



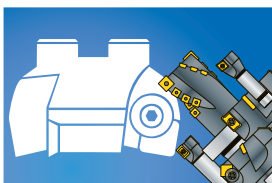
SISTEMAS
& servicios

TORNEADO



1

FRESADO

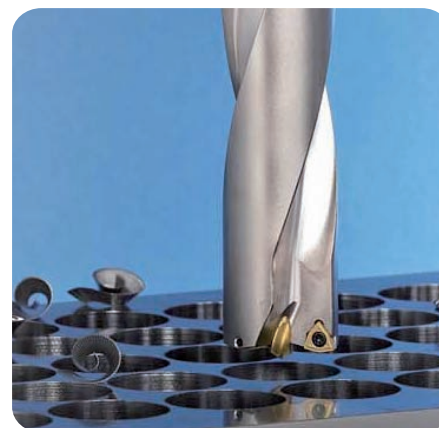
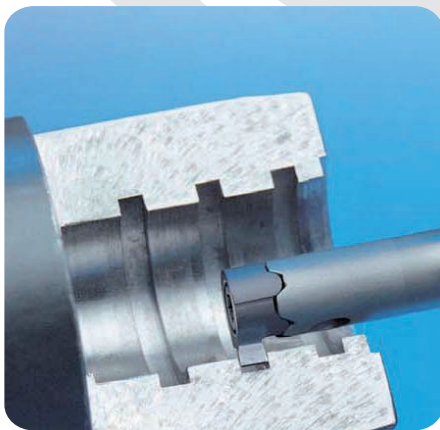


2

PERFORADO



3



SOLUCIONES PRODUCTIVAS ECONÓMICAS

HERRAMIENTAS
STANDARD

PLACAS DE METAL DURO STD

AB 

6	x 4 x 2
8	x 5 x 3
10	x 6 x 4
12	x 8 x 4
16	x 10 x 5
20	x 12 x 6
25	x 14 x 8
32	x 20 x 10

C 

6	x 4 x 2
8	x 5 x 3
10	x 6 x 4
12	x 8 x 3
16	x 10 x 5
20	x 12 x 6
25	x 16 x 8
32	x 20 x 10

CL 

10	x 10 x 4
12	x 12 x 4
14	x 14 x 5
15	x 15 x 5
16	x 15 x 6
18	x 18 x 6
22	x 20 x 7
25	x 20 x 8

D 

3	x 7 x 3
4	x 6 x 3
5	x 8 x 4
6	x 10 x 5
8	x 12 x 6
10	x 16 x 8
12	x 20 x 10
16	x 25 x 12

DL 

3	x 10 x 3
4	x 12 x 4
5	x 15 x 5
6	x 16 x 6
7	x 18 x 6
8	x 20 x 7
9	x 20 x 7
10	x 20 x 7

E 

8	x 12 x 4
10	x 14 x 4
12	x 17 x 5
16	x 20 x 6
20	x 24 x 6
25	x 28 x 8
30	x 34 x 10

F 

8	x 4 x 3
10	x 5 x 3
12	x 6 x 3
14	x 5 x 2,5
16	x 8 x 4
18	x 8 x 4
20	x 10 x 5
25	x 12 x 6

FL 

20	x 6 x 4
25	x 6 x 5
30	x 8 x 6
32	x 8 x 6
35	x 8 x 6

G 

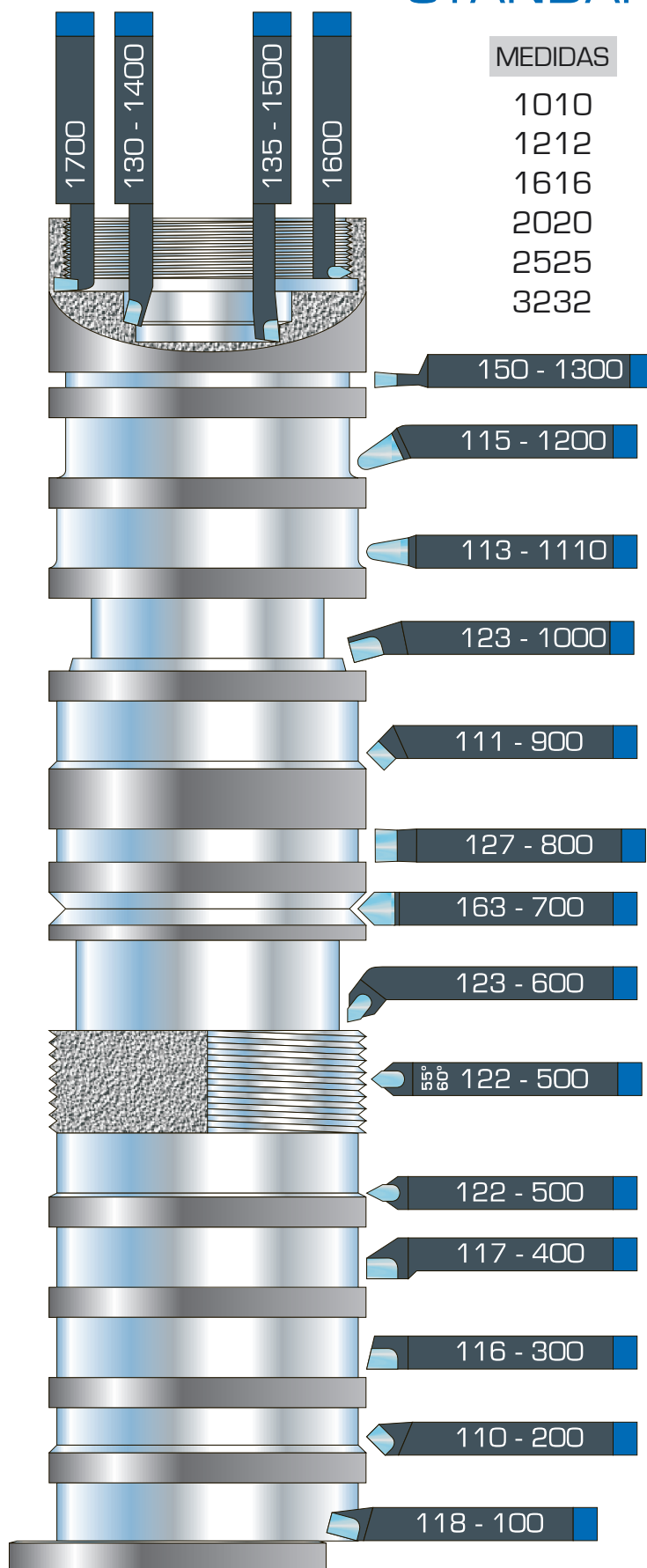
8	x 9 x 1,5
10	x 12 x 4
12	x 15 x 4
16	x 18 x 5
20	x 20 x 7
25	x 25 x 8
32	x 30 x 9
40	x 35 x 10

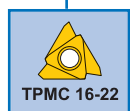
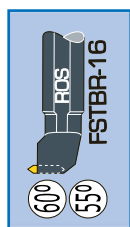
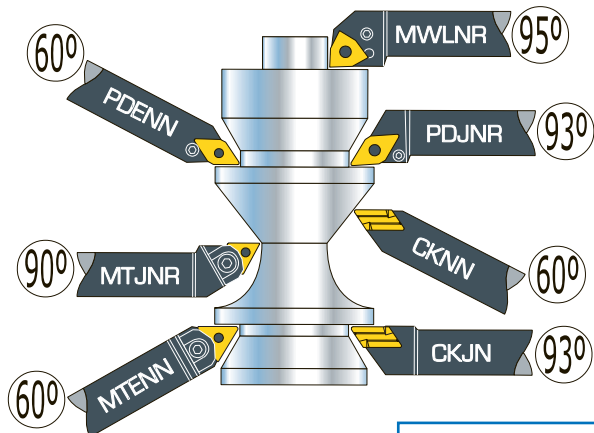
K 

