













Fresa para planear

| Serie | Cuerpo de la fresa | Placa | Kr | Aplicación | | | | | | Características | Página |
|-------|---|---|-----|------------|---|---|---|---|---|---|--------|
| | | | | P | M | K | N | S | H | | |
| FMA01 |  |  SEET12T3 SEET18T6 | 45° | ✓ | ✓ | ✓ | ✓ | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 315 mm Para acero, acero inoxidable, fundiciones, metales no ferríticos y materiales de alta resistencia térmica Fresa de corte suave con gran geometría de corte positiva Placas intercambiables Wiper para la m | B31 |
| FMA02 |  |  SEET12T3 | 45° | ✓ | ✓ | ✓ | ✓ | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 125 mm Para acero, acero inoxidable, fundiciones, metales no ferríticos y materiales de alta resistencia térmica Fresa de corte suave con gran geometría de corte positiva Paso ancho | B34 |
| FMA03 |  |  SEEN1203 SEKN1203 SEKR1203 SEKN1504 SEKR1504 | 45° | ✓ | ✓ | ✓ | ✓ | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø80 – 315 mm Para acero, acero inoxidable y fundiciones Fresa de corte suave con gran geometría de corte positiva Sujeción en cuña | B37 |
| FMA04 |  |  OFKT05T3 | 45° | ✓ | ✓ | ✓ | ✓ | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 160 mm Para acero, acero inoxidable, fundiciones y metales no ferríticos Placas intercambiables con ocho hélices Sujeción por tornillos | B40 |
| FMA04 |  |  OFKR0704 | 45° | ✓ | ✓ | ✓ | ✓ | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø125 – 315 mm Para acero, acero inoxidable, fundiciones y metales no ferríticos Placas intercambiables con ocho hélices Sujeción en cuña | B42 |
| FMA07 |  |  ONHU0604 ONHU08T5 | 45° | ✓ | | ✓ | | | ✓ | <ul style="list-style-type: none"> Intervalo de diámetros Ø25 – 50 mm Para acero y fundiciones Placas intercambiables con 16 hélices | B46 |

✓ Muy apropiado ✓ Apropriado

A

Tornear

B

Fresado

C

Taladrar













D

Información
técnica

E

Índice













Fresa para planear

| Serie | Cuerpo de la fresa | Placa | Kr | Aplicación | | | | | | Características | Página | |
|-------|---|---|-----|------------|---|---|---|---|---|-----------------|---|------------|
| | | | | P | M | K | N | S | H | | | |
| FMA07 |  |  ONHU0604 ONHU08T5 | 45° | ✓ | | ✓ | | | | ✓ | <ul style="list-style-type: none"> Intervalo de diámetros Ø40 – 315 mm Para acero y fundiciones Placas intercambiables con 16 hélices | B48 |
| FMA11 |  |  SNEG1205 SNEG1506 SNEG1907 | 45° | ✓ | ✓ | ✓ | | | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø63 – 315 mm Para acero, acero inoxidable y fundiciones Placas intercambiables con ocho hélices Placa intercambiable de doble cara extra gruesa para grandes profundidades de desprendimiento con una elevada resistenc | B52 |
| FMA12 |  |  ONHU08T6 | 45° | ✓ | ✓ | ✓ | | | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø63 – 315 mm Para acero, acero inoxidable y fundiciones Placas intercambiables con 16 hélices | B56 |
| FMD02 |  |  PNEG1105 | 67° | ✓ | ✓ | ✓ | | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 315 mm Para acero, acero inoxidable y fundiciones Placas intercambiables con diez hélices Sujeción en cuña o por tornillos Paso normal y estrecho | B60 B63 |
| FMD02 |  |  HNEX0905 | 55° | | | ✓ | | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø80 – 315 mm Para fundiciones Sujeción en cuña Placas intercambiables con doce hélices | B66 |
| FMD03 |  |  LNKT2007-ZR LNKT2510-ZR | 60° | ✓ | | ✓ | | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø100 – 400 mm Para acero y fundiciones Placas intercambiables tangenciales con cuatro hélices Corte pesado con grandes profundidades de corte Sujeción atornillada | B68 |

✓ Muy apropiado ✓ Apropriado

| | |
|----------|---------------------|
| A | Tomear |
| B | Fresado |
| C | Taladrar |
| D | Información técnica |
| E | Índice |

Fresa para planear

| Serie | Cuerpo de la fresa | Placa | Kr | Aplicación | | | | | | Características | Página |
|-------|---|---|-----|------------|---|---|---|---|---|---|--------|
| | | | | P | M | K | N | S | H | | |
| FME02 |  |  SPKT1204 SPKW1204 | 75° | ✓ | ✓ | ✓ | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 125 mm Para acero, fundiciones y acero inoxidable Sujeción por tornillos | B70 |
| FME03 |  |  SPKN1203 SPKR1203 SPEX1203 SPKN1504 SPKR1504 SPEX1504 | 75° | ✓ | ✓ | ✓ | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø80 – 400 mm Para acero, fundiciones y acero inoxidable Sujeción en cuña | B72 |
| FME04 |  |  LNKT1506-ZR | 75° | ✓ | | ✓ | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø125 – 315 mm Para acero y fundiciones Placas intercambiables tangenciales con cuatro hélices Corte pesado con grandes profundidades de corte Sujeción atornillada | B75 |
| FMP01 |  |  TPKN2204 | 90° | ✓ | ✓ | ✓ | | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø80 – 315 mm Para acero, acero inoxidable y fundiciones Fresa de corte suave con gran geometría de corte positiva Sujeción en cuña | B77 |
| FMP02 |  |  SEET09T3 SEET1203 | 90° | ✓ | ✓ | ✓ | ✓ | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 315 mm Para acero, acero inoxidable, fundiciones y metales no ferríticos Sujeción atornillada | B79 |
| FMP03 |  |  LNKT120608-ZR LNKT1506EN-ZR LNKT2007DN-ZR LNKT2510-ZR | 89° | ✓ | | ✓ | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 315 mm Para acero y fundiciones Placas intercambiables tangenciales con cuatro hélices Corte pesado con grandes profundidades de corte Sujeción atornillada | B82 |

✓ Muy apropiado ✓ Apropriado

A

Tornear

B

Fresado

C

Taladrar













D

Información técnica

E

Índice

Fresa para planear

| Serie | Cuerpo de la fresa | Placa | Kr | Aplicación | | | | | | Características | Página | |
|-------|---|---|-----|------------|---|---|---|---|---|-----------------|--|-----|
| | | | | P | M | K | N | S | H | | | |
| FMP12 |  |  WNHU0604 WNHU0806 | 90° | ✓ | | ✓ | | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 315 mm Para acero y fundiciones Placas intercambiables tangenciales con cuatro hélices Corte pesado con grandes profundidades de corte Sujeción atornillada | B86 |
| FMP12 |  |  WNHU0604 | 90° | ✓ | | ✓ | | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 315 mm Para acero y fundiciones Placas intercambiables tangenciales con cuatro hélices Corte pesado con grandes profundidades de corte Sujeción atornillada | B88 |
| FMR01 |  |  RCKT10T3 RCKT1204 RCGX1204 | | ✓ | ✓ | ✓ | ✓ | ✓ | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø25 – 63 mm Para acero, acero inoxidable, fundiciones, metales no ferríticos y materiales de alta resistencia térmica Sujeción atornillada | B90 |
| FMR02 |  |  RCGX1204 RCKT1204 RCMW1204 RCKT1606 RCKT2006 | | ✓ | ✓ | ✓ | ✓ | ✓ | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 250 mm Para acero, acero inoxidable, fundiciones, metales no ferríticos y materiales de alta resistencia térmica Sujeción atornillada | B93 |
| FMR03 |  |  RDKW0803 RDKW10T3 RDKW1204 | | ✓ | ✓ | ✓ | | | | ✓ | <ul style="list-style-type: none"> Intervalo de diámetros Ø15 – 50 mm Para acero, acero inoxidable y fundiciones Sujeción atornillada Construcción de moldes y matrices | B96 |
| FMR03 |  |  RDKW0702 RDKW1003 | | ✓ | ✓ | ✓ | | | | ✓ | <ul style="list-style-type: none"> Intervalo de diámetros Ø15 – 50 mm Para acero, acero inoxidable y fundiciones Sujeción atornillada Construcción de moldes y matrices | B98 |

✓ Muy apropiado ✓ Apropriado

A
Tornear





B
Fresado

C
Taladrar







D
Información técnica

E
Índice

Fresa para planear

| Serie | Cuerpo de la fresa | Placa | Kr | Aplicación | | | | | | Características | Página |
|-------|---|---|----|------------|---|---|---|---|---|--|--------|
| | | | | P | M | K | N | S | H | | |
| FMR04 |  |  RDKW1204 RDKW1605 RDKW2006 | | ✓ | ✓ | ✓ | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø50 – 200 mm Para acero, acero inoxidable y fundiciones Sujeción atornillada Construcción de moldes y matrices | B100 |
| FMR04 |  |  RDKW1003 RDKW12T3 RDKW1604 | | ✓ | ✓ | ✓ | | | | <ul style="list-style-type: none"> Intervalo de diámetros Ø42 – 200 mm Para acero, acero inoxidable y fundiciones Sujeción atornillada Construcción de moldes y matrices | B102 |

Fresa de escuadrar

| | | | | | | | | | | | |
|-------|---|---|-----|---|---|---|---|---|--|--|------|
| EMP01 |  |  APKT0702 APKT11T3 APKT1604 | 90° | ✓ | ✓ | ✓ | ✓ | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø12 – 63 mm Para acero, acero inoxidable, fundiciones, metales no ferríticos y materiales de alta resistencia térmica Mango cilíndrico Para fresado para escuadrar, para ranurado y en rampa Fresa de corte suave | B104 |
| EMP01 |  |  APKT11T3 APKT0702 APKT1604 | 90° | ✓ | ✓ | ✓ | ✓ | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø12 – 63 mm Para acero, acero inoxidable, fundiciones, metales no ferríticos y materiales de alta resistencia térmica Mango cilíndrico Para fresado para escuadrar, para ranurado y en rampa Fresa de corte suave | B107 |
| EMP02 |  |  APKT0702 APKT11T3 APKT1604 | 90° | ✓ | ✓ | ✓ | ✓ | ✓ | | <ul style="list-style-type: none"> Intervalo de diámetros Ø40 – 250 mm Para acero, acero inoxidable, fundiciones, metales no ferríticos y materiales de alta resistencia térmica Para fresado para escuadrar, para ranurado y en rampa Fresa de corte suave con gran geometría de | B110 |

✓ Muy apropiado ✓ Apropriado

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

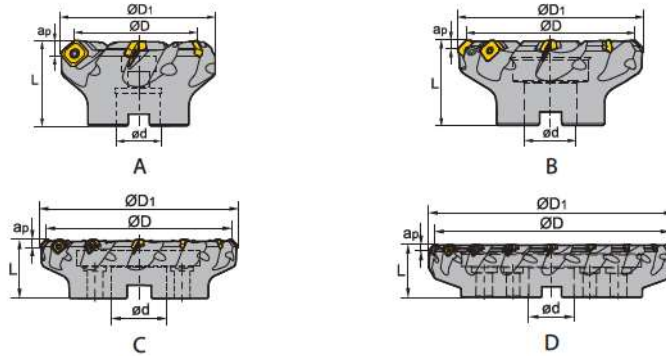
Índice

Fresa para planear

FMA01 Kr: 45°



Paso estrecho



| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|---|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|------|----------|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMA01-050-A22-SE12-04 | | ● | ○ | 50 | 61 | 22 | 40 | 6 | 4 | A | 0,3 | SEET12T3 |
| FMA01-050-A22-SE12-04C | * | ● | ○ | 50 | 61 | 22 | 40 | 6 | 4 | A | 0,3 | |
| FMA01-063-A22-SE12-05 | | ● | | 63 | 74 | 22 | 40 | 6 | 5 | A | 0,5 | |
| FMA01-063-A22-SE12-05C | * | ● | ○ | 63 | 74 | 22 | 40 | 6 | 6 | A | 1,2 | |
| FMA01-080-A27-SE12-06 | | ● | ● | 80 | 91 | 27 | 50 | 6 | 6 | A | 1,2 | |
| FMA01-080-A27-SE12-06C | * | ● | ○ | 80 | 91 | 27 | 50 | 6 | 6 | A | 1,2 | |
| FMA01-100-B32-SE12-07 | | ● | ○ | 100 | 107 | 32 | 50 | 6 | 7 | B | 1,2 | |
| FMA01-100-B32-SE12-07C | * | ○ | ○ | 100 | 107 | 32 | 50 | 6 | 7 | B | 1,2 | |
| FMA01-125-B40-SE12-08 | | ● | ● | 125 | 136 | 40 | 63 | 6 | 8 | B | 2,6 | |
| FMA01-125-B40-SE12-08C | * | ○ | | 125 | 136 | 40 | 63 | 6 | 8 | B | 2,6 | |
| FMA01-160-B40-SE12-10 | | ● | ● | 160 | 170 | 40 | 63 | 6 | 10 | B | 4,3 | |
| FMA01-160-B40-SE12-10C | * | ○ | | 160 | 170 | 40 | 63 | 6 | 10 | B | 4,3 | |
| FMA01-200-C60-SE12-12 | | ● | ○ | 200 | 210 | 60 | 63 | 6 | 12 | C | 7,6 | |
| FMA01-250-C60-SE12-14 | | ● | ○ | 250 | 260 | 60 | 63 | 6 | 14 | C | 13,5 | |
| FMA01-315-D60-SE12-18 | | ● | ○ | 315 | 325 | 60 | 70 | 6 | 18 | D | 20,8 | |
| FMA01-100-B32-SE18-04 | | ○ | ○ | 100 | 120 | 32 | 63 | 10 | 4 | B | 1,2 | SEET18T6 |
| FMA01-125-B40-SE18-05 | | ○ | ○ | 125 | 145 | 40 | 63 | 10 | 5 | B | 2,6 | |
| FMA01-160-C40-SE18-06 | | ○ | ○ | 160 | 180 | 40 | 63 | 10 | 6 | C | 4,3 | |
| FMA01-200-C60-SE18-08 | | ● | ○ | 200 | 220 | 60 | 63 | 10 | 8 | C | 7,6 | |
| FMA01-250-C60-SE18-10 | | ● | | 250 | 270 | 60 | 63 | 10 | 10 | C | 13,5 | |
| FMA01-315-D60-SE18-12 | | ○ | ○ | 315 | 335 | 60 | 80 | 10 | 12 | D | 20,8 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

A

Tomear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Fresa de placas intercambiables Fresa para planear

A

Tornear

Piezas de recambio

| | Placa | SEET12T3 | SEET12T3 | SEET18T6 |
|--|------------------|------------------------|------------------------|----------------------|
| | ØD | 50-100 | 125 - 315 | 100- 315 |
| | Tornillo (placa) | I60M3.5*10 (2,7 Nm) | I60M3.5*12 (2,7 Nm) | I60M5*17 (6,7 Nm) |
| | Tornillo (base) | | SM5*7XA | SM8*9XA |
| | Base | | S13BS | S18BS |
| | Llave (placa) | WT15IS | WT15IS | |
| | Llave (placa) | | | WT20IT |
| | Llave (base) | | WH35L | WH50L |



B

Fresado

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| SEET | L | I.C | S | d |
|-------|------|------|------|-----|
| 12 T3 | 13,4 | 13,4 | 3,97 | 4,1 |
| 18 T6 | 18 | 18 | 6,1 | 5,5 |

Placa de fresado

C

Taladrar

| Placa de fresado SE** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | |
|-----------------------|-------------|-----------------------|-------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | | P | M | K | N | S | H | | | | | | | | | | | | | | | | | |
| | ISO | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SEET12T3-CF | 2,55 | | | | | ● | | | | ● | | | | | | | | | | | | | |
| | SEET12T3-CM | 2,55 | | | | | ● | | | | ● | | | | | | | | | | | | | |
| | SEET12T3-CR | 2,55 | | | | | ● ● | | | | ○ | | | | | | | | | | | | | |
| | SEET12T3-DF | 2,55 | ● ● | | | ● ● | | | | | | | | ● ○ | | | ○ ○ | | | | | | | |
| | SEET12T3-DM | 2,55 | ● ● ● ● ● ● | | | | | | | | ● | | ● | ● | | | | | | | | | | |
| | SEET18T6-DM | 2,29 | ● | | | ● | | | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

D

Información técnica

E

Índice

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|--------------|------|------|------|-----|
| SEET | L | I.C | S | d |
| 12 T3 | 13,4 | 13,4 | 3,97 | 4,1 |
| 18 T6 | 18 | 18 | 6,1 | 5,5 |

Placa de fresado

| Placa de fresado SE** | | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | |
|-----------------------|-------------|------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |
| | SEET12T3-DR | 2,55 | ● | ● | | ● | ○ | | | | | | | ○ | ○ | | | | | | | | |
| | SEET12T3-EF | 2,55 | | | | | | | | | | | | ○ | ● | | | | | | | | |
| | SEET12T3-EM | 2,55 | | | ● | ● | | | | | | | | ○ | ● | | | | | | | | |
| | SEET12T3-LH | 2,55 | | | | | | | | ○ | | | | | | | | | | | | ● | ● |

● Desde el almacén ○ Bajo pedido

- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|--------------|-------|------|------|-----|
| SEET | L | I.C | S | d |
| 12 T3 | 17,82 | 13,4 | 3,97 | 4,1 |

Placa de fresado

| Placa de fresado SE** | | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|------------|-----|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| | P | | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | R | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |
| | SEET12T3-W | 500 | 9,46 | | | | | | | ○ | | | | | ● | | | | | ○ | ○ | | | |

● Desde el almacén ○ Bajo pedido

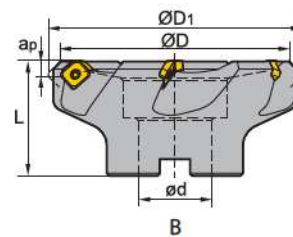
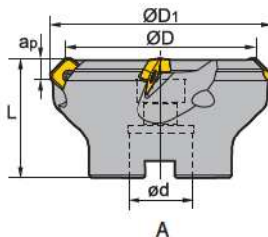
- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

A

Fresa para planear

FMA02 Kr: 45°


Tornear


B

Paso normal y ancho

Fresado

C

| Artículo | * Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|-----------------------|-----------|------------------|-----------------|----|----|--------------------|---------|-------------|-----|----------|
| | | ØD | ØD ₁ | ød | L | a _p max | | | | |
| FMA02-050-A22-SE12-03 | ● | 50 | 61 | 22 | 40 | 6 | 3 | A | 0,4 | SEET12T3 |
| FMA02-063-A22-SE12-04 | ● | 63 | 74 | 22 | 40 | 6 | 4 | A | 0,6 | |
| FMA02-080-A27-SE12-04 | ● | 80 | 91 | 27 | 50 | 6 | 4 | A | 1,3 | |
| FMA02-100-B32-SE12-05 | ● | 100 | 107 | 32 | 50 | 6 | 5 | B | 1,3 | |
| FMA02-125-B40-SE12-06 | ○ | 125 | 131 | 40 | 63 | 6 | 6 | B | 2,6 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Taladrar

Piezas de recambio

| | Placa | SEET12T3 | |
|------------------|-------|------------------------|--|
| | ØD | 50-125 | |
| Tornillo (placa) | | I60M3.5*10 (2,7 Nm) | |
| Llave (placa) | | WT15IS | |

D

Información técnica

E




Índice

Código de sistema > B26

Selección de tipos > B24

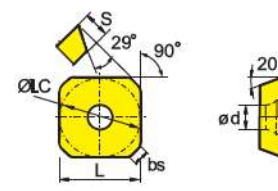









Información técnica > B463

Parametros > B224

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | | |
|-------|------|------|------|-----|
| SEET | L | I.C | S | d |
| 12 T3 | 13,4 | 13,4 | 3,97 | 4,1 |

Placa de fresado

| Placa de fresado SE** | | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | |
|---|-------------|------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | | P | M | K | N | S | H | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | SEET12T3-CF | 2,55 | | | | | | | ● | | ● | | | | | | | | | | | | | |
|  | SEET12T3-CM | 2,55 | | | | | | | ● | | ● | | | | | | | | | | | | | |
|  | SEET12T3-CR | 2,55 | | | | | | | ● ● | | ○ | | | | | | | | | | | | | |
|  | SEET12T3-DF | 2,55 | ● ● | | | ● ● | | | | | | | | | | | ○ | | | | ○ | | | |
|  | SEET12T3-DM | 2,55 | ● ● ● ● ● ● | | | | | | | | ● | | ● | | ● | | | | | | | | | |
|  | SEET12T3-DR | 2,55 | ● ● | | | ● | | | ○ | | | | ○ | | ○ | | | | | | | | | |
|  | SEET12T3-EF | 2,55 | | | | | | | | | | | ○ | | ● | | | | | | | | | |
|  | SEET12T3-EM | 2,55 | | | | ● ● | | | | | | | ○ | | ● | | | | | | | | | |
|  | SEET12T3-LH | 2,55 | | | | | | | | | ○ | | | | | | | | | | | | ● ● | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica




E

Índice

Fresa de placas intercambiables Fresa para planear

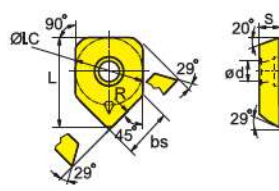

A

Tornear

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | | |
|-------|-------|------|------|-----|
| SEET | L | I.C | S | d |
| 12 T3 | 17,82 | 13,4 | 3,97 | 4,1 |

Placa de fresado

| Placa de fresado SE** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | HT | HC ² | HW | | | | | | | | | | |
|--|----------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
|  | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | R | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |
|  SEET12T3-W | 500 | 9,46 | | | | | | | | | | | | | ● | | | | | ○ | ○ | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Código de sistema > B26

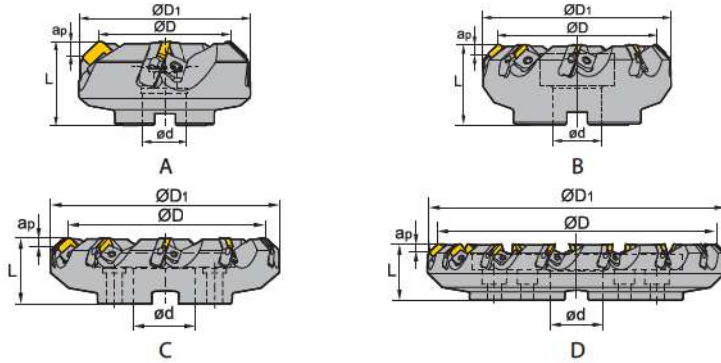
Selección de tipos > B24

Información técnica > B463

Parametros > B224

Fresa para planear

FMA03 Kr: 45°



| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|-----------------------|---|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|------|----------------------------------|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMA03-080-A27-SE12-04 | | ○ | ○ | 80 | 103 | 27 | 50 | 5,5 | 4 | A | 1,8 | SEEN1203 SEKN1203 SEKR1203 |
| FMA03-100-B32-SE12-05 | | ○ | ○ | 100 | 122 | 32 | 50 | 5,5 | 5 | B | 2,4 | |
| FMA03-125-B40-SE12-06 | | ○ | ○ | 125 | 147 | 40 | 63 | 5,5 | 6 | B | 4,4 | |
| FMA03-160-B40-SE12-08 | | ○ | ○ | 160 | 181 | 40 | 63 | 5,5 | 8 | B | 6,4 | |
| FMA03-200-C60-SE12-10 | | ○ | ○ | 200 | 221 | 60 | 63 | 5,5 | 10 | C | 8,5 | |
| FMA03-250-C60-SE12-12 | | ○ | ○ | 250 | 270 | 60 | 63 | 5,5 | 12 | C | 14,1 | |
| FMA03-315-D60-SE12-15 | | ○ | ○ | 315 | 353 | 60 | 63 | 5,5 | 15 | D | 22,2 | SEKN1504 SEKR1504 |
| FMA03-080-A27-SE15-04 | | ○ | | 80 | 103 | 27 | 50 | 7,5 | 4 | A | 1,7 | |
| FMA03-100-B32-SE15-05 | | ○ | | 100 | 122 | 32 | 50 | 7,5 | 5 | B | 2,3 | |
| FMA03-125-B40-SE15-06 | | ○ | | 125 | 147 | 40 | 63 | 7,5 | 6 | B | 4,2 | |
| FMA03-160-B40-SE15-08 | | ○ | | 160 | 181 | 40 | 63 | 7,5 | 8 | B | 6,1 | |
| FMA03-200-C60-SE15-10 | | ○ | | 200 | 221 | 60 | 63 | 7,5 | 10 | C | 8,3 | |
| FMA03-250-C60-SE15-12 | | ○ | | 250 | 270 | 60 | 63 | 7,5 | 12 | C | 13,6 | |
| FMA03-315-D60-SE15-15 | | ○ | ○ | 315 | 353 | 60 | 63 | 7,5 | 15 | D | 21,8 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

A
Tomear
B
Fresado
C
Taladrar
D
Información técnica
E
Índice

Fresa de placas intercambiables Fresa para planear

A

Tornear

Piezas de recambio

| | Placa | SEEN1203 SEKN1203 SEKR1203 | SEKN1504 SEKR1504 |
|--|--------------------|----------------------------------|----------------------|
| | ØD | 80-315 | 80-315 |
| | Tornillo de ajuste | LOM5*15.1 | LOM5*15.1 |
| | Módulo (izquierdo) | LSE12L | LSE15L |
| | Módulo (derecho) | LSE12R | LSE15R |
| | Tornillo (cuña) | DM8*21X (10,2 Nm) | DM8*21X (10,2 Nm) |
| | Cuña (izquierda) | W01L | W01L |
| | Cuña (derecha) | W01R | W01R |
| | | WT20T | WT20T |
| | Llave (cuña) | WH40T | WH40T |



B

Fresado

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| SEEN | L | I.C | S |
|-------|------|------|------|
| 12 03 | 12,7 | 12,7 | 3,18 |

Placa de fresado

C

Taladrar

| Placa de fresado SE** | | HC ¹ (CVD) | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | | |
|-----------------------|--------------|-----------------------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SEEN1203AFTN | 1,8 | | | | | | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

D

Información técnica

E

Índice

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parámetros > B224

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | |
|-------|--------|--------|------|
| SEKN | L | I.C | S |
| 12 03 | 12,7 | 12,7 | 3,18 |
| 15 04 | 15,875 | 15,875 | 4,76 |

Placa de fresado

| Placa de fresado SE** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | |
|-----------------------|--------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|---|
| | P | | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SEKN1203AFN | 1,8 | ○ | | | | | | | | | | | | | | | | | | | | | |
| | SEKN1203AFTN | 1,8 | ● | ● | ● | ● | | | | | | | ○ | | | | | | | | ● | ● | | ○ |
| | SEKN1504AFTN | 1,6 | ● | ○ | | ● | ● | | | | | ● | | | | | | | | | | | | ○ |
| | SEKN1504AZ | 1,6 | ● | | | | | | | | | | | | | | | | | | | | | ○ |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | |
|-------|------|------|------|
| SEKR | L | I.C | S |
| 12 03 | 12,7 | 12,7 | 3,18 |

Placa de fresado

| Placa de fresado SE** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | |
|-----------------------|-------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SEKR1203AFN | 1,8 | ● | | | | | | | | | | ○ | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A

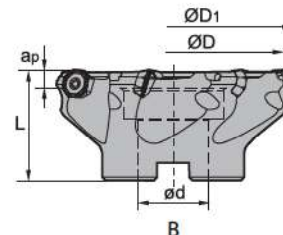
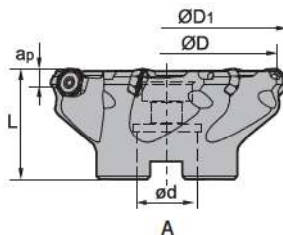
Fresa para planear

FMA04 Kr: 45°


Tornear



Sujeción por tornillos


B

Fresado

C


Taladrar

D

Información técnica

E



Índice

| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa  |
|------------------------|-----|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|-----|--|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMA04-050-A22-OF05-04 | ● | | | 50 | 56 | 22 | 40 | 3,5 | 4 | A | 0,3 | OFKT05T3 |
| FMA04-050-A22-OF05-05 | ● | | | 50 | 56 | 22 | 40 | 3,5 | 5 | A | 0,4 | |
| FMA04-050-A22-OF05-05C | * ○ | | | 50 | 56 | 22 | 40 | 3,5 | 5 | A | 0,4 | |
| FMA04-063-A22-OF05-05 | ● | | | 63 | 69 | 22 | 40 | 3,5 | 5 | A | 0,5 | |
| FMA04-063-A22-OF05-05C | * ○ | | | 63 | 69 | 22 | 40 | 3,5 | 5 | A | 0,5 | |
| FMA04-080-A27-OF05-06 | ● ○ | | | 80 | 86 | 27 | 50 | 3,5 | 6 | A | 0,8 | |
| FMA04-080-A27-OF05-06C | * ● | | | 80 | 86 | 27 | 50 | 3,5 | 6 | A | 0,8 | |
| FMA04-100-B32-OF05-07 | ● ○ | | | 100 | 106 | 32 | 50 | 3,5 | 7 | B | 1,2 | |
| FMA04-100-B32-OF05-07C | * ○ | | | 100 | 106 | 32 | 50 | 3,5 | 7 | B | 1,2 | |
| FMA04-125-B40-OF05-08 | ● | | | 125 | 130 | 40 | 63 | 3,5 | 8 | B | 2,7 | |
| FMA04-125-B40-OF05-08C | * ○ | | | 125 | 130 | 40 | 63 | 3,5 | 8 | B | 2,7 | |
| FMA04-160-B40-OF05-10 | ● | | | 160 | 165 | 40 | 63 | 3,5 | 10 | B | 5,1 | |




● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

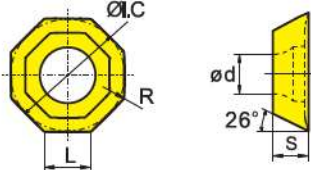



| | Placa | OFKT05T3 | OFKT05T3 |
|--|-------|-----------------------|----------------------|
| | ØD | 50-63 | 80-160 |
|  Tornillo (placa) | | I60M4*8.4 (3,4 Nm) | I60M4*10 (3,4 Nm) |
|  Llave (placa) | | WT15IS | WT15IS |



-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | | |
|-------|------|------|------|-----|
| OFKT | L | I.C | S | d |
| 05 T3 | 5,26 | 12,7 | 3,97 | 4,4 |

Placa de fresado

| Placa de fresado OF** | | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | | | HT | HC ² | HW | | | | | | | |
|---|-------------|-----|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | R | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | OFKT05T3-DF | 0,5 | | | | | | | | | | ● | | ● | | | | | | | | | | |
|  | OFKT05T3-DM | 0,5 | | | | ○ | | | | | | ● | | ● | | ● | | | | | | | | |
|  | OFKT05T3-LH | 0,5 | | | | | | | | | | | | | | | | | | | | | ● | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A
Tornear
B
Fresado
C
Taladrar
D
Información técnica
E
Índice

A

Fresa para planear

FMA04 Kr: 45°

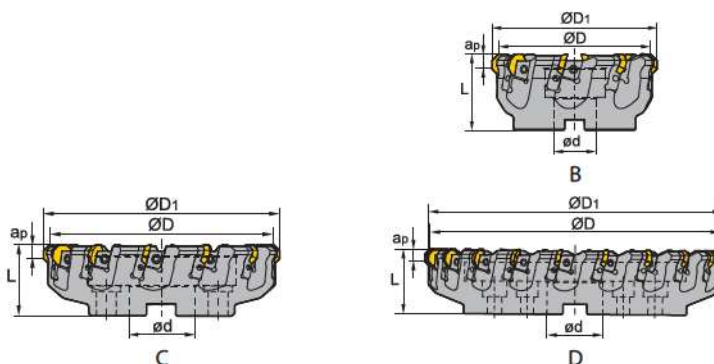

Tornear




Sujeción en cuña

B

Fresado


C

Taladrar

| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa  |
|-----------------------|---|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|------|--|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMA04-125-B40-OF07-08 | ● | | | 125 | 136 | 40 | 63 | 5 | 8 | B | 3,9 | OFKR0704 |
| FMA04-160-B40-OF07-10 | ● | | | 160 | 171 | 40 | 63 | 5 | 10 | B | 5,9 | |
| FMA04-200-C60-OF07-12 | ● | | | 200 | 211 | 60 | 63 | 5 | 12 | C | 7,6 | |
| FMA04-250-C60-OF07-16 | ● | | | 250 | 261 | 60 | 63 | 5 | 16 | C | 13,3 | |
| FMA04-315-D60-OF07-20 | ○ | ○ | | 315 | 321 | 60 | 63 | 5 | 20 | D | 20,3 | |









● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

D




Información técnica

Piezas de recambio

| | Placa | OFKR0704 |
|---|--------------------|----------------------|
| | ØD | 125 - 315 |
|  | Tornillo de ajuste | LOM5*15.1 |
|  | Módulo (izquierdo) | LOF07L |
|  | Módulo (derecho) | LOF07R |
|  | Tornillo (cuña) | DM8*21X (10,2 Nm) |
|  | Cuña (izquierda) | W02L |
|  | Cuña (derecha) | W02R |
|  | | WT20T |
|  | Llave (cuña) | WH40T |

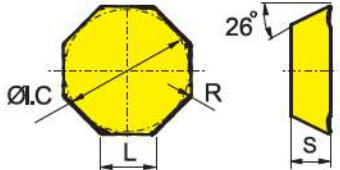




E

Índice

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | |
|-------|------|-------|------|
| OFKR | L | I.C | S |
| 07 04 | 7,45 | 17,94 | 4,76 |

Placa de fresado

| Placa de fresado OF** | | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|---|--------------|-----|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | R | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | OFKR0704-DF | 0,8 | | | | ○ | | | | | | | | ● | | | | | | | | | | |
|  | OFKR0704-DM | 0,8 | ● | ● | ● | ● | ● | | | | | | ○ | | ● | | | | | | | | | |
|  | OFKR0704W-DM | 0,8 | ○ | | | | | | ○ | | | | ● | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

| | |
|----------|---------------------|
| A | Tornear |
| B | Fresado |
| C | Taladrar |
| D | Información técnica |
| E | Índice |

Notas

A

Tornear

B

Fresado

C

Taladrar

D

Información
técnica

E

Índice

Series of horizontal dotted lines for notes, organized into sections A through E.



FMA07 Kr: 45°

Fresa para planear

- Elevado factor coste-beneficio gracias a 16 filos de corte.
- Placas intercambiables gruesas para la mejor estabilidad posible y seguridad frente a la rotura.
- Diversos rompevirutas para el mejor arranque de virutas.
- Dos tamaños de placa disponibles.

Tipos de placa

YBC302

CVD
P15-P35

YBG202

PVD
P10-P30

YBM253

CVD
P20-P40

YBM351

CVD
P25-P40

YBG205

PVD
P10-P30
M20-M30

YB9320

PVD
P15-P25
M20-M30

YBD152

CVD
K05-K25

Rompevirutas

-PF

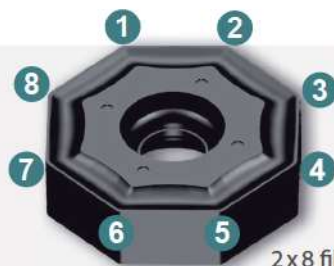


- Fuerza de corte reducida
- Muy puntiagudo

-PM



- Aplicación general
- Relación equilibrada entre estabilidad y afilado

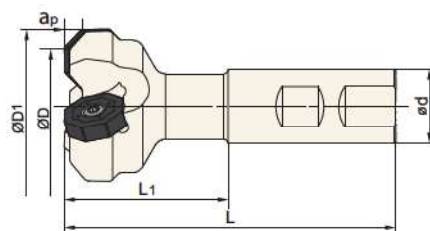


2x8 filos de corte



A
Fresa para planear
FMA07 Kr: 45°


Tornear



Mango Weldon

B

Fresado

C

Taladrar

| Artículo | * Almacén | Dimensiones [mm] | | | | | | | Dientes | kg | Placa |
|-------------------------|-----------|------------------|-----------------|----|----------------|-----|--------------------|---|---------|----------|-------|
| | | ØD | ØD ₁ | ød | L ₁ | L | a _{p max} | | | | |
| FMA07-025-XP20-ON06-02 | ○ | 25 | 37 | 20 | 45 | 95 | 4 | 2 | 0,2 | ONHU0604 | |
| FMA07-025-XP20-ON06-02C | * ○ | 25 | 37 | 20 | 45 | 95 | 4 | 2 | 0,2 | | |
| FMA07-032-XP25-ON06-02C | * ● | 32 | 44 | 25 | 55 | 111 | 4 | 2 | 0,4 | | |
| FMA07-040-XP25-ON06-03 | ○ | 40 | 52 | 25 | 50 | 106 | 4 | 3 | 0,4 | ONHU08T5 | |
| FMA07-032-XP25-ON08-02 | ● | 32 | 47 | 25 | 55 | 111 | 5 | 2 | 0,4 | | |
| FMA07-040-XP25-ON08-03 | ● | 40 | 55 | 25 | 55 | 111 | 5 | 3 | 0,5 | | |
| FMA07-040-XP25-ON08-03C | * ● | 40 | 55 | 25 | 55 | 111 | 5 | 3 | 0,5 | | |
| FMA07-050-XP25-ON08-04 | ● | 50 | 65 | 25 | 55 | 111 | 5 | 4 | 0,6 | | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior




D

Información técnica

| Piezas de recambio | | | |
|--------------------|------------------|----------------------|----------------------|
| | Placa | ONHU0604 | ONHU08T5 |
| | ØD | 25-40 | 32-50 |
| | Tornillo (placa) | I60M4*10 (3,4 Nm) | I60M5*13 (6,7 Nm) |
| | Llave (placa) | WT15IS | |
| | Llave (placa) | | WT20IT |

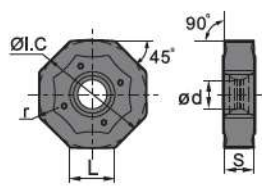



E

Índice

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| ONHU | L | I.C | S | d |
|--------------|------|--------|------|-----|
| 06 04 | 6,58 | 15,875 | 4,76 | 4,4 |
| 08 T5 | 8,39 | 20,2 | 5,77 | 5,3 |

Placa de fresado

| Placa de fresado ON** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | | |
|---|---------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | ONHU060408-PF | 0,8 | ○ | | ○ | | | | | | | | | | ● | | | | | | | | | |
| | ONHU08T508-PF | 0,8 | ● | | ● | | | | ○ | | | | ● | ● | | | | | | | | | | |
|  | ONHU060408-PM | 0,8 | ● | | ● | | ● | ● | | | | ● | | | | | | | | | | | | |
| | ONHU08T508-PM | 0,8 | ● | | ● | | ● | ● | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

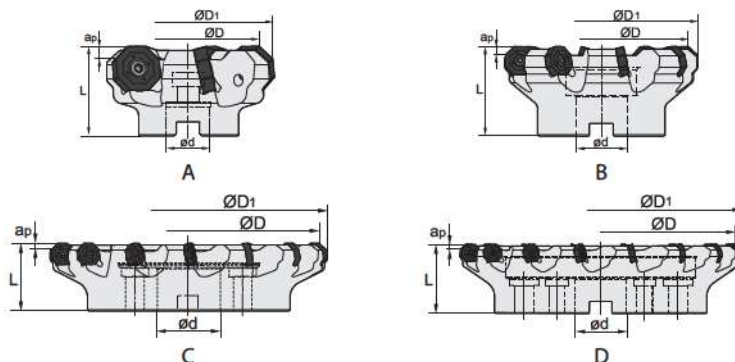
HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

| | |
|----------|---------------------|
| A | Tornear |
| B | Fresado |
| C | Taladrar |
| D | Información técnica |
| E | Índice |



A
Fresa para planear

Tornear

FMA07 Kr: 45°

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|---|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|------|----------|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMA07-050-A22-ON06-05 | | ● | ○ | 50 | 62 | 22 | 40 | 4 | 5 | A | 0,3 | ONHU0604 |
| FMA07-050-A22-ON06-05C | * | ● | | 50 | 62 | 22 | 40 | 4 | 5 | A | 0,3 | |
| FMA07-063-A22-ON06-06 | | | ○ | 63 | 75 | 22 | 40 | 4 | 6 | A | 0,5 | |
| FMA07-063-A22-ON06-06C | * | ● | | 63 | 75 | 22 | 40 | 4 | 6 | A | 0,5 | |
| FMA07-080-A27-ON06-07C | * | ● | | 80 | 92 | 27 | 50 | 4 | 7 | A | 1 | |
| FMA07-080-B27-ON06-07 | | ● | | 80 | 92 | 27 | 50 | 4 | 7 | B | 1 | |
| FMA07-100-B32-ON06-08 | | ● | | 100 | 112 | 32 | 63 | 4 | 8 | B | 1,9 | |
| FMA07-100-B32-ON06-08C | * | ● | | 100 | 112 | 32 | 63 | 4 | 8 | B | 1,9 | |
| FMA07-125-B40-ON06-09 | | ● | | 125 | 137 | 40 | 63 | 4 | 9 | B | 3,5 | |
| FMA07-125-B40-ON06-09C | * | ● | | 125 | 137 | 40 | 63 | 4 | 9 | B | 3,5 | |
| FMA07-160-C40-ON06-11 | | | ○ | 160 | 172 | 40 | 63 | 4 | 11 | C | 4,3 | |
| FMA07-200-C60-ON06-13 | | | ○ | 200 | 212 | 60 | 63 | 4 | 13 | C | 6,4 | |
| FMA07-250-C60-ON06-15 | | | ○ | 250 | 262 | 60 | 63 | 4 | 15 | C | 13,4 | |
| FMA07-315-D60-ON06-17 | | | ○ | 315 | 327 | 60 | 80 | 4 | 17 | D | 21,9 | |
| FMA07-063-A22-ON08-05 | | ● | | 63 | 78 | 22 | 40 | 5 | 5 | A | 0,5 | |
| FMA07-063-A22-ON08-05C | * | ● | | 63 | 78 | 22 | 40 | 5 | 5 | A | 0,5 | |
| FMA07-080-A27-ON08-06C | * | ● | | 80 | 95 | 27 | 50 | 5 | 6 | A | 0,9 | |
| FMA07-080-B27-ON08-06 | | ● | ○ | 80 | 95 | 27 | 50 | 5 | 6 | B | 0,9 | |
| FMA07-100-B32-ON08-07 | | ● | | 100 | 115 | 32 | 63 | 5 | 7 | B | 1,8 | |
| FMA07-100-B32-ON08-07C | * | ● | | 100 | 115 | 32 | 63 | 5 | 8 | B | 3,1 | |
| FMA07-125-B40-ON08-08 | | ● | ○ | 125 | 140 | 40 | 63 | 5 | 8 | B | 3,1 | |
| FMA07-125-B40-ON08-08C | * | ● | | 125 | 140 | 40 | 63 | 5 | 8 | B | 3,1 | |
| FMA07-160-C40-ON08-10 | | ● | ○ | 160 | 175 | 40 | 63 | 5 | 10 | C | 4,1 | |
| FMA07-200-C60-ON08-12 | | ● | ○ | 200 | 215 | 60 | 63 | 5 | 12 | C | 6,1 | |
| FMA07-250-C60-ON08-14 | | ● | ○ | 250 | 265 | 60 | 63 | 5 | 14 | C | 12 | |
| FMA07-315-D60-ON08-16 | | ● | ○ | 315 | 330 | 60 | 80 | 5 | 16 | D | 21 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

A

Tornear

B

Fresado

C

Taladrar




D


Información técnica

E




Índice

Piezas de recambio

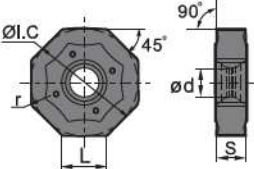

















| | Placa | ONHU0604 | ONHU08T5 |
|---|------------------|----------------------|----------------------|
| | ØD | 50- 315 | 63- 315 |
|  | Tornillo (placa) | I60M4*10 (3,4 Nm) | I60M5*13 (6,7 Nm) |
|  | Llave (placa) | WT15IS | |
|  | Llave (placa) | | WT20IT |



Placa de fresado

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| ONHU | L | I.C | S | d |
|--------------|------|--------|------|-----|
| 06 04 | 6,58 | 15,875 | 4,76 | 4,4 |
| 08 T5 | 8,39 | 20,2 | 5,77 | 5,3 |

| Placa de fresado ON** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|---|---------------|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|-------|-------|
| | | P | M | K | N | S | H | P | M | K | N | S | H | P | M | K | N | S | H | | | | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  | | | | | | | | | |
| | ISO | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |
|  | ONHU060408-PF | 0,8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
|  | ONHU08T508-PF | 0,8 | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
|  | ONHU060408-PM | 0,8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
|  | ONHU08T508-PM | 0,8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

● Desde el almacén ○ Bajo pedido

- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

A

Notas

Tornear

B

Fresado

C

Taladrar

D

Información
técnica

E

Índice

Series of horizontal dotted lines for notes, organized into sections A through E.



FMA11 Kr: 45°

Novedosa generación de fresas para planear

- Placas intercambiables de doble cara extra gruesas con 8 filos de corte.
- El gran ángulo de desprendimiento reduce las fuerzas de corte.
- Para grandes profundidades de desprendimiento para una alta seguridad frente a la rotura.
- Geometría Wiper para la mejor superficie de acabado.

Tipos de placa

| | | |
|---------------------------------|--|--|
| YBC302 CVD P15-P35 | YBM253 CVD P20-P40 | YBD152 CVD K05-K25 |
| YBD252 CVD K15-K35 | YBG205 PVD P10-P30 M20-M30 | YB9320 PVD P15-P25 M20-M30 |

Rompevirutas

| | |
|--|--|
| -GM  • Mecanizado general | -GR  • Filo de corte estable |
| -E  • Hélice puntiaguda • Primera opción para acero inoxidable | -W  • Geometría Wiper para superficies de acabado de máxima calidad |



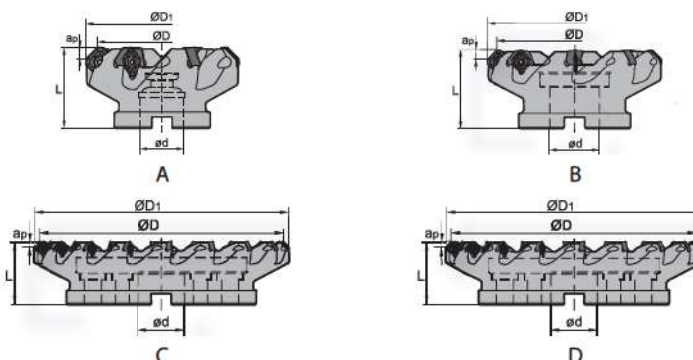
8 filos de corte

Tamaños de placa



A
Fresa para planear

Tornear

FMA11 Kr: 45°

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

| Artículo | * | Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|-----|---------|------------------|-----------------|----|----|--------------------|---------|-------------|-------|----------|
| | | | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMA11-063-A22-SN12-05 | ● | | 63 | 74,47 | 22 | 40 | 5,5 | 5 | A | 0,55 | SNEG1205 |
| FMA11-063-A22-SN12-06 | ● | | 63 | 74,47 | 22 | 40 | 5,5 | 6 | A | 0,58 | |
| FMA11-080-A27-SN12-06 | ● | | 80 | 91,47 | 27 | 50 | 5,5 | 6 | A | 1,14 | |
| FMA11-100-B32-SN12-07 | ● | | 100 | 111,47 | 32 | 50 | 5,5 | 7 | B | 1,42 | |
| FMA11-100-B32-SN12-07C | * ○ | | 100 | 111,47 | 32 | 50 | 5,5 | 7 | B | 1,42 | |
| FMA11-100-B32-SN12-10C | * ● | | 100 | 111,47 | 32 | 50 | 5,5 | 10 | B | 1,42 | |
| FMA11-125-B40-SN12-08 | ● | | 125 | 136,47 | 40 | 63 | 5,5 | 8 | B | 2,86 | |
| FMA11-125-B40-SN12-08C | * ○ | | 125 | 136,47 | 40 | 63 | 5,5 | 8 | B | 2,86 | |
| FMA11-125-B40-SN12-12C | * ● | | 125 | 136,47 | 40 | 63 | 5,5 | 12 | B | 2,86 | |
| FMA11-160-C40-SN12-10 | ● | | 160 | 171,47 | 40 | 63 | 5,5 | 10 | C | 4,06 | |
| FMA11-160-C40-SN12-15 | ● | | 160 | 171,47 | 40 | 63 | 5,5 | 15 | C | 4,06 | |
| FMA11-200-C60-SN12-14 | ● | | 200 | 212,08 | 60 | 63 | 5,5 | 14 | C | 6,89 | |
| FMA11-063-A22-SN15-05 | ● | | 63 | 77,4 | 22 | 40 | 7 | 5 | A | 0,56 | |
| FMA11-080-A27-SN15-06 | ● | | 80 | 94,4 | 27 | 50 | 7 | 6 | A | 1,06 | |
| FMA11-100-B32-SN15-07 | ● | | 100 | 114,4 | 32 | 50 | 7 | 7 | B | 1,47 | |
| FMA11-100-B32-SN15-07C | * ○ | | 100 | 114,4 | 32 | 50 | 7 | 7 | B | 1,47 | |
| FMA11-100-B32-SN15-09C | * ● | | 100 | 114,4 | 32 | 50 | 7 | 9 | B | 1,47 | |
| FMA11-125-B40-SN15-08 | ● | | 125 | 139,4 | 40 | 63 | 7 | 8 | B | 2,7 | |
| FMA11-125-B40-SN15-08C | * ○ | | 125 | 139,4 | 40 | 63 | 7 | 8 | B | 2,7 | |
| FMA11-125-B40-SN15-10C | * ● | | 125 | 140,25 | 40 | 63 | 7 | 10 | B | 3,1 | |
| FMA11-160-C40-SN15-10 | ● | | 160 | 174,4 | 40 | 63 | 7 | 10 | C | 3,92 | |
| FMA11-160-C40-SN15-13 | ● | | 160 | 175,25 | 40 | 63 | 7 | 13 | C | 4,14 | |
| FMA11-200-C60-SN15-12 | ● | | 200 | 214,4 | 60 | 63 | 7 | 12 | C | 5,46 | |
| FMA11-250-C60-SN15-14 | ● | | 250 | 264,4 | 60 | 63 | 7 | 14 | C | 11,26 | |
| FMA11-315-D60-SN15-18 | ○ | | 315 | 329,4 | 60 | 80 | 7 | 18 | D | 20 | |
| FMA11-125-B40-SN19-07 | ● | | 125 | 142,63 | 40 | 63 | 9 | 7 | B | 3 | |
| FMA11-125-B40-SN19-07C | * ● | | 125 | 142,63 | 40 | 63 | 9 | 7 | B | 3 | |
| FMA11-160-C40-SN19-09 | ● | | 160 | 167,63 | 40 | 63 | 9 | 9 | C | 4,25 | |
| FMA11-200-C60-SN19-11 | ● | | 200 | 217,63 | 60 | 63 | 9 | 11 | C | 6,18 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

A

Tornear

B

Fresado

C


Taladrar

D

Información técnica

E




Índice


| Artículo | * Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa  |
|-----------------------|-----------|------------------|-----------------|----|----|--------------------|---------|-------------|-------|--|
| | | ØD | ØD ₁ | ød | L | a _{p,max} | | | | |
| FMA11-250-C60-SN19-13 | ● | 250 | 267,63 | 60 | 63 | 9 | 13 | C | 11,55 | SNEG1907 |
| FMA11-315-D60-SN19-16 | ○ | 315 | 332,63 | 60 | 80 | 9 | 16 | D | 20,9 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

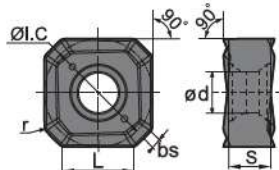






| | Placa | SNEG1205 | SNEG1506 | SNEG1907 |
|---|------------------|------------------------|----------------------|----------------------|
| | ØD | 63-200 | 63-315 | 125-315 |
|  | Tornillo (placa) | I60M3.5*10 (2,7 Nm) | I60M5*13 (6,7 Nm) | I43M6*16 (9,1 Nm) |
|  | Llave (placa) | WT15IS | | |
|  | Llave (placa) | | WT20IT | WT25IT |



Placa de fresado

- Buenas condiciones de mecanizado
- ⊗ Condiciones normales de mecanizado
- ⊗ Condiciones desfavorables

| SNEG | L | I.C | S | d |
|-------|------|-----|------|-----|
| 12 05 | 7,6 | 12 | 4,76 | 4,6 |
| 15 06 | 9,4 | 15 | 5,6 | 5,5 |
| 19 07 | 12,1 | 19 | 7 | 7,2 |

| Placa negativa SN** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | HT | HC ² | HW | | | | | | | | | | | |
|---|----------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | | P | M | K | N | S | H | | | | | | | | | | | | | | | | | |
| ISO | r | bs | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | SNEG1506ANR-E | 0,9 | 1,3 | | | | | | | | | | | ● | | | | | | | | | | |
|  | SNEG1205ANR-GM | 0,8 | 1,05 | ● | ● | ● | | | | | | | ● | | | | | | | | | | | |
|  | SNEG1506ANR-GM | 0,9 | 1,3 | ● | ● | ● | | | | | | | ● | | | | | | | | | | | |
|  | SNEG1205ANR-GR | 0,8 | 1,05 | ● | ● | ● | | | | | | | | | | | | | | | | | | |
|  | SNEG1506ANR-GR | 0,9 | 1,3 | ● | ● | ● | | | | | | | | | | | | | | | | | | |
|  | SNEG1907ANR-GR | 1 | 1,67 | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | |




● Desde el almacén ○ Bajo pedido

- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

Fresa de placas intercambiables Fresa para planear

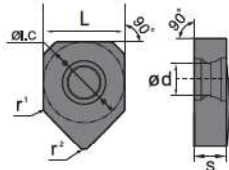







































A

Tornear

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | | |
|-------|----|-----|------|-----|
| SNEG | L | I.C | S | d |
| 12 05 | 12 | 12 | 4,76 | 4,6 |

Placa de fresado

| Placa negativa SN** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | |
|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P |  |  |  |  |  |  |  |  |  |  |  |  | | | | | | | | | | | |
| | M |  |  |  |  |  |  |  |  |  |  |  |  | | | | | | | | | | | |
| | K | | | | |  |  | |  |  | | | |  | | | | | | | | | | |
| | N | | | | | |  | | | | | | |  |  | | | | | | | | | |
| | S | |  |  | | | |  |  |  |  | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| ISO | r1 | r2 | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  SNEG1205ANR-W | 0,6 | 0,8 | | | | | | | | | | | | ● | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parámetros > B224

FMA12^{Kr: 45°}

Fresa para planear

- Elevado factor coste-beneficio gracias a 16 filos de corte.
- Rompevirutas tridimensionales para materiales tenaces.
- Corte blando gracias a la geometría de corte positiva y puntiaguda.

Tipos de placa

| | | | |
|---------------|---------------|---------------|---------------|
| YBM253 | YBG205 | YBD152 | YBD252 |
| CVD | PVD | CVD | CVD |
| P20-P40 | P10-P30 | K05-K25 | K15-K35 |
| M10-M30 | M10-M30 | | |

Rompevirutas

-GM

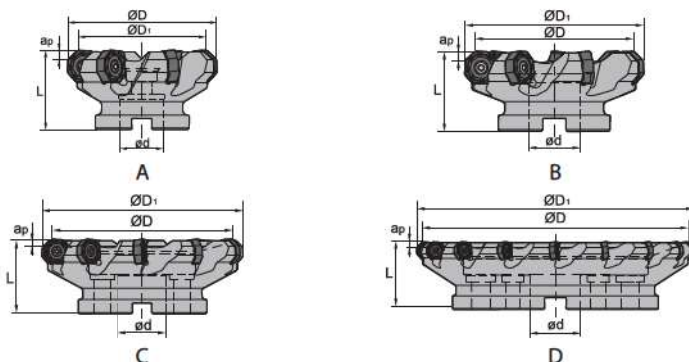


16 filos de corte



A
Fresa para planear
FMA12 Kr: 45°


Tornear


B

Fresado

C

Taladrar

D

Información técnica

E

Índice

| Artículo | * Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|-----------|------------------|-----------------|----|----|--------------------|---------|-------------|-------|----------|
| | | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMA12-063-A22-ON08-05 | ● | 63 | 78 | 22 | 50 | 5 | 5 | A | 0,6 | ONHU08T6 |
| FMA12-080-A27-ON08-06 | ○ | 80 | 95 | 27 | 50 | 5 | 6 | A | 0,97 | |
| FMA12-100-B32-ON08-07 | ● | 100 | 115 | 32 | 50 | 5 | 7 | B | 1,28 | |
| FMA12-100-B32-ON08-07C | * ● | 100 | 115 | 32 | 50 | 5 | 7 | B | 1,28 | |
| FMA12-125-B40-ON08-08 | ● | 125 | 140 | 40 | 63 | 5 | 8 | B | 2,59 | |
| FMA12-125-B40-ON08-08C | * ● | 125 | 140 | 40 | 63 | 5 | 8 | B | 2,59 | |
| FMA12-160-C40-ON08-10 | ● | 160 | 175 | 40 | 63 | 5 | 10 | C | 4,1 | |
| FMA12-200-C60-ON08-12 | ● | 200 | 215 | 60 | 63 | 5 | 12 | C | 5,68 | |
| FMA12-250-C60-ON08-14 | ○ | 250 | 265 | 60 | 63 | 5 | 14 | C | 11,9 | |
| FMA12-315-D60-ON08-18 | ○ | 315 | 330 | 60 | 80 | 5 | 18 | D | 20,41 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

| | Placa | ONHU08T6 | |
|--|------------------|----------------------|--|
| | ØD | 63-315 | |
| | Tornillo (placa) | I60M5*13 (6,7 Nm) | |
| | Llave (placa) | WT20IT | |

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|--------------|------|------|-----|-----|
| ONHU | L | I.C | S | d |
| 08 T6 | 6,38 | 20,2 | 6,3 | 5,3 |

Placa de fresado

| Placa de fresado ON** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|----------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| ONHU08T624R-GM | 2,4 | | | ● | | ○ | | | | | | ○ | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A
Tornear
B
Fresado
C
Taladrar
D
Información técnica
E
Índice

A

Tornear

Notas

B

Fresado

C

Taladrar

D

Información
técnica

E

Índice

Series of horizontal dotted lines for notes, organized into sections A through E.



FMD02 Kr: 67°

Fresa para planear

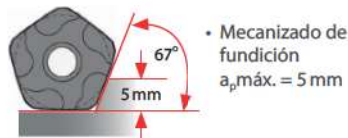
- Placas intercambiables de corte blando gracias a rompevirutas en forma de cavidades.
- Bisel Wiper para la máxima calidad de superficie.
- Gran variedad de placas con 6 rompevirutas diferentes.
- Soporte de herramienta disponible con paso ancho, normal y estrecho (sujeción en cuña).

Tipos de placa

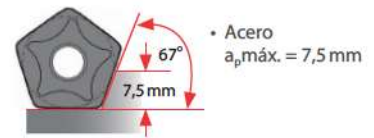
| | | | |
|----------------|----------------|----------------|----------------|
| YBC302 | YBM253 | YBD152 | YBD252 |
| CVD P15-P35 | CVD P10-P40 | CVD K05-K25 | CVD K15-K35 |

Rompevirutas

-CF -CM -CR



-PF -PM -PR



2 x 5 filos de corte



• Ángulo de ajuste Kr = 67°



• Sistema de sujeción de tornillos



• Sujeción de cuña de apriete



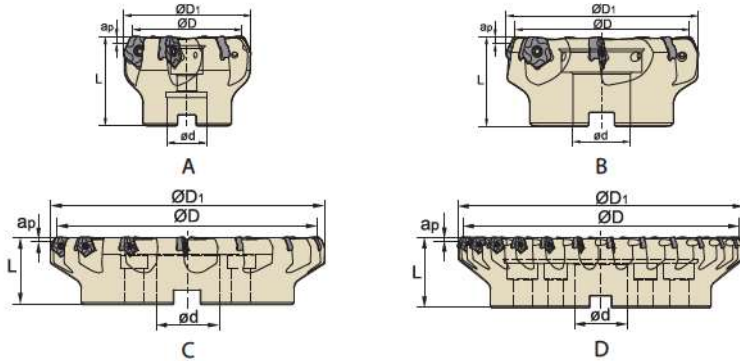
• Wiper



A

Fresa para planear

FMD02 Kr: 67°



Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|---|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|------|----------|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMD02-050-A22-PN11-04 | | ● | ○ | 50 | 60,1 | 22 | 50 | 5 | 4 | A | 0,6 | PNEG1105 |
| FMD02-050-A22-PN11-04C | * | ○ | | 50 | 60,1 | 22 | 50 | 5 | 4 | A | 0,6 | |
| FMD02-050-A22-PN11-05 | | ● | | 50 | 60,1 | 22 | 50 | 5 | 5 | A | 0,6 | |
| FMD02-050-A22-PN11-05C | * | ● | | 50 | 60,1 | 22 | 50 | 5 | 5 | A | 0,6 | |
| FMD02-063-A22-PN11-05 | | ● | ○ | 63 | 73,1 | 22 | 50 | 5 | 5 | A | 0,8 | |
| FMD02-063-A22-PN11-05C | * | ○ | | 63 | 73,1 | 22 | 50 | 5 | 5 | A | 0,8 | |
| FMD02-063-A22-PN11-06 | | ● | | 63 | 73,1 | 22 | 50 | 5 | 6 | A | 0,9 | |
| FMD02-063-A22-PN11-06C | * | ● | | 63 | 73,1 | 22 | 50 | 5 | 6 | A | 0,9 | |
| FMD02-080-A27-PN11-06 | | ● | | 80 | 90,1 | 27 | 50 | 5 | 6 | A | 1,1 | |
| FMD02-080-A27-PN11-08 | | ● | | 80 | 90,1 | 27 | 50 | 5 | 8 | A | 1,2 | |
| FMD02-080-A27-PN11-08C | * | ● | | 80 | 90,1 | 27 | 50 | 5 | 8 | A | 1,2 | |
| FMD02-100-B32-PN11-07 | | ● | | 100 | 110,1 | 32 | 50 | 5 | 7 | B | 1,8 | |
| FMD02-100-B32-PN11-07C | * | ○ | | 100 | 110,1 | 32 | 50 | 5 | 7 | B | 1,8 | |
| FMD02-100-B32-PN11-10 | | ● | | 100 | 110,1 | 32 | 50 | 5 | 10 | B | 1,9 | |
| FMD02-100-B32-PN11-10C | * | ○ | | 100 | 110,1 | 32 | 50 | 5 | 10 | B | 1,9 | |
| FMD02-125-B40-PN11-08 | | ● | ● | 125 | 135,1 | 40 | 63 | 5 | 8 | B | 2,9 | |
| FMD02-125-B40-PN11-08C | * | ○ | | 125 | 135,1 | 40 | 63 | 5 | 8 | B | 2,9 | |
| FMD02-125-B40-PN11-12 | | ● | ○ | 125 | 135,1 | 40 | 63 | 5 | 12 | B | 3,2 | |
| FMD02-125-B40-PN11-12C | * | ○ | | 125 | 135,1 | 40 | 63 | 5 | 12 | B | 3,2 | |
| FMD02-160-B40-PN11-10 | | ● | ○ | 160 | 170,1 | 40 | 63 | 5 | 10 | B | 5,6 | |
| FMD02-160-B40-PN11-14 | | ● | ○ | 160 | 170,1 | 40 | 63 | 5 | 14 | B | 6,4 | |
| FMD02-200-C60-PN11-12 | | ○ | ○ | 200 | 210,1 | 60 | 63 | 5 | 12 | C | 7,9 | |
| FMD02-200-C60-PN11-16 | | ● | | 200 | 210,1 | 60 | 63 | 5 | 16 | C | 8,5 | |
| FMD02-200-C60-PN11-20 | | ○ | | 200 | 210,1 | 60 | 63 | 5 | 20 | C | 8,5 | |
| FMD02-200-C60-PN11-24 | | ● | | 200 | 210,1 | 60 | 63 | 5 | 24 | C | 8,6 | |
| FMD02-250-C60-PN11-14 | | ○ | | 250 | 260,1 | 60 | 63 | 5 | 14 | C | 13,4 | |
| FMD02-250-C60-PN11-18 | | ● | ○ | 250 | 260,1 | 60 | 63 | 5 | 18 | C | 18 | |
| FMD02-250-C60-PN11-30 | | ○ | | 250 | 260,1 | 60 | 63 | 5 | 30 | C | 13,5 | |
| FMD02-315-D60-PN11-26 | | ○ | ○ | 315 | 325,1 | 60 | 80 | 5 | 26 | D | 24,5 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

A

Tornear

B

Fresado

C

Taladrar




D




Información técnica

E

Índice

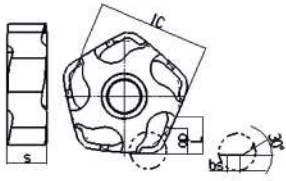



Piezas de recambio

| | Placa | PNEG1105 |  |
|---|------------------|----------------------|---|
| | ØD | 50-315 | |
|  | Tornillo (placa) | I60M4*10 (3,4 Nm) | |
|  | Llave (placa) | WT151S | |

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| PNEG | L | I.C | S | d |
|-------|-----|--------|------|------|
| 11 05 | 5,4 | 15,875 | 5,56 | 4,64 |

Placa de fresado

| Placa de fresado PN** | | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | |
|---|----------------|-----|-----------------------|---|----------------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | ISO | bs | a _p max | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | | | |  | PNEG110512L-CF | 1,6 | 5 | | | | | | | | | | | | | | | | | |
| | PNEG110512R-CF | 1,6 | 5 | | | | | | | ● | | | | | | | | | | | | | | |
|  | PNEG110512L-CM | 1,6 | 5 | | | | | | | ○ | | | | | | | | | | | | | | |
| | PNEG110512R-CM | 1,6 | 5 | | | | | | | ● | | | | | | | | | | | | | | |
|  | PNEG110512L-CR | 1,6 | 5 | | | | | | | ○ ○ | | | | | | | | | | | | | | |
| | PNEG110512R-CR | 1,6 | 5 | | | | | | | ● ● | | | | | | | | | | | | | | |




● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

Fresa de placas intercambiables Fresa para planear

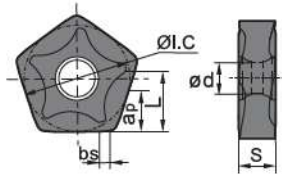
A







Tornear

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | | |
|-------|-----|--------|------|------|
| PNEG | L | I.C | S | d |
| 11 05 | 7,5 | 15,875 | 5,56 | 4,64 |

Placa de fresado



| Placa de fresado PN** | | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | | |
|-----------------------|---|----------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--|---------|-------|-------|
| | | | P | M | K | N | S | H | | | | | | | | | | | | | | | | | |
| ISO | | bs | a _p max | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | | YNG151C | YD101 | YD201 |
| |  | PNEG110512L-PF | 1,6 | 7,5 | ○ | | | | | | | | | | | | | | | | | | | | |
| |  | PNEG110512R-PF | 1,6 | 7,5 | ○ | ○ | | | | | | | | | | | | | | | | | | | |
| |  | PNEG110512L-PM | 1,6 | 7,5 | ○ | ○ | | | | | | | | | | | | | | | | | | | |
| |  | PNEG110512R-PM | 1,6 | 7,5 | ● | ● | | | | | | | | | | | | | | | | | | | |
| |  | PNEG110512L-PR | 1,6 | 7,5 | ○ | ● | | | | | | | | | | | | | | | | | | | |
| |  | PNEG110512R-PR | 1,6 | 7,5 | ○ | ● | | | | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Código de sistema > B26

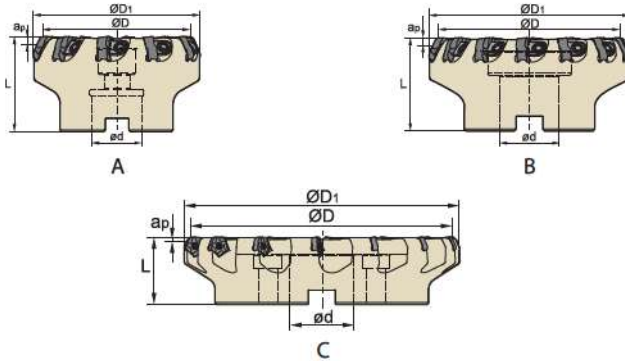
Selección de tipos > B24



Información técnica > B463

Parametros > B224

Fresa para planear

FMD02 Kr: 67° 







| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento |  kg | Placa  |
|-----------------------|---|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|--|---|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMD02-080-A27-PN11-10 | ● | | | 80 | 90,1 | 27 | 50 | 5 | 10 | A | 1,3 | PNEG1105 |
| FMD02-100-B32-PN11-14 | ● | ○ | | 100 | 110,1 | 32 | 50 | 5 | 14 | B | 1,6 | |
| FMD02-125-B40-PN11-18 | ● | | | 125 | 135,1 | 40 | 63 | 5 | 18 | B | 3,2 | |
| FMD02-160-B40-PN11-22 | ● | | | 160 | 170,1 | 40 | 63 | 5 | 22 | B | 5,8 | |
| FMD02-200-C60-PN11-28 | ○ | ○ | | 200 | 210,1 | 60 | 63 | 5 | 28 | C | 8,5 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

| | Placa | PNEG1105 |  |
|---|-----------------|---------------------|---|
| | ØD | 80-200 | |
|  | Tornillo (cuña) | DM6*20A (7,0 Nm) | |
|  | Cuña | W18N | |
|  | Llave (cuña) | WT15IT | |

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Fresa de placas intercambiables Fresa para planear

A

Tornear

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|-------|-----|--------|------|------|
| PNEG | L | I.C | S | d |
| 11 05 | 5,4 | 15,875 | 5,56 | 4,64 |

Placa de fresado

| Placa de fresado PN** | | | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | | |
|-----------------------|----------------|----------------|--------------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|--|
| | | P | M | K | N | S | H | P | M | K | N | S | H | | | | | | | | | | | | | |
| | ISO | bs | a _p max | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | | |
| | | PNEG110512L-CF | 1,6 | 5 | | | | | | | ○ | | | | | | | | | | | | | | | |
| | | PNEG110512R-CF | 1,6 | 5 | | | | | | | ● | | | | | | | | | | | | | | | |
| | | PNEG110512L-CM | 1,6 | 5 | | | | | | | ○ | | | | | | | | | | | | | | | |
| | | PNEG110512R-CM | 1,6 | 5 | | | | | | | ● | | | | | | | | | | | | | | | |
| | | PNEG110512L-CR | 1,6 | 5 | | | | | | | ○ ○ | | | | | | | | | | | | | | | |
| | PNEG110512R-CR | 1,6 | 5 | | | | | | | ● ● | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

B

Fresado

C

Taladrar

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|-------|-----|--------|------|------|
| PNEG | L | I.C | S | d |
| 11 05 | 7,5 | 15,875 | 5,56 | 4,64 |

Placa de fresado

| Placa de fresado PN** | | | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|-----|----------------|--------------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | | P | M | K | N | S | H | P | M | K | N | S | H | | | | | | | | | | | | |
| | ISO | bs | a _p max | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | | PNEG110512L-PF | 1,6 | 7,5 | ○ | | | | | | | | | | | | | | | | | | | | |
| | | PNEG110512R-PF | 1,6 | 7,5 | ○ | ○ | | | | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

D

Información técnica

E




Índice

Código de sistema > B26

Selección de tipos > B24

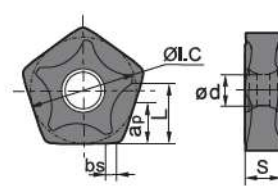

Información técnica > B463

Parametros > B224

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | | |
|-------|-----|--------|------|------|
| PNEG | L | I.C | S | d |
| 11 05 | 7,5 | 15,875 | 5,56 | 4,64 |

Placa de fresado

| Placa de fresado PN** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | | |
|---|---|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | | P | M | K | N | S | H | | | | | | | | | | | | | | | | | | |
|  | ISO | bs | ap max | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| |  | PNEG110512L-PM | 1,6 | 7,5 | ○ | ○ | | | | | | | | | | | | | | | | | | | |
| | PNEG110512R-PM | 1,6 | 7,5 | ● | ● | | | | | | | | | | | | | | | | | | | | |
| | PNEG110512L-PR | 1,6 | 7,5 | ○ | ● | | | | | | | | | | | | | | | | | | | | |
| | PNEG110512R-PR | 1,6 | 7,5 | ○ | ● | | | | | | | | | | | | | | | | | | | | |

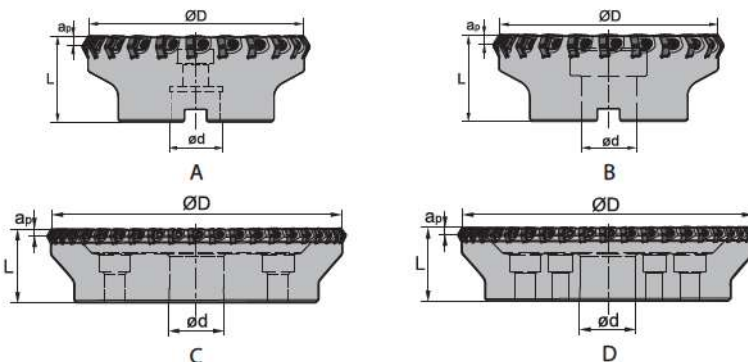
● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A
 Tornear
B
 Fresado
C
 Taladrar
D
 Información técnica
E
 Índice

A
Fresa para planear
FMD02 Kr: 55°


Tornear


B

Fresado

C

Taladrar

D

Información técnica

E

Índice




| Artículo | * | Almacén | | Dimensiones [mm] | | | | Dientes | Alojamiento | kg | Placa |
|-----------------------|-----|---------|---|------------------|----|----|--------|---------|-------------|------|----------|
| | | R | L | ØD | ød | L | ap max | | | | |
| FMD02-080-A27-HN09-08 | ○ | | | 80 | 27 | 50 | 6 | 8 | A | 1,19 | HNEX0905 |
| FMD02-100-B32-HN09-10 | ○ | | | 100 | 32 | 50 | 6 | 10 | B | 1,77 | |
| FMD02-125-B40-HN09-14 | ○ | | | 125 | 40 | 63 | 6 | 14 | B | 3,55 | |
| FMD02-125-B40-HN09-18 | ○ | | | 125 | 40 | 63 | 6 | 18 | B | 3,7 | |
| FMD02-160-B40-HN09-18 | ● | | | 160 | 40 | 63 | 6 | 18 | B | 5,62 | |
| FMD02-160-B40-HN09-22 | ○ | | | 160 | 40 | 63 | 6 | 22 | B | 5,6 | |
| FMD02-200-C60-HN09-22 | ○ | | | 200 | 60 | 63 | 6 | 22 | C | 6,7 | |
| FMD02-250-C60-HN09-28 | ○ ○ | | | 250 | 60 | 63 | 6 | 28 | C | 13 | |
| FMD02-315-D60-HN09-44 | ○ | | | 315 | 60 | 63 | 6 | 44 | D | 21,7 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

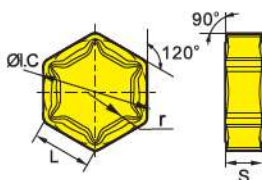


Piezas de recambio

| | Placa | HNEX0905 | |
|--|-----------------|---------------------|--|
| | ØD | 80-315 | |
| | Tornillo (cuña) | DM6*20A (7,0 Nm) | |
| | Cuña | W18N | |
| | Llave (cuña) | WT15IT | |

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | |
|-------|------|--------|------|
| HNEX | L | I.C | S |
| 09 05 | 9,16 | 15,875 | 5,56 |

Placa de fresado

| Placa de fresado HN** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | | | HT | HC ² | HW | | | | | | | |
|---|----------------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | HNEX090512-DM | 1,2 | | | | | | ○ ○ | | | | | | | | | | | | | | | |
|  | HNEX090512-DR | 1,2 | | | | | | ● ● | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A
Tornear
B
Fresado
C
Taladrar
D
Información técnica
E
Índice

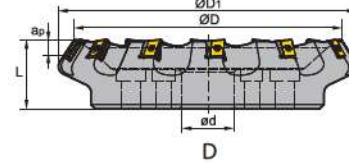
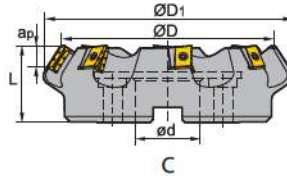
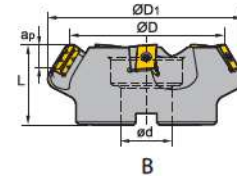
A

Fresa para planear

FMD03 Kr: 60°



Tornear



B

Fresado

C

Taladrar

D

Información técnica

E

Índice

| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|-----------------------|-----|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|------|-------------|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FMD03-100-B32-LN20-05 | ○ | | | 100 | 129 | 32 | 63 | 12 | 5 | B | 3,02 | LNKT2007-ZR |
| FMD03-125-B40-LN20-06 | ● | | | 125 | 153 | 40 | 63 | 12 | 6 | B | 4,5 | |
| FMD03-160-C40-LN20-08 | ● | | | 160 | 187 | 40 | 63 | 12 | 8 | C | 6,9 | |
| FMD03-160-C40-LN20-09 | ○ | | | 160 | 187 | 40 | 63 | 12 | 9 | C | 6,7 | |
| FMD03-200-C60-LN20-10 | ● | | | 200 | 227 | 60 | 70 | 12 | 10 | C | 10,5 | |
| FMD03-250-C60-LN20-12 | ● | | | 250 | 276 | 60 | 70 | 12 | 12 | C | 13,4 | |
| FMD03-315-D60-LN20-15 | ○ | | | 315 | 339 | 60 | 80 | 12 | 15 | D | 26,2 | LNKT2510-ZR |
| FMD03-125-B40-LN25-05 | ○ | | | 125 | 154 | 40 | 63 | 16 | 5 | B | 4,5 | |
| FMD03-160-C40-LN25-06 | ● | | | 160 | 189 | 40 | 63 | 16 | 6 | C | 6,9 | |
| FMD03-200-C60-LN25-08 | ● | | | 200 | 229 | 60 | 70 | 16 | 8 | C | 10,5 | |
| FMD03-250-C60-LN25-10 | ● | | | 250 | 278 | 60 | 70 | 16 | 10 | C | 16,7 | |
| FMD03-315-D60-LN25-12 | ○ ○ | | | 315 | 346 | 60 | 80 | 16 | 12 | D | 27,3 | |
| FMD03-400-D60-LN25-16 | ○ ○ | | | 400 | 427 | 60 | 80 | 16 | 16 | D | 47,1 | |




● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

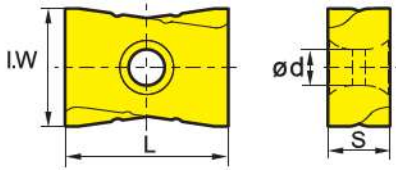

| | Placa | LNKT2007-ZR | LNKT2510-ZR |
|--|------------------|----------------------|----------------------|
| | ØD | 100- 315 | 125 -400 |
| | Tornillo (placa) | I60M4*15 (3,4 Nm) | I60M5*17 (6,7 Nm) |
| | Tornillo (base) | I60M3*7 | I60M3.5*10.4 |
| | Base | LLN20R-ZR | LLN25R-ZR |
| | Llave (placa) | WT15IS | |
| | Llave (placa) | | WT20IT |
| | Llave (base) | WT09IS | WT15IS |



-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| LNKT | L | S | d |
|-------|----|-------|-----|
| 20 07 | 20 | 7,94 | 4,6 |
| 25 10 | 25 | 9,525 | 5,5 |

Placa de fresado

| Placa de fresado LN** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | |
|---|---------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | I.W | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | LNKT2007DN-ZR | | | | ● | ● | ○ | | | | | | | | | ● | | | | | | | |
| | LNKT2510-ZR | | | | | ● | ● | | | | | | | | | ● | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

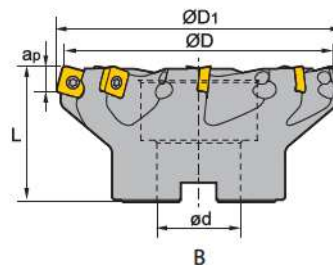
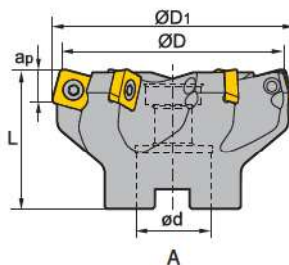
- A** Tornear
- B** Fresado
- C** Taladrar
- D** Información técnica
- E** Índice

A

Fresa para planear

FME02 Kr: 75°



Tornear


B

Fresado

C

Taladrar



| Artículo | * Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|-----------------------|-----------|------------------|-----------------|----|----|--------------------|---------|-------------|-----|---|
| | | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FME02-050-A22-SP12-04 | ● | 50 | 54 | 22 | 40 | 6 | 4 | A | 0,3 |  SPKT1204 SPKW1204 |
| FME02-063-A22-SP12-05 | ● | 63 | 66 | 22 | 50 | 6 | 5 | A | 0,6 | |
| FME02-080-A27-SP12-06 | ● | 80 | 83 | 27 | 50 | 6 | 6 | A | 0,9 | |
| FME02-100-B32-SP12-07 | ● | 100 | 103 | 32 | 50 | 6 | 7 | B | 1,4 | |
| FME02-125-B40-SP12-08 | ● | 125 | 128 | 40 | 63 | 6 | 8 | B | 2,5 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

D

Información técnica

| Piezas de recambio | | |
|---|------------------|------------------------|
| | Placa | SPKT1204 SPKW1204 |
| | ØD | 50-125 |
|  | Tornillo (placa) | I60M5*13.2 (6,7 Nm) |
|  | Llave (placa) | WT20IS |


E

Índice

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|-------|------|------|------|------|
| SPKW | L | I.C | S | d |
| 12 04 | 12,7 | 12,7 | 4,76 | 5,56 |

Placa de fresado

| Placa de fresado SP** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|--------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SPKW1204EDFR | | | | | | | | | | | | | ○ | | | | | | | | | |
| | SPKW1204EDSR | | | | | | | | | | | | | ● | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Placa de fresado

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|-------|------|------|------|------|
| SPKT | L | I.C | S | d |
| 12 04 | 12,7 | 12,7 | 4,76 | 5,56 |

| Placa de fresado SP** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|-------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SPKT1204EDR | | | | | | | | | | | | | ● | | | | | | | | | |

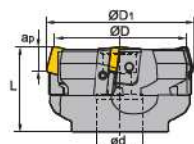
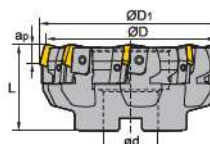
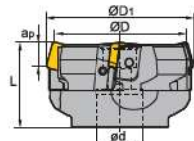
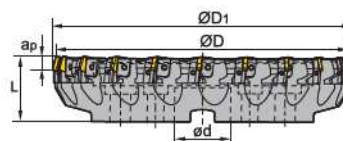
● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

Fresa para planear

A

Tornear

FME03 Kr: 75°

A

B

C

D
B

Fresado

C

Taladrar

D

 Información
técnica

E

Índice

| Artículo | * | Almacén | | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|-----------------------|---|---------|---|------------------|-----------------|----|----|--------------------|---------|-------------|------|----------------------------------|
| | | R | L | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FME03-080-A27-SP12-04 | ○ | | | 80 | 84 | 27 | 50 | 6 | 4 | A | 1,1 | SPKN1203 SPKR1203 SPEX1203 |
| FME03-100-B32-SP12-06 | ● | | | 100 | 104 | 32 | 50 | 6 | 6 | B | 1,9 | |
| FME03-125-B40-SP12-08 | ○ | ○ | | 125 | 129 | 40 | 63 | 6 | 8 | B | 3,5 | |
| FME03-160-B40-SP12-10 | ● | ○ | | 160 | 164 | 40 | 63 | 6 | 10 | B | 5,7 | |
| FME03-200-C60-SP12-12 | ○ | ○ | | 200 | 203 | 60 | 63 | 6 | 12 | C | 8,2 | |
| FME03-250-C60-SP12-16 | ○ | ○ | | 250 | 253 | 60 | 63 | 6 | 16 | C | 13,8 | |
| FME03-315-D60-SP12-20 | ○ | | | 315 | 318 | 60 | 70 | 6 | 20 | D | 23,5 | |
| FME03-080-A27-SP15-04 | ○ | ○ | | 80 | 84 | 27 | 50 | 8 | 4 | A | 1 | SPKN1504 SPKR1504 SPEX1504 |
| FME03-100-B27-SP15-06 | ○ | | | 100 | 104 | 27 | 50 | 8 | 6 | B | 1,8 | |
| FME03-125-B40-SP15-08 | ● | ○ | | 125 | 129 | 40 | 63 | 8 | 8 | B | 3,3 | |
| FME03-160-B40-SP15-10 | ○ | ○ | | 160 | 164 | 40 | 63 | 8 | 10 | B | 5,4 | |
| FME03-200-C60-SP15-12 | ○ | ○ | | 200 | 204 | 60 | 63 | 8 | 12 | C | 7,9 | |
| FME03-250-C60-SP15-16 | ○ | ○ | | 250 | 253 | 60 | 63 | 8 | 16 | C | 13,6 | |
| FME03-315-D60-SP15-20 | ○ | ○ | | 315 | 318 | 60 | 70 | 8 | 20 | D | 23,1 | |




● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Fresa de placas intercambiables Fresa para planear

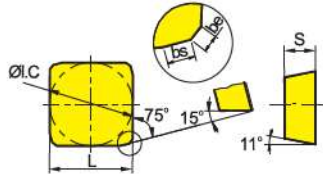
A

Tornear

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables



| SPKR | L | I.C | S |
|-------|--------|--------|------|
| 12 03 | 12,7 | 12,7 | 3,18 |
| 15 04 | 15,875 | 15,875 | 4,76 |

Placa de fresado

| Placa de fresado SP** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | HT | HC ² | HW | | | |
|---|----------|-----------------------|--|--|--|--|--|-----------------------|--|--|----|-----------------|----|--|--|--|
|  | P | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | |

B

Fresado

| ISO | | be | bs | | | | | | | | | | | | | | | |
|---|----------------|----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | SPKR1203EDL-GM | 1 | 1,4 | | | | | | | | | | | | | | | |
| | SPKR1203EDR-GM | 1 | 1,4 | | | | | | | | | | | | | | | |
| | SPKR1504EDR-GM | 1 | 1,4 | | | | | | | | | | | | | | | |
|  | SPKR1203EDR | 1 | 1,4 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

C

Taladrar

D

Información técnica

E

Índice

Código de sistema > B26

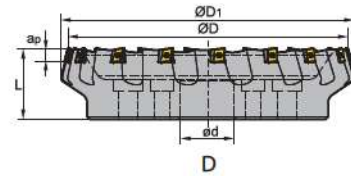
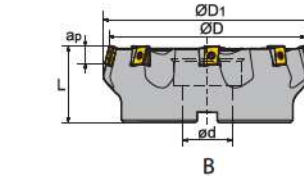
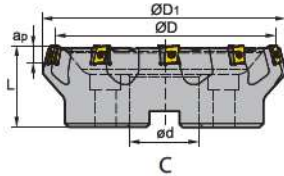
Selección de tipos > B24

Información técnica > B463

Parámetros > B224

Fresa para planear

FME04 Kr: 75°



| Artículo | * Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|-----------------------|-----------|------------------|-----------------|----|----|--------------------|---------|-------------|------|-------------|
| | | ØD | ØD ₁ | ød | L | a _{p max} | | | | |
| FME04-125-B40-LN15-06 | ● | 125 | 137 | 40 | 63 | 10 | 6 | B | 3,8 | LNKT1506-ZR |
| FME04-160-B40-LN15-08 | ● | 160 | 170 | 40 | 63 | 10 | 8 | C | 6,6 | |
| FME04-200-C60-LN15-10 | ● | 200 | 208 | 60 | 70 | 10 | 10 | C | 9,6 | |
| FME04-250-C60-LN15-12 | ○ | 250 | 257 | 60 | 70 | 10 | 12 | C | 13,4 | |
| FME04-315-D60-LN15-16 | ○ | 315 | 328 | 60 | 80 | 10 | 16 | D | 25,2 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

| | Placa | LNKT1506-ZR | |
|--|------------------|----------------------|--|
| | ØD | 125 - 315 | |
| | Tornillo (placa) | I60M4*12 (3,4 Nm) | |
| | Tornillo (base) | I60M3*7 | |
| | Base | LLN15-ZR | |
| | Llave (placa) | WT15IS | |
| | Llave (base) | WT09IS | |

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Fresa de placas intercambiables Fresa para planear

A

Tornear

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | |
|-------|--------|------|-----|
| LNKT | L | S | d |
| 15 06 | 15,875 | 6,35 | 4,6 |

Placa de fresado

| Placa de fresado LN** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | |
|-----------------------|----------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | |
| ISO | I.W | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| LNKT1506EN-ZR | 14 | ● | | | ○ | ● | ● | ● | | | | | | | ○ | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Código de sistema > B26

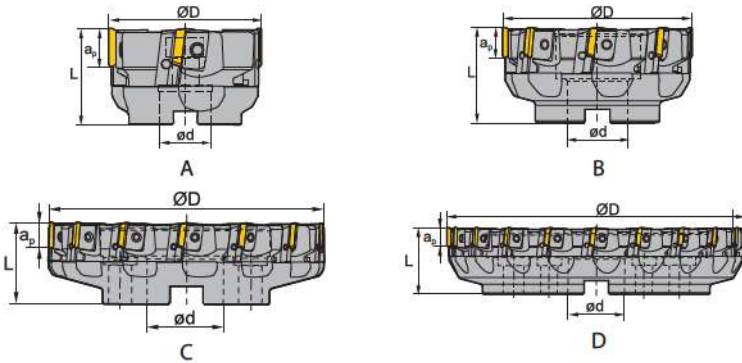
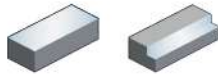
Selección de tipos > B24


Información técnica > B463

Parametros > B224

Fresa para planear

FMP01 Kr: 90°











| Artículo | * | Almacén | | Dimensiones [mm] | | | | Dientes | Alojamiento | kg | Placa  |
|-----------------------|---|---------|---|------------------|----|----|--------|---------|-------------|------|--|
| | | R | L | ØD | ød | L | ap max | | | | |
| FMP01-080-A27-TP22-04 | ● | | | 80 | 27 | 50 | 18 | 4 | A | 1,2 | TPKN2204 |
| FMP01-100-B32-TP22-06 | ● | | | 100 | 32 | 50 | 18 | 6 | B | 1,7 | |
| FMP01-125-B40-TP22-08 | ● | ○ | | 125 | 40 | 63 | 18 | 8 | B | 3,2 | |
| FMP01-160-B40-TP22-10 | ● | ○ | | 160 | 40 | 63 | 18 | 10 | B | 5,1 | |
| FMP01-200-C60-TP22-12 | ● | ○ | | 200 | 60 | 63 | 18 | 12 | C | 7,4 | |
| FMP01-250-C60-TP22-16 | ○ | ○ | | 250 | 60 | 63 | 18 | 16 | C | 12,3 | |
| FMP01-315-D60-TP22-20 | ○ | ○ | | 315 | 60 | 70 | 18 | 20 | D | 21,9 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

| | Placa | TPKN2204 | TPKN2204 |
|---|--------------------|-----------|-----------|
| | ØD | 80-100 | 125 - 315 |
|  | Tornillo de ajuste | LOM5*15.1 | LOM5*15.1 |
|  | Módulo (izquierdo) | LTP4L1 | LTP4L |
|  | Módulo (derecho) | LTP4R1 | LTP4R |
|  | Tornillo (cuña) | WM8*12 | WM8*22 |
|  | Cuña (izquierda) | W04L | W04L |
|  | Cuña (derecha) | W04R | W04R |
|  | | WT20T | WT20T |
|  | Llave (cuña) | WT25T | WT25T |



A

Tornear

B

Fresado

C

Taladrar

D

Información técnica




E

Índice

Fresa de placas intercambiables Fresa para planear

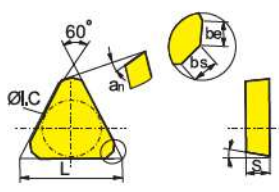

A

Tornear

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | |
|-------|----|------|------|
| TPKN | L | I.C | S |
| 22 04 | 22 | 12,7 | 4,76 |

Placa de fresado

| Placa de fresado TP** | | | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | | |
|---|---|-----------------|-----|-----------------------|-----|----|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|---|
|  | P | M | K | N | S | H | | | | | | | | | | | | | | | | | | | | | |
| | ISO | | | be | bs | an | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| |  | TPKN2204PDFR | 1,4 | 0,7 | 11° | | | | | | | | | | | ○ | | | | | | | | | | | |
| | | TPKN2204PDS32PR | 1,4 | 0,7 | 11° | | | | | | | | | | | | | ○ | ○ | | | | | | | | ● |
| | | TPKN2204PDSKL | 1,4 | 0,7 | 11° | | | ○ | | | | | | | | | | | | | | | | | | | |
| | | TPKN2204PDSKR | 1,4 | 0,7 | 11° | ● | ● | | ● | ● | | | | | | | ● | ● | ● | | | | | | | | |
| | TPKN2204PDTKR | 1,4 | 0,7 | 11° | | | | | | | | | | | ● | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Código de sistema > B26

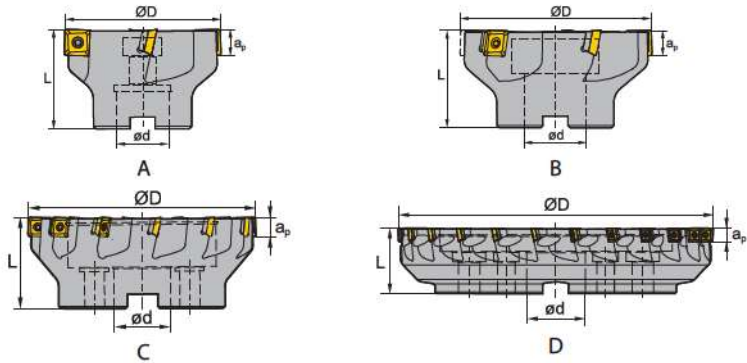
Selección de tipos > B24


Información técnica > B463

Parametros > B224

Fresa para planear

FMP02 Kr: 90° 



| Artículo | * | Almacén | Dimensiones [mm] | | | | Dientes | Alojamiento | kg | Placa  |
|------------------------|---|---------|------------------|----|----|--------|---------|-------------|-----|--|
| | | | ØD | ød | L | ap max | | | | |
| FMP02-050-A22-SE09-05 | | ● | 50 | 22 | 40 | 6,7 | 5 | A | 0,3 | SEET09T3 |
| FMP02-050-A22-SE09-05C | * | ● | 50 | 22 | 40 | 6,7 | 5 | A | 0,3 | |
| FMP02-063-A22-SE09-06 | | ● | 63 | 22 | 40 | 6,7 | 6 | A | 0,5 | |
| FMP02-063-A22-SE09-06C | * | ● | 63 | 22 | 40 | 6,7 | 6 | A | 0,5 | |
| FMP02-080-A27-SE09-08 | | ● | 80 | 27 | 50 | 6,7 | 8 | A | 0,9 | |
| FMP02-100-B32-SE09-08 | | ○ | 100 | 32 | 50 | 6,7 | 8 | B | 1,7 | |
| FMP02-100-B32-SE09-10 | | ○ | 100 | 32 | 50 | 6,7 | 10 | B | 1,7 | |
| FMP02-100-B32-SE09-10C | * | ○ | 100 | 32 | 50 | 6,7 | 10 | B | 1,7 | |
| FMP02-125-B40-SE09-12 | | ● | 125 | 40 | 63 | 6,7 | 12 | B | 2,6 | |
| FMP02-125-B40-SE09-12C | * | ○ | 125 | 40 | 63 | 6,7 | 12 | B | 2,6 | |
| FMP02-050-A22-SE12-03 | | ○ | 50 | 22 | 40 | 10,8 | 3 | A | 0,3 | SEET1203 |
| FMP02-050-A22-SE12-04 | | ● | 50 | 22 | 40 | 10,8 | 4 | A | 0,3 | |
| FMP02-050-A22-SE12-04C | * | ● | 50 | 22 | 40 | 10,8 | 4 | A | 0,3 | |
| FMP02-050-A22-SE12-05 | | ● | 50 | 22 | 40 | 10,8 | 5 | A | 0,2 | |
| FMP02-050-A22-SE12-05C | * | ○ | 50 | 22 | 40 | 10,8 | 5 | A | 0,2 | |
| FMP02-063-A22-SE12-04 | | ○ | 63 | 22 | 40 | 10,8 | 4 | A | 0,4 | |
| FMP02-063-A22-SE12-05 | | ● | 63 | 22 | 40 | 10,8 | 5 | A | 0,4 | |
| FMP02-063-A22-SE12-05C | * | ● | 63 | 22 | 40 | 10,8 | 5 | A | 0,4 | |
| FMP02-063-A22-SE12-06 | | ● | 63 | 22 | 40 | 10,8 | 6 | A | 0,4 | |
| FMP02-063-A22-SE12-06C | * | ○ | 63 | 22 | 40 | 10,8 | 6 | A | 0,4 | |
| FMP02-080-A27-SE12-04 | | ○ | 80 | 27 | 50 | 10,8 | 4 | A | 0,9 | SEET1203 |
| FMP02-080-A27-SE12-06 | | ● | 80 | 27 | 50 | 10,8 | 6 | A | 0,8 | |
| FMP02-080-A27-SE12-06C | * | ● | 80 | 27 | 50 | 10,8 | 6 | A | 0,8 | |
| FMP02-080-A27-SE12-08 | | ● | 80 | 27 | 50 | 10,8 | 8 | A | 0,8 | |
| FMP02-080-A27-SE12-08C | * | ○ | 80 | 27 | 50 | 10,8 | 8 | A | 0,8 | |
| FMP02-100-B32-SE12-05 | | ● | 100 | 32 | 50 | 10,8 | 5 | B | 1,2 | |
| FMP02-100-B32-SE12-07 | | ● | 100 | 32 | 50 | 10,8 | 7 | B | 1,2 | |
| FMP02-100-B32-SE12-10 | | ● | 100 | 32 | 50 | 10,8 | 10 | B | 1,2 | |
| FMP02-100-B32-SE12-10C | * | ○ | 100 | 32 | 50 | 10,8 | 10 | B | 1,2 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parámetros > B224



A
Tomar
B
Fresado
C
Taladrar
D
Información técnica
E
Índice

Fresa de placas intercambiables Fresa para planear

A

Tornear

| Artículo | * Almacén | Dimensiones [mm] | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|-----------|------------------|----|----|--------------------|---------|-------------|------|----------|
| | | ØD | ød | L | a _{p max} | | | | |
| FMP02-125-B40-SE12-06 | ○ | 125 | 40 | 63 | 10,8 | 6 | B | 3,1 | SEET1203 |
| FMP02-125-B40-SE12-08 | ● | 125 | 40 | 63 | 10,8 | 8 | B | 3 | |
| FMP02-125-B40-SE12-08C | * ○ | 125 | 40 | 63 | 10,8 | 8 | B | 3 | |
| FMP02-125-B40-SE12-12 | ● | 125 | 40 | 63 | 10,8 | 12 | B | 2,9 | |
| FMP02-160-C40-SE12-08 | ● | 160 | 40 | 63 | 10,8 | 8 | C | 4,1 | |
| FMP02-160-C40-SE12-12 | ● | 160 | 40 | 63 | 10,8 | 12 | C | 3,9 | |
| FMP02-200-C60-SE12-16 | ● | 200 | 60 | 63 | 10,8 | 16 | C | 6,1 | |
| FMP02-250-C60-SE12-12 | ○ | 250 | 60 | 63 | 10,8 | 12 | C | 11,1 | |
| FMP02-250-C60-SE12-18 | ● | 250 | 60 | 63 | 10,8 | 18 | C | 10,9 | |
| FMP02-315-D60-SE12-24 | ○ | 315 | 60 | 63 | 10,8 | 24 | D | 21,6 | |

- Desde el almacén ○ Bajo pedido
- * Con refrigeración interior

B

Fresado

| Piezas de recambio | | | | | |
|--------------------|------------------|---------------------|------------------------|------------------------|--|
| | Placa | SEET09T3 | SEET1203 | SEET1203 | |
| | ØD | 50-125 | 50 | 63-315 | |
| | Tornillo (placa) | I60M3*7 (1,8 Nm) | I60M3.5*10 (2,7 Nm) | I60M3.5*12 (2,7 Nm) | |
| | Tornillo (base) | | | SM5*7XA | |
| | Base | | | S12BSX | |
| | Llave (placa) | WT09IS | WT15IS | WT15IS | |
| | Llave (base) | | | WH35L | |

C

Taladrar

D

Información técnica

Placa de fresado

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| SEET | L | I.C | S | d |
|-------|--------|--------|------|-----|
| 09 T3 | 9,525 | 9,525 | 4,01 | 3,3 |
| 12 03 | 13,308 | 13,308 | 4,04 | 4,1 |

| Placa de fresado SE** | | Material | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-------------------|-----------------------|----------|----------|-----------------------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | | HC ¹ (CVD) | | | HC ¹ (PVD) | | HT | HC ² | HW | | | | | | | | | | | | | | |
| | P | ●●●●●●●● | ●●●●●●●● | ●●●●●●●● | ●●●●●●●● | ●●●● | ●●●● | | | | | | | | | | | | | | | | |
| | M | ●●●●●●●● | ●●●●●●●● | ●●●●●●●● | ●●●●●●●● | ●●●● | ●●●● | | | | | | | | | | | | | | | | |
| | K | | ●●●● | ●●●● | ●●●● | ●●●● | | | ●●●● | | | | | | | | | | | | | | |
| | N | | ●●●● | | | | | | ●●●● | | | | | | | | | | | | | | |
| | S | | ●●●● | ●●●● | ●●●● | ●●●● | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SEET09T308PER-APF | 0,8 | ● | ○ | ○ | | | | | | | | | | | | | | | | | | |
| | SEET120308PER-APF | 0,8 | ● | ○ | ○ | | | | | | | | | | | | | | | | | | |

- Desde el almacén ○ Bajo pedido

- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

E

Índice

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| SEET | L | I.C | S | d |
|-------|--------|--------|------|-----|
| 09 T3 | 9,525 | 9,525 | 4,01 | 3,3 |
| 12 03 | 13,308 | 13,308 | 4,04 | 4,1 |

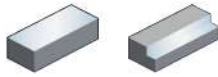
Placa de fresado

| Placa de fresado SE** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | |
|-----------------------|-------------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | | P | M | K | N | S | H | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | SEET09T308PER-APM | 0,8 | | | | | ● | | | | ○ | ○ | | | | | | | | | | | | |
| | SEET120308PER-APM | 0,8 | | | | | ● | | | | ○ | ● | | | | | | | | | | | | |
| | SEET09T308PER-APR | 0,8 | | | | | ● | | | | ○ | ○ | | | | | | | | | | | | |
| | SEET120308PER-APR | 0,8 | | | | | ● | | | | ○ | ○ | | | | | | | | | | | | |
| | SEET120308-LH | 0,8 | | | | | | | | | ○ | ○ | | | | | | | | | | | ● | |
| | SEET09T308PER-PF | 0,8 | | | | | | | | | | | | | ● | | | | | | | | | |
| | SEET120308PER-PF | 0,8 | ● | ● | | | ○ | | | | | | | | ● | | | | | | | | | |
| | SEET09T308PER-PM | 0,8 | | | | | | ○ | | | | | | | ● | | | | | | | | | |
| | SEET120308PER-PM | 0,8 | ● | | | | ● | ● | ● | ● | ● | | | ● | ● | ● | | | | | | | | |
| | SEET09T308PER-PR | 0,8 | | | | | | ● | | | | | | | | | ○ | | | | | | | |
| | SEET120308PER-PR | 0,8 | ● | | | | ● | ● | ● | ● | ○ | | | ○ | ○ | | | | | | | | | |

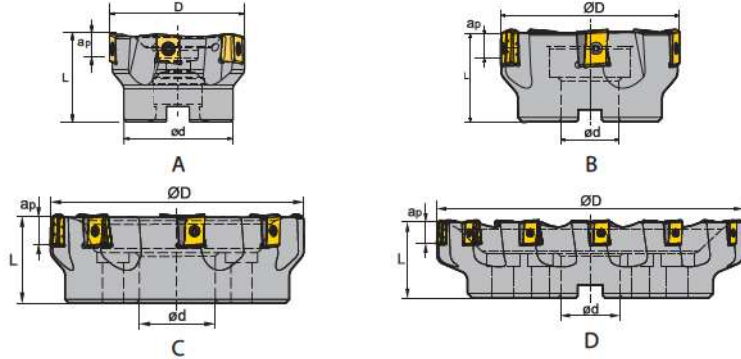
● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A
 Tornear
B
 Fresado
C
 Taladrar
D
 Información técnica
E
 Índice

A
Fresa para planear
FMP03 Kr: 89°


Tornear


B

Fresado

C

Taladrar

D

 Información
técnica

E

Índice

| Artículo | * | Almacén | | Dimensiones [mm] | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|---|---------|---|------------------|----|----|--------|---------|-------------|------|---------------|
| | | R | L | ØD | ød | L | ap max | | | | |
| FMP03-050-A22-LN12-04C | * | ● | | 50 | 22 | 40 | 7 | 4 | A | 0,3 | LNKT120608-ZR |
| FMP03-050-A22-LN12-05C | * | ○ | | 50 | 22 | 40 | 7 | 5 | A | 0,3 | |
| FMP03-063-A22-LN12-05C | * | ● | | 63 | 22 | 40 | 7 | 5 | A | 0,5 | |
| FMP03-063-A27-LN12-05C | * | ○ | | 63 | 27 | 50 | 7 | 5 | A | 0,64 | |
| FMP03-063-A22-LN12-06C | * | ○ | | 63 | 22 | 40 | 7 | 6 | A | 0,5 | |
| FMP03-063-A27-LN12-06C | * | ● | | 63 | 27 | 50 | 7 | 6 | A | 0,65 | |
| FMP03-063-A27-LN12-07C | * | ○ | | 63 | 27 | 50 | 7 | 7 | A | 0,64 | |
| FMP03-080-A27-LN12-06C | * | ● | | 80 | 27 | 50 | 7 | 6 | A | 1 | |
| FMP03-080-A27-LN12-07C | * | ○ | | 80 | 27 | 50 | 7 | 7 | A | 1 | |
| FMP03-100-B32-LN12-06 | | ○ | | 100 | 32 | 50 | 7 | 6 | B | 1,47 | |
| FMP03-125-B40-LN15-06 | | ● | | 125 | 40 | 63 | 12 | 6 | B | 3,2 | |
| FMP03-160-C40-LN15-08 | | ● | | 160 | 40 | 63 | 12 | 8 | C | 5,1 | |
| FMP03-160-C40-LN15-09 | | ○ | | 160 | 40 | 63 | 12 | 9 | C | | |
| FMP03-200-C60-LN15-10 | | ● | | 200 | 60 | 70 | 12 | 10 | C | 7,5 | LNKT2007DN-ZR |
| FMP03-250-C60-LN15-12 | | ○ | | 250 | 60 | 70 | 12 | 12 | C | 12,2 | |
| FMP03-250-C60-LN15-13 | | ○ | | 250 | 60 | 70 | 12 | 13 | C | | |
| FMP03-315-D60-LN15-16 | | ○ | | 315 | 60 | 80 | 12 | 16 | D | 23,7 | |
| FMP03-125-B40-LN20-06 | | ○ | | 125 | 40 | 63 | 16 | 6 | B | 3,3 | LNKT2510-ZR |
| FMP03-160-C40-LN20-08 | | ● | | 160 | 40 | 63 | 16 | 8 | C | 5,3 | |
| FMP03-160-C40-LN20-09 | | ○ | | 160 | 40 | 63 | 16 | 9 | C | | |
| FMP03-200-C60-LN20-10 | | ● | | 200 | 60 | 70 | 16 | 10 | C | 8,8 | |
| FMP03-200-C60-LN20-11 | | ○ | | 200 | 60 | 70 | 16 | 11 | C | 14 | |
| FMP03-250-C60-LN20-12 | | ● | | 250 | 60 | 70 | 16 | 12 | C | 14 | |
| FMP03-315-D60-LN20-15 | | ○ | | 315 | 60 | 80 | 16 | 15 | D | 23,9 | |
| FMP03-125-B40-LN25-05 | | ○ | | 125 | 40 | 63 | 20 | 5 | B | 3,3 | |
| FMP03-160-C40-LN25-06 | | ○ | ○ | 160 | 40 | 63 | 20 | 6 | C | 5,1 | |
| FMP03-200-C60-LN25-08 | | ○ | | 200 | 60 | 70 | 20 | 8 | C | 8,9 | |
| FMP03-250-C60-LN25-10 | | ● | ○ | 250 | 60 | 70 | 20 | 10 | C | 12 | |
| FMP03-315-D60-LN25-12 | | ○ | ○ | 315 | 60 | 80 | 20 | 12 | D | 21,9 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Piezas de recambio

| | Placa | LNKT120608-ZR | LNKT1506EN-ZR | LNKT2007DN-ZR | LNKT2510-ZR |
|--|------------------|----------------------|----------------------|----------------------|----------------------|
| | ØD | 50-100 | 125 - 315 | 125 - 315 | 125 - 315 |
| | Tornillo (placa) | I60M4*12 (3,4 Nm) | I60M4*12 (3,4 Nm) | I60M4*15 (3,4 Nm) | I60M5*17 (6,7 Nm) |
| | Tornillo (base) | | I60M3*7 | I60M3*7 | I60M3.5*10.4 |
| | Base | | LLN15-ZR | LLN20R-ZR | LLN25R-ZR |
| | Llave (placa) | WT15IS | WT15IS | WT15IS | |
| | Llave (placa) | | | | WT20IT |
| | Llave (base) | | WT09IS | WT09IS | WT15IS |



| LNKT | L | S | d |
|-------|--------|-------|-----|
| 12 06 | 12,7 | 6,65 | 4,4 |
| 15 06 | 15,875 | 6,35 | 4,6 |
| 20 07 | 20 | 7,94 | 4,6 |
| 25 10 | 25 | 9,525 | 5,5 |

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

Placa de fresado

| Placa de fresado LN** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|---------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | I.W | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |
| | LNKT120608-ZR | 12 | ● | | ● | | | | | | | ● | | | | | ○ | | | | | | |
| | LNKT1506EN-ZR | 14 | ● | | ○ | ● | ● | ● | | | | | | | | | | | | | | | |
| | LNKT2007DN-ZR | 17 | | | ● | ● | | ○ | | | | | | | | | | ● | | | | | |
| | LNKT2510-ZR | 18 | | | | | ● | ● | | | | | | | | | | ● | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

Notas

A

Tornear

B

Fresado

C

Taladrar

D

Información
técnica

E

Índice

Series of horizontal dotted lines for notes, organized into sections A through E.

FMP12 ^{Kr: 90°}

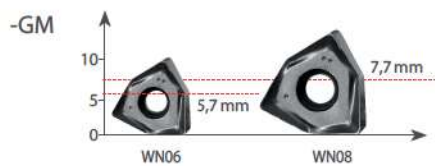
Fresa de escuadrar

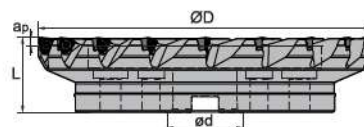
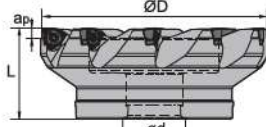
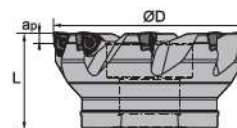
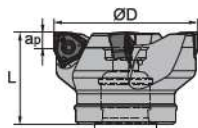
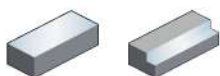
- Para acero, acero inoxidable y fundición
- Placa intercambiable con seis hélices
- Dos tamaños de placa diferentes
- Disponibles radios de 0,4–1,6 mm

Tipos de placa

| | | | |
|---------------|---------------|---------------|---------------|
| YBM253 | YBG205 | YBD152 | YBD252 |
| CVD | PVD | CVD | CVD |
| P20–P40 | P10–P30 | K05–K25 | K15–K35 |
| M10–M30 | M20–M30 | | |

Rompevirutas



A
Fresa para planear
FMP12 Kr: 90°


Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

| Artículo | * | Almacén | Dimensiones [mm] | | | Dientes | Alojamiento | kg | Placa | |
|------------------------|---|---------|------------------|----|--------|---------|-------------|------|----------|----------|
| | | | ØD | ød | ap max | | | | | |
| FMP12-050-A22-WN06-05C | * | ○ | 50 | 22 | | 5 | A | 55 | WNHU0604 | |
| FMP12-063-A22-WN06-06C | * | ● | 63 | 22 | | 6 | A | 45 | | |
| FMP12-080-A27-WN06-07C | * | ● | 80 | 27 | | 7 | A | 10 | | |
| FMP12-100-B32-WN06-09 | | ● | 100 | 32 | | 9 | A | 1,4 | | |
| FMP12-100-B32-WN06-09C | * | ● | 100 | 32 | | 9 | A | 1,4 | | |
| FMP12-125-B40-WN06-11C | * | ○ | 125 | 40 | | 11 | B | 3,4 | | |
| FMP12-160-C40-WN06-14 | | ○ | 160 | 40 | | 14 | C | 5,4 | | |
| FMP12-063-A22-WN08-04C | * | ● | 63 | 22 | | 4 | A | 39 | | WNHU0806 |
| FMP12-063-A22-WN08-05C | * | ● | 63 | 22 | | 5 | A | 45 | | |
| FMP12-080-A27-WN08-05C | * | ● | 80 | 27 | | 5 | A | 95 | | |
| FMP12-100-B32-WN08-06 | | ● | 100 | 32 | | 6 | B | 1,32 | | |
| FMP12-100-B32-WN08-06C | * | ● | 100 | 32 | | 6 | B | 1,32 | | |
| FMP12-125-B40-WN08-08C | * | ○ | 125 | 40 | | 8 | B | 3,3 | | |
| FMP12-160-C40-WN08-10 | | ○ | 160 | 40 | | 10 | C | 5,2 | | |
| FMP12-200-C60-WN08-12 | | ○ | 200 | 60 | | 12 | C | | | |
| FMP12-250-C60-WN08-14 | | ○ | 250 | 60 | | 14 | C | | | |
| FMP12-315-D60-WN08-18 | | ○ | 315 | 60 | | 18 | D | | | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Piezas de recambio

| | Placa | WNHU0604 | WNHU0806 |
|--|------------------|---------------------|----------------------|
| | ØD | 50-315 | 50-315 |
| | Tornillo (placa) | I60M3*9 (1,8 Nm) | I60M4*10 (3,4 Nm) |
| | Llave (placa) | WT09IS | |
| | Llave (placa) | | WT20IT |

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

A

Tomar

B

Fresado

C




Taladrar

D

Información técnica

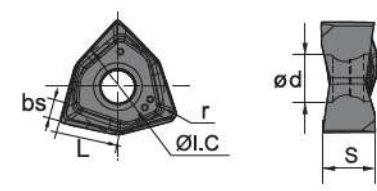

E

Índice

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| WNHU | L | I.C | S | d |
|--------------|------|-------|-------|-----|
| 06 04 | 5,73 | 9,525 | 4,704 | 3,5 |
| 08 06 | 7,76 | 12,7 | 6,32 | 4,4 |

Placa de fresado

| Placa negativa WN** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | | |
|---|------------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | | |
| ISO | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | | |
|  | WNHU060404PNR-GM | 0,4 | | ○ | | ○ | | | | | | ○ | | | | | | | | | | