango de carburo (Tipo recto)

LRE100080S-S10C	LRE120025S-S12C-200	LRE200035S-S20C-190	LRE300170S-S32C
LRE100120S-S10C	LRE160100S-S16C	LRE200035S-S20C-240	LRE300050S-S32C-230
LRE100023S-S10C-130	LRE160150S-S16C	LRE250140S-S25C	LRE300050S-S32C-260
LRE100023S-S10C-170	LRE160030S-S16C-160	LRE250170S-S25C	LRE320140S-S32C
LRE120100S-S12C	LRE160030S-S16C-210	LRE250040S-S25C-220	LRE320170S-S32C
LRE120150S-S12C	LRE200120S-S20C	LRE250040S-S25C-250	LRE320050S-S32C-230
LRE120025S-S12C-150	LRE200170S-S20C	LRE300140S-S32C	LRE320050S-S32C-260



### LRE (10/12)

#### Tipo esférico R, Manco de acero (Tipo cónico)

LRE100025T-S12  
LRE100050T-S12  
LRE120060T-S16



### LRE (12/16/25/30/32)

#### Tipo radio R , Mango de carburo (Tipo recto)

LRE120030S-S12  
LRE160050S-S16  
LRE160060S-S16  
LRE200060S-S20  
LRE200080S-S20  
LRE250070S-S25  
LRE250100S-S25  
LRE300070S-S32  
LRE300100S-S32  
LRE320080S-S32  
LRE320100S-S32



### LBE-MHD

LBE100-MHD-M06  
LBE120-MHD-M06  
LBE160-MHD-M08  
LBE200-MHD-M10  
LBE250-MHD-M12  
LBE300-MHD-M16  
LBE320-MHD-M16



• La información de adaptador está en la página 104

## » Adaptador de zanco para cabeza modular

### MAT (Zanco de acero)

#### Disponible

(FMRM, LBE, PAM, PAXM, AMM, RM3PM, RM4PM, RM4ZM, RM6PM, HFMDM, HFMM, HRMM, HRMDM, GBEM)

MAT-M06-020-S10S	MAT-M10-050-S20T
MAT-M6B-020-S12S	MAT-M10-070-S20T
MAT-M6B-040-S12S	MAT-M10-090-S25T
MAT-M08-020-S16S	MAT-M10-110-S25T
MAT-M10-030-S20S	MAT-M10-130-S32T
MAT-M12-030-S25S	MAT-M12-050-S25T
MAT-M16-035-S32S	MAT-M12-070-S25T
MAT-M06-040-S12T	MAT-M12-090-S25T
MAT-M06-065-S16T	MAT-M12-110-S32T
MAT-M6B-065-S16T	MAT-M12-175-S40T
MAT-M6B-080-S16T	MAT-M16-055-S32T
MAT-M08-040-S16T	MAT-M16-080-S32T
MAT-M08-065-S16T	MAT-M16-120-S32T
MAT-M08-080-S20T	MAT-M16-175-S40T
MAT-M08-110-S25T	



### MAT-C (Zanco de carburo cementado)

#### Disponible

(FMRM, LBE, PAM, PAXM, AMM, RM3PM, RM4PM, RM4ZM, RM6PM, HFMDM, HFMM, HRMM, HRMDM, GBEM)

MAT-M06-030-S10S-C-80	MAT-M10-010-S20S-C-170
MAT-M06-050-S10S-C-100	MAT-M10-010-S20S-C-200
MAT-M06-080-S10S-C-130	MAT-M10-010-S20S-C-300
MAT-M6B-030-S12S-C-80	MAT-M12-090-S25S-C
MAT-M6B-050-S12S-C-100	MAT-M12-110-S25S-C
MAT-M6B-080-S12S-C-130	MAT-M12-175-S25S-C
MAT-M08-080-S16S-C	MAT-M12-015-S25S-C-170
MAT-M08-110-S16S-C	MAT-M12-015-S25S-C-200
MAT-M08-150-S16S-C	MAT-M12-015-S25S-C-300
MAT-M08-010-S16S-C-150	MAT-M16-090-S32S-C
MAT-M08-010-S16S-C-180	MAT-M16-120-S32S-C
MAT-M08-010-S16S-C-250	MAT-M16-175-S32S-C
MAT-M10-090-S20S-C	MAT-M16-020-S32S-C-180
MAT-M10-110-S20S-C	MAT-M16-020-S32S-C-210
MAT-M10-175-S20S-C	MAT-M16-020-S32S-C-300



# Comparación de rompevirutas

## Comparación de rompevirutas

Aplicación		KORLOY	KYOCERA	TAEGUTEC	SUMITOMO	SANDVIK	KENNAMETAL	ISCAR	WLATER	mitsubishi	SECO	TUNGALOY		
Negativo	P	Ultra acabado	-	DP (G)	-	FA	PMC	FF (G)	SF	-	PK (G), FY	FF1	TF	
			VL	GP	FA	FL, FB	QF	UF	PF	NF3	FH, FS, SY	FF2	NS, ZF	
		Acabado	VF	PP	FG	LU, FE	PF, XF	FN	NF, SM	NF4	FP		NM, NS, SS	
			VB	-	SF	SU	61	K	F3P	FP5	LP, SH, SA	MF2	TS, TSF	
		Medio a acabado	VQ, VC	HQ, CQ	MC	SE	HM	LF, CT	TF	NS6	C (Cermet)		AS	
			LP	PQ, CJ	FC	SX	PMC	-	-	MP3	MV	MF5	ZM, AM	
	Maquinado Medio	VM, HM	HK, GS, HS, PS	MP, MT	GU (UG)	QM, SM	MP, MN	PP, TF	NM4, NP5	MA, MH	M3, M5	TQ, TM		
		MP	PG	PC	GE, UX	PM, XM	-	M3P	MP5	MP	-	DM, None C/B		
	Desbaste	B25												
		GR	PT, GT, HT, PH	RT	MU, ME, MX	PR, WR	RN, None C/B	R3P	RP5, NM9	GH, RP	MR5, MR6, MR7	M5	THS	
Maquinado Pesado	GH	PX	HB, RH, RX	HG, MP	PR, XMR	RH	NR, HT	RP7, NR4, NRF	HZ	R4, R5	CH			
	VH	-	HZ, EH	HP	QR	RM	HR	NRR, NR8	HX	R6, R7, R8, PR6	THS, TRS			
		VT	-	HT, HY, HD	HU, HW, HF	HR	MM	T3P	HV	PR9, R56, R57, R68	65, TUS			
Acero bajo en carbono	Acero Suave	VL	XF, XP, XP-T	SF	FL	LC	-	-	-	FY	-	-		
		-	XQ, XS	-	-	-	-	-	-	SY	-	-		
Alto avance	Corte de alto avance	VW	WP, WF	WS	LUW, SEW	WF, WL	FW	WF	NF	SW	FF2, MF2	AFW, FW		
		LW	WQ, WE	WT	GUW	WM, WMX	MW	WG	NM	MW	MF5, M3	ASW, SW		
		-	-	-	-	WR	RW	-	-	-	R4, R7	-		
Aplicación	Eje (Barra larga)	SH	CJ, ST	FS, VF, FX	HM	K	-	-	-	ES	UX	P, S		
		KNUX-	KNMX-	KNUX-	-	KNUX-71	-	-	-	KNMX-19	-	KNMX		
M	Acero Inoxidable	Acabado	VP2, MP	MQ, GU, SK	EA, SF	SU, EF	MF, XF	FP, FF	SF, VL, F3M	NF4, FM5	SH, LM	FF1, MF1	SS, SF, SA	
		Medio a acabado	MM	HU, TK, MS	MP, EM	EX, EG, GU	MM, XM, QM, MMC	MP, UP, MS	PP, TF, M3M	NM4, NR4	MS, GM, MM	MF3, MF4	SM	
		Para desbaste	RM	MU	ET	MU, HM, EM	MR, XMR, MRR	RP, P	MR, R3M	RM5, NRS	MA, ES	MF5, M5	S, SH	
K	Fundición	Acabado	MP	None C/B, C, KQ	MT	UZ	KF, PMC, XF	T-20, FN	TF	NM, MK5	LK, MA	M4	CF	
		Medio a acabado	B25, MK	ZS, KG	RT, KT	UX, GZ	KM, XM	UN, RP	GN	NM5, RK5	MK, GK, None C/B	M5	CM, Sin rompevirutas	
		Para desbaste	-MA, RK	-MA, GC, KH	-MA	-MA	KR, XMR, KRR	MR, S-20, -MA	-MA, NR	-MA, RK7	RK, -MA	MR7	CH	
S	HRSA	Ultra acabado	VP1	MQ, SK	EA	EF	SF, SGF	FS (G) LF (G)	SF, PF	NF4	FJ(G)	M1	SF	
		Acabado	VP2	TK	ML	UP, EG	23.SR, XF, SMC	UP	PP	NFT	LS	MF1	HMM	
		Medio a acabado	VP3	MS	EM	EX	SM, SMR, XM	MS, GP, P, UN	TF	NMS, NMT	MS	MF4, MR3	HRF	
		Para desbaste	VP4	MU	ET	MU	XMR	RP	MR	NRS, NRT	RS, GJ	MR4	HRM	
N	Aluminio	HA	AH	ML	AX	23	GP, MS	NF, PP	FN2, PF2, MN2, PM2	MJ	MF1	P		
Positivo	P	Acabado	VL	XP, PP	FA, FX	FC	PF, XF	11	PF	FP4	SMG (G), FV	FF1	O1	
			VF	GP	-	FB, LU (FP, FK)	UF	UF	F3P	FK6	SV, FP	F1	PSF, PF	
		Medio a acabado	HMP	XQ	FG	LB, NF	PM, XM	LF, FP	14	MP4, FM2, FM4, MK4	LP	MF2	PSS	
			MP	HQ, GK	PC, FM	SU, SC	UM, PMC	MP, T-20	SM	FP6, MM4, FM6, RK4	MV	F2, M3	PS	
	Para desbaste	C25	None C/B	MT	MU	PR, UR, XR	MF, GM, -C	19	RP4, RM4, RK6	None C/B, MP	M5	PM		
	Wiper	-	WP	-	LUW	WL, WF	FW	WF	PM	SW	-	-		
		-	-	WT	SDW	WM, WMX	MW	WG	-	MW	-	-		
	M	M,S Acero Inoxidable For HRSA	Acabado	VP1	CF, GF, GQ	FG	FC, FM	MF, MM, MMC	11, UF, LF	PF	FM4, NM4	FJ (G), FM, LM	F1, MF2	PSF, PSS
			Medio a acabado	VL	MQ, MF	SA	LB, SI	MR, XR, SMC	MF	SM, M3M	RM4	MM, None C/B	M3, M5	PS, PM
	K	Fundición	Medio a acabado	MP	HQ	PC	MU	KF, KM	LF	17	FK6	MK	M3	CM
Para desbaste			C25	GK	MT	None C/B	KR	MF, UF	19	MK4, RK6	None C/B, -MW	M5	None C/B	
N	Aluminio	AK, AR	AH	FL	AW, AG, AY	AL	HP, LF	AS, AF	PM2	AZ, FS	AL	AL		
	Torneado de alta precisión (La clase de tolerancia G&E)	KF, KM	FSF, USF, J, A3	GF, FF, GW	FY, FX, FZ	K, F, UM	GH	LF, RF, XL	-	F, SR, SS, SM	UX	JS, J10, JRP, JPP		

# ◀ Comparación de grados para torneado ▶

## ⊗ WC

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Torneado	P	ST10	ST10P		S1P			TX10S	ST10T	SRN5	S1F		P10		
		ST20	ST20E		SM30			TX20	ST120T	WS20B			P20		
		ST30A	A30	PW30	IC50M	S30T	TTX	K45	TX30	UT120T	EX35	VC6		P30	
		ST40E		IC54	S6	TTR	K420	TX40		EX40	VC5		P40		
		U10E								EX45	VC56				
	M	U20	U2		H13A	AT10	K2885	TU10	UT120T	WAM10B			M10		
		A30	A40		H10F	AT15	K2S	TU20		EX35	VC27		M20		
		A40				TTR		TU40			VC28		M40		
Torneado	K	H01	H1		H1P	THM	K68	TH03	HT10T	WH05	VC3		K10		
		H05			H10F	THR	K8735	TH10	HT120T	W10	VC2		K20		
		G10	G10E	KW10H	IC20			KS20		WH20	VC1		K20M		
			IC28									K30			

## ⊗ Recubrimiento CVD

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Torneado	P	AC805P	CA5505		GC4305	TP0500	KCP05	T9105	UE6105				TT8105		
		AC810P	CA510		GC4205	TP0501	KCP05B								
		AC700G	CA515	IC8150	GC4315	TP1500		T9115	UE6110	HG8010	VP5515	WPP10S	TT8110		
		AC900G	VP5115		GC4215	TP1501	KCP10B		MY5015			WKP13S	LC215P		
		AC820P	CA525		GC4325	TP2500	KCP25	T9125	MC6025	HG8025	VP5525	WPP20S	TT8120	CP5	JC110V
	AC2000	VP5125	IC8250	GC4225	TP2501	KCP25B		UE6020			WKP23S	LC225P		JC215V	
	AC8025P	CA525		GC425	TGP25							TT8125			
	NC3325*	CA530	IC8350	GC4335	TP3500	KCP30	T9135	MC6035	GM8035	VP5535	WPP30S	TT5100		JC325V	
	NC3120	CA530		GC4235	TGP45	KCP30B		UE6035			WKP33S	TT8135		JC450	
	NC3030	CA530		GC4235								TT7100			
NC5330	CA530							UH6400							
Torneado	M	NC9115*	CA610M	IC6015	S05F	TM2000	KCM15	T6120	MC7015	GM25	VP8515	WAM10	TT9215		
		NC9125*	CA6515	IC6025	GC2015	GC2220	KCM15M	KCM25	MC7025		WMP20S	WAM20	TT9225		
	NC9135*	CA6525		GC2025	GC2025	KCM25B	KCM35	US7020	GX30	WAM30	WAM30	TT9235			
		CA6525				TM4000	KCM35B	US735							
Torneado	K	NC6310*	AC405K	IC5005	GC3205	TK1001	KCK05	T5105	MC5005	HG3505	VP1505	WKK10S	TT7005	CP2	
		NC6315	CA4010		GC3210	TK2001	KCK15	T5115	UC5105	HG3515	VP1510	WKK20S	TT7505	CP5	
			CA4515	IC5015	GC3215	TGK1500	KCK15B		UC5115		VP1515	WAK30	TT7015	JC110V	
	CA4115		GC3225								TT6300		JC215V		
	AC420K		CA4120				KCK20	T5125							

## ⊗ Recubrimiento PVD

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Torneado	P	PC8105*			IC507			AH710			VC907				
		PC8110		PR1005	IC808	CP200	KU10T	GH730			VC927				JC5003
				PR915	IC830	CP250	KU25T		AH330	IP2000	VC905	WTA43			JC5015
			PR1115	IC908				AH740	IP3000		WTA41		TT5030		
			PR930	IC3028	GC1025			AH120							
			PR1025	IC830	GC1025	GC4125	CP500	GH330	VP15TF	IP3000					
			PR630					AH330	VP20MF						
			PR660	IC330	GC4125			AH330	VP20MF						
				IC330	GC2035			AH330	VP20MF						
				IC330	GC2035			AH645	VP7035					TT8020	
Torneado	K	PC5300	EH510Z	IC5100	IC810	CP200		AH110		CY110H	VC929		TT5030		
			EH520Z	IC810	IC220	CP250		GH110			VC903				
				IC908	IC228	CP500		AH120			VC902				
			IC228							VC901					
										VC907					
Torneado	S	PC8105	AC510U	IC808	GC1105	TS2000	KC5010	AH110	VP05RT			WSM10	TT5030		
		PC8110	AC520U	IC907	GC1025	CP500	TS2500	KC5025	VP10RT			WSM20			
		PC5300	AC530U	IC328	GC2035	GC1105	GC1025	GC2035	VP15TF			WSM30			
	PC5400*							MP7035							

## ⊗ Cermet

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Torneado	P	CC1500*	T110A	PV30*	IC20N	CT5015	HT2	NS520	NX2525	CH350			PV3010*	T3N	LN10
		CN1500*	T2000Z*	TN30	IC520N		CM	KT125	NS530	NX3035	CZ25*			CT3000	T15
	CC2500*	T1500A	PV7020*	IC30N	CT525	TP1020	HT5	NS530	UP35N*	CH530	VC83	WTA43*		N20	CX75
	CN2000	T3000Z*	TN60	IC530N	GC1525*	TP1030*	KT175	NS9530	AP25N*	CH550		WTA41*		C30	CX90
		TN90				KT195M	KT195M	GT9530*	CH570				N40	CX99	
		PV90*						NS540							
								NS730							
Torneado	K	CN1500*	T110A										CT3000	T15	LN10
		CN2500*													CX75

★ : Cermet Recubierto ★ : Grado Nuevo

# Comparación de grados para fresado

## Ⓢ Recubrimiento CVD

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET	
Fresado	P	NC5330	ACP100		IC5100 IC5400	GC4210 GC4220 GC4230			FH7020 F7030			WKP25S WKP35S WKP35G	TT8515 TT7800			
		NCM325 NCM535★					MP1500 MS2500 MP2500 MS2500 T350M MM4500	KCPM20 KCMP30 KC927M	T3130		SM245					
		NCM335 NCM545★														
	M	NC5330 NC5340★					MP2500 MM4500		T3130	F7030						
		NC5350★	ACP400			GC2040										
	K	NC5330 NCM535★ NCM545★	ACK200		IC5100		MK1500 MK2000 MS2500 T350M MK3000	KC907M KCK15 KC914M KCPK30 KC917M KC924M	T1115 T1015	MC5020			WAK15 WKK25 WKP25S WKP35S WKP35G	TT7515 TT6800		

## Ⓢ Recubrimiento PVD

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET	
Fresado	P	PC2005★ PC2010★ PC2015★				P20A				ATH80D PCA08M ACS05E PCA12M PC20M						
		PC2505★ PC2510★				GC1010			AP20M GP20M	JX1005 TB6005 JX1020 CY9020		WKP25	TT2510		DH102	
		PC3600 PC3700★	ACZ310	PR730	IC903 IC908 IC950		MP3000 F25M F30M	KC522M KUC20M	GH330	MP6120	TB6045	VC935	WKP25	TT7070 TT7080 TT7030		JC5003 JC5015
		PC210F	ACZ330	PR830 PR630	IC1008	GC1025 GC1030		KC525M KUC30M	AH120	VP15TF UP20M	CY250 PTH30E				QM3 ZM3	JC5030 JC5040
		PC5300 PC5400★	ACP300 ACZ350					KC935M KC7140 KC720	AH3135	VP30RT	JP4160 JM4160 PTH40H		WKP35 WKP45	TT8020		
				PR660	IC928	GC1030	F40M T60M									
	M	PC210F PC5300	ACM100 ACP200	PR730	IC903			KC5510 KC7020	AH120		JX1020 CY9020 JX1015 TB6020 CY250		VC928 VC902 VC901	TT9030	QM3 ZM3	JC5003 JC5015
		PC9530	ACM300 ACP300 ACZ350	PR1025 PR630 PR660 PR1535	IC900 IC250 IC928	GC1025 GC2030 GC1030	F25M F30M F40M	KC522M KC725M KC735M KC7030	AH140 AH3135	MP7130	JX1045 TB6045		WOM35 WSM35S WSP45 WSM45S	TT9080 TT8020		JC5030 JC5040
		PC5400★		PR660	IC328			KC722		MP7140	JX1060 TB6060					
	K	PC9540★ PC6510		PR510 PR905	DT7150 IC900 IC910 IC950 IC350		MK2050	KC510M KC915M KC520M		VP10MF VP15TF VP20RT		VC903 VC928 VC902 VC901		TT6290 TT6030 TT6060		JC5003 JC5015
		PC5300 PC5400★ PC9540★	AC520U	PR620 PR660 PR1535	IC328 IC408	GC1025 GC1040 S40T	F40M MS2050	KC510M KCU30M		VP15TF VP30RT MP9130	ACS05E		WSM35S WSM45S	TT9030 TT8020 TT8080		

## Ⓢ Cermet

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Fresado	P	CN2000	TN100M					NS540 NS740	NX2525 NX4545	CH550 CH570			CT3000 CT7000	C50	
		CN30	T250A TC60M	IC30N			KT195M								
	M		T250A			CT530									
K								NX2525							

★ : Cermet Recubierto    ★ : Grado Nuevo

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