5	x 12
6	x 12
7	x 14
8	x 16
11	x 20
12	x 22
14	x 22
16	x 28

MEDIDAS

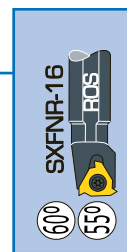
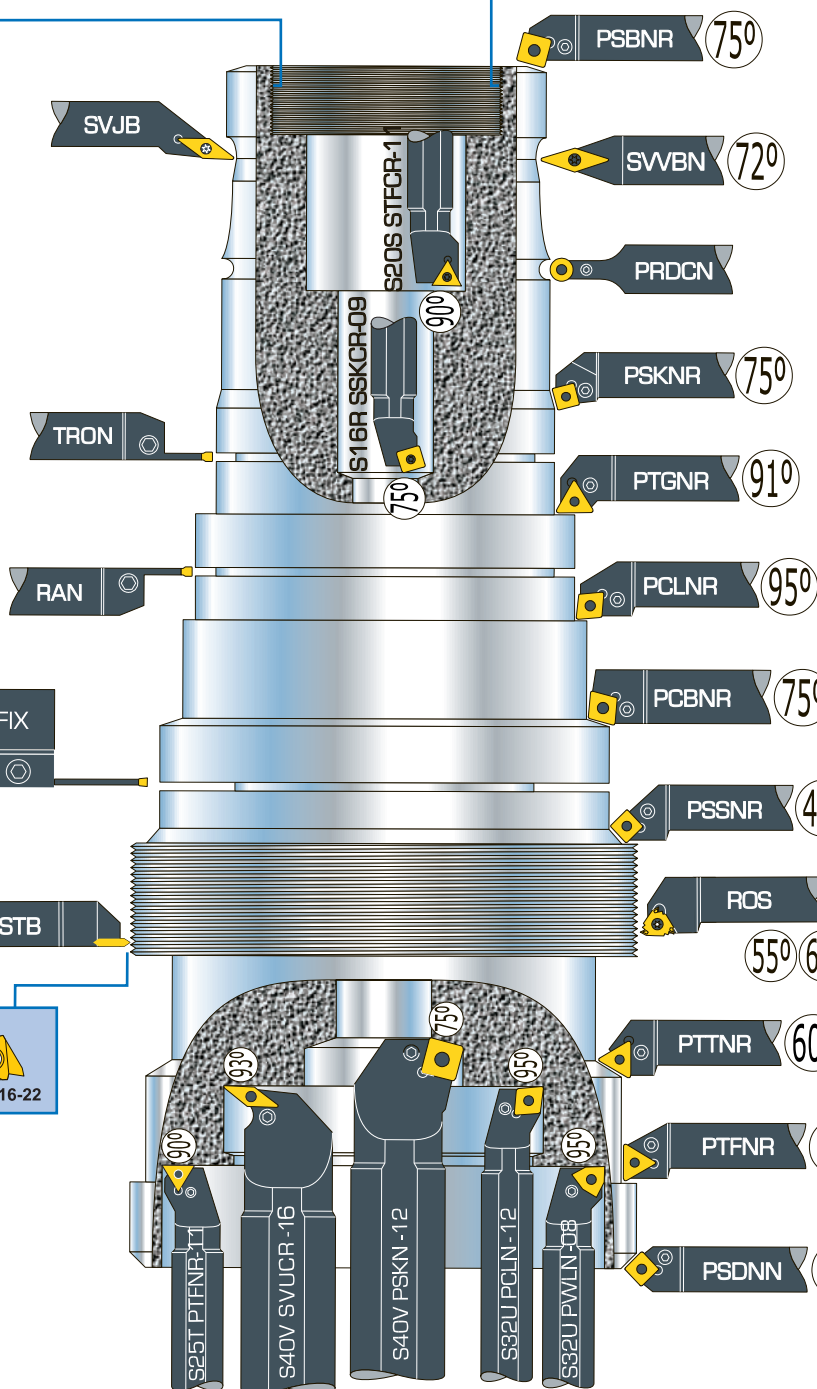
1010
1212
1616
2020
2525
3232





200 N/L/R
SP 300 N/L/R
400 N/L/R

MRMN 200
MGMN 300
400
500

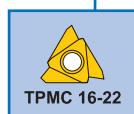


0808
1010
1212
1616
2020
2525
4040

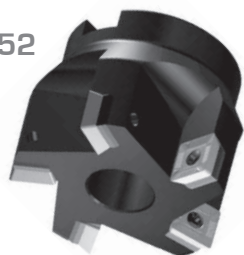
S06H
S08K
S10K
S12M
S16R
S20R
S25T
S32U
S40V
S50W

PORTAS EXTERNAS

PORTAS INTERNAS



K152



ESC 90. SDMT**12
Ø 40-50-63-80-100

K120
K121



ESC 90. TPKN**16
Ø 40-50-63-80-100

K118



ESC 90. APKT**10
Ø 40-50-63

K222



ESC 90. APKT**16
Ø 40-50-63-80-100

K291



PLAN 45. SEHT**12
Ø 40-50-63-80-100

K191



PLAN 45. SECN**12
Ø 40-50-63-80-100

K131



PLAN 75. SPKN**12
Ø 40-50-63-80-100

AFOM



OCTO 45. OFKT**05
Ø 63-80-100

K126



RAN 90. ADLT**15
Ø 25-32-40-50

K104



RAN 90. APKT**10
Ø 12-16-20-25

K237



RAD. WPR
Ø 10-12-16-20-25

K207



ERIZO***
Ø 40-50-63-80

K234



ALE 90. CCMT****
Ø 11-14-17-19

PERFORADO

MT (Multi-Turn)

MT10R/L-2.25D
MT12R/L-2.25D
MT14R/L-2.25D
MT16R/L-2.25D
MT20R/L-2.25D



QCMT
05-06-07-08-10

LPD 2, 3 y 4D
Ø 12-13,5



LPMT
04

SPD 2, 3, 4 y 5D
Ø 13-22



SPMT
05-06-07

NPD 2, 3, 4 y 5D
Ø 23-60



NPMT
22-25-29-33-41-51

INSERTOS PARA ACERO 3010 - 3020 - 3120 - 3030 (GEOMETRIAS HM - HMP - VF - VM - GR)



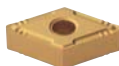
CCMT



CNMG



DCMT



DNMG



KNUX L/R



RCMT



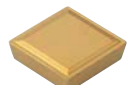
RCMX



SCMT



SNMG



SPMR



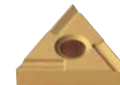
SPUN



TCMT



TNMG



TNMX - R/L



TOEH



TPMR



TPUN



TPUX



VBMT

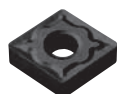


VNMG

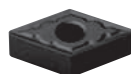


WNMG

INSERTOS PARA INOXIDABLES Y ACEROS DIFÍCILES 9020 - 9025 - 9030 - 5300 (GEOMETRÍAS GS - HS - HA)



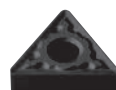
CNMG



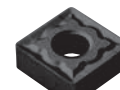
DNMG



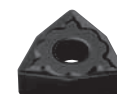
KNUX L/R



TNMG

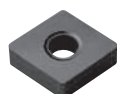


SNMG

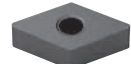


WNMG

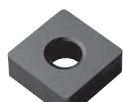
INSERTOS PARA FUNDICIÓN (305K) - 6010 - 6105 - 6110



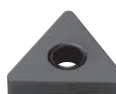
CNMA



DNMA



SNMA



TNMA

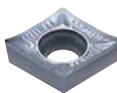


RCMT



VNMA

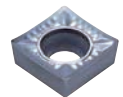
INSERTOS PARA ALUMINIO Y OTROS NO FERROSOS H01 (GEOMETRÍA AK) TAMBIÉN EN DIAMANTE POLICRISTALINO



CCGT



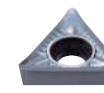
DCGT



SCGT



RCGT



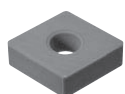
TCGT



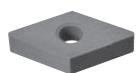
VBGT

INSERTOS PARA MECANIZADO AVANZADO (CERMET - CERÁMICO - CBN)

CERÁMICOS Y NITRURO DE SILICIO NTK



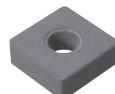
CNGA



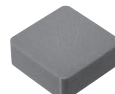
DNGA



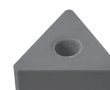
RNGN



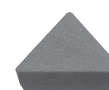
SNGA



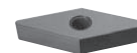
SNGN



TNGA

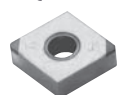


TPGN

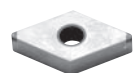


VNGA

CBN (NITRURO DE BORO)



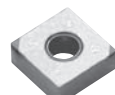
CNGA



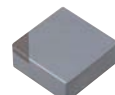
DNGA



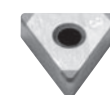
RNGN



SNGA



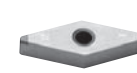
SNGN



TNGA

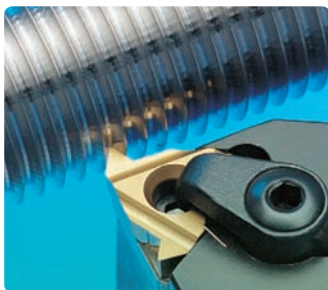


TPGN

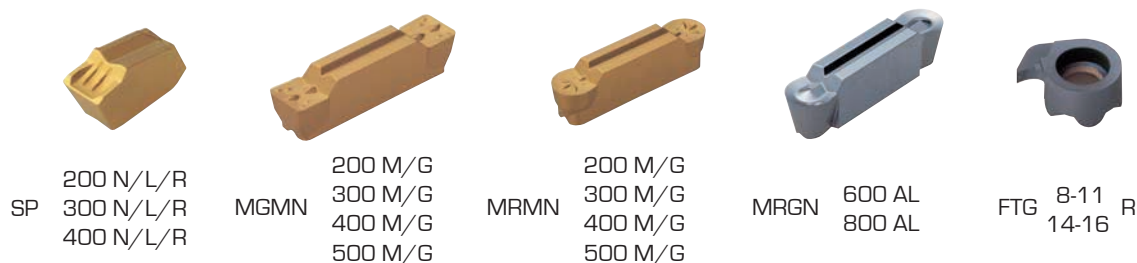
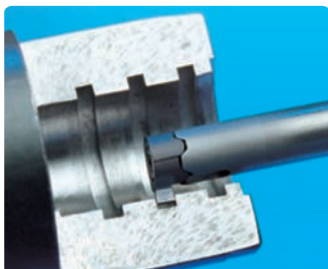


VNGA

INSERTOS PARA ROSCADO [ISO METRIC, ISO UN, WHITWORTH, BSW, BSP, BSPT] API - ACME - DIN 104 - ETC

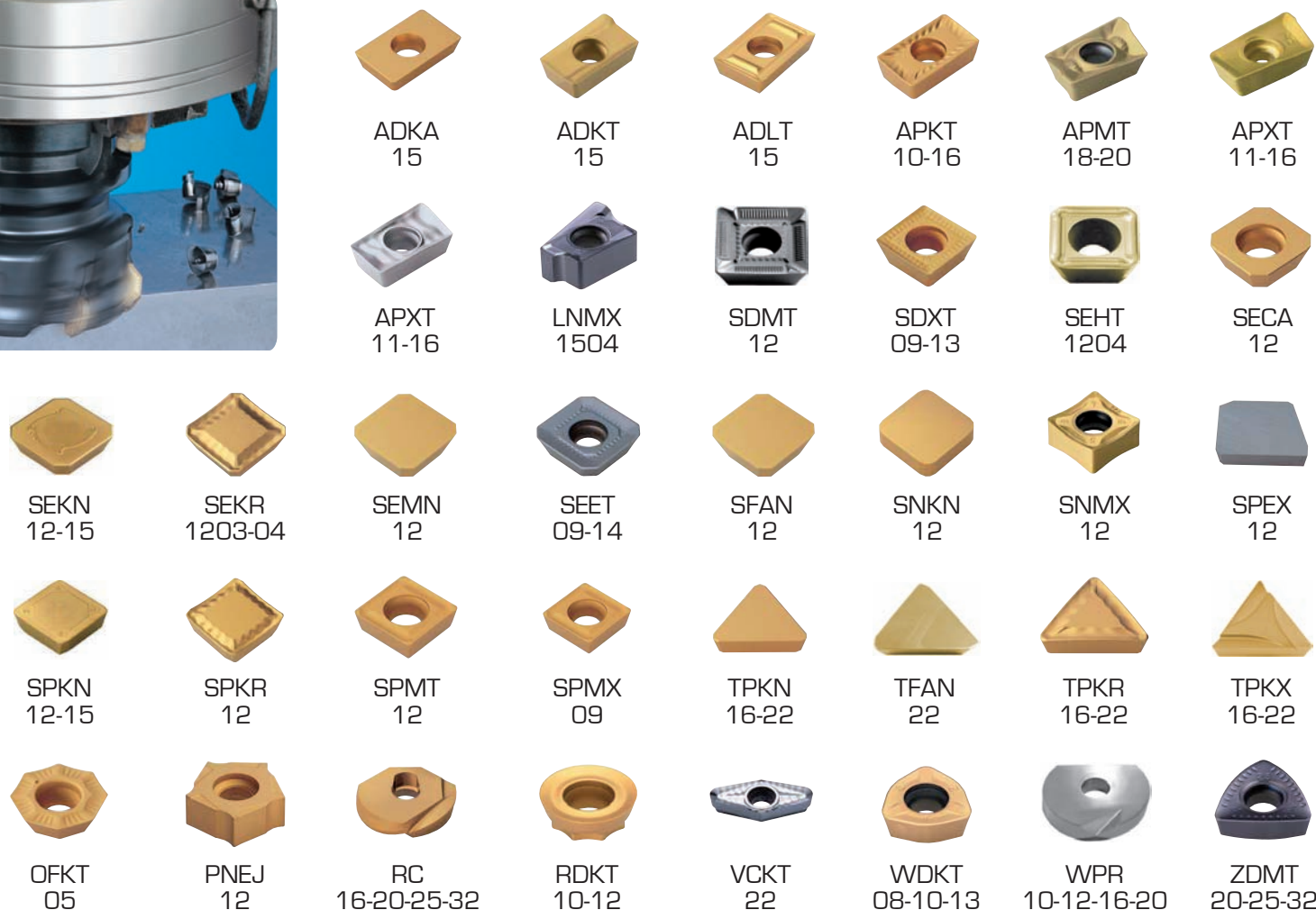


INSERTOS PARA TRONZADO Y RANURADO G - M 3120 - 9030 - 5300



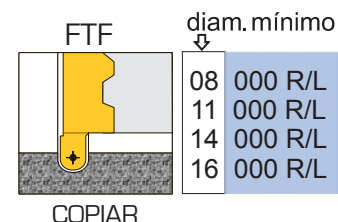
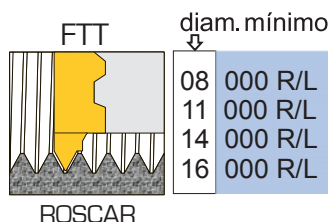
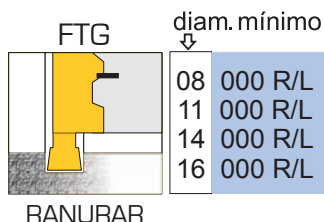
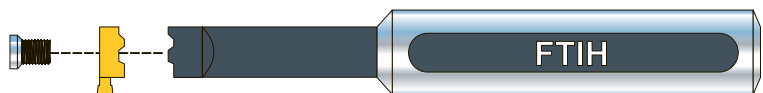
FRESADO NORMA ISO COMPATIBLES

INSERTOS PARA TODAS LAS APLICACIONES NCM 325 - PC 5300 - PC 3500 - PC 9530 - NCM 6510





FTIH	08312S	14312S
	08312C	14312C
	08412C	14412C
	08512C	14512C
	11312S	16312S
	11312C	16312C
	11412C	16412C
	11512C	16512C

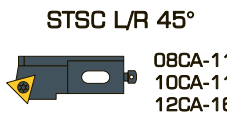
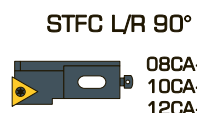
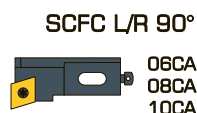
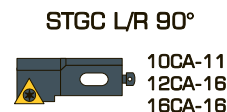
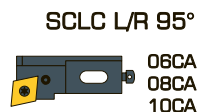
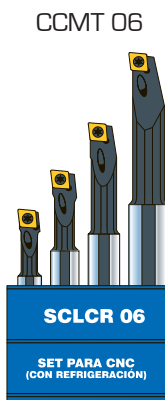
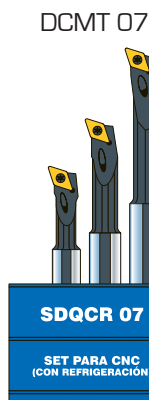
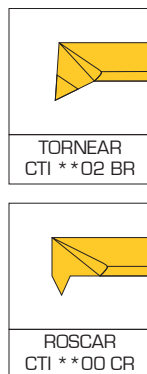
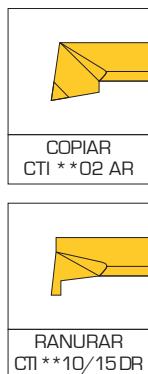
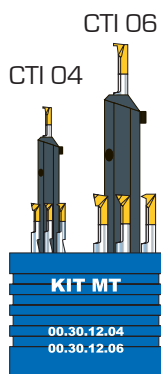


MICROHERRAMIENTAS

MADRINADO Y ALESADO DE DIÁMETROS PEQUEÑOS

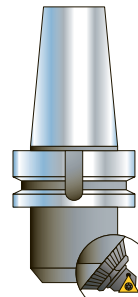
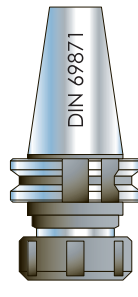
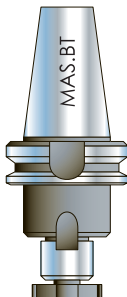
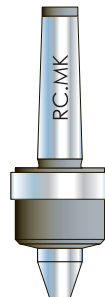
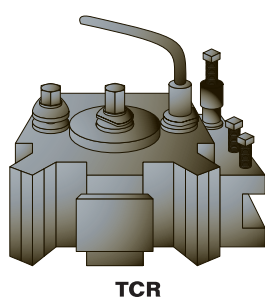
KIMU

- MICROTOOLS CON INSERTOS PARA MADRINAR DIÁMETROS PEQUEÑOS
- REFRIGERACIÓN INTERNA Y SISTEMA ANTIVIBRATORIO
- DISPONIBLE DESDE Ø 06



ACCESORIOS PARA TORNOS, FRESADORAS Y ALESADORAS

KIMU



- CONOS DE SUJECIÓN NORMA DIN 2080, DIN 69871-A MAS-BT, ANSI
- PINZAS Y PORTAPINZAS
- CONTRAPUNTAS GIRATORIAS
- TORRES DE CAMBIO RÁPIDO
- BARRAS DE ALESAR
- CÁPSULAS
- UNIDADES MICROMÉTICAS

METAL DURO INTEGRAL

CARBURO SÓLIDO CON MICROGRANO Y REVESTIMIENTO DE ÚLTIMA GENERACIÓN (PC 220)



TiAlN

FRESA DE PUNTA PLANA

HELICOIDAL DERECHO A 30°, 45° Y 60°
CORTE AL CENTRO, 2 Y 4 CORTES
SERIE STANDARD Y LARGA



TiAlN

FRESA DE ALTO RENDIMIENTO PARA DESGASTE

HELICOIDAL DERECHO A 30°
CORTE AL CENTRO, 3 Y 4 CORTES



TiAlN

FRESA DE PUNTA RADIAL O ESFÉRICA

HELICOIDAL DERECHO A 30°
CORTE AL CENTRO, 2, 3 Y 4 CORTES



BROCAS INTEGRALES

DIN 333 - DIN 338 - DIN 1897 - DIN 6537-K
HELICOIDAL A 25°- 35°
DE 2 Y 3 CORTES
SERIE LARGA Y EXTRALARGA

FRESADO DE MATRICERÍA



BFE



RC
16-20-25-32

BRE



ZDMT 08-11-13
ZPMT 1605



SDMT 09
SPMT 06
SPMT 12

CE - 45



CENTRADO
CHAFLANES
GRABADO

TWX
16

PAS 2000



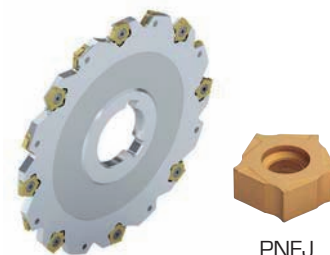
VCKT
22

FMRS



RDKT
10-12

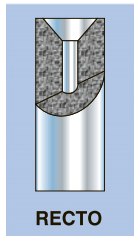
SPP



PNEJ
12

PICOS DE ARENADO

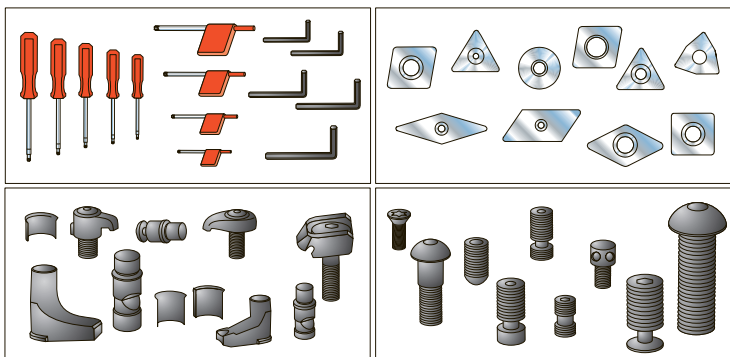
DIÁMETROS DISPONIBLES:
3, 4, 5 Y 6



RECTO

REPUESTOS COMPATIBLES

LLAVES - APOYOS - COMPONENTES - TORNILLOS



BARRA CILÍNDRICA



BCP - RECTIFICADO

APTO PARA PANTÓGRAFO Y
HERRAMIENTAS DE ALESADO
DESDE Ø 2 mm. HASTA Ø 14 mm.
LARGO TOTAL: 100 mm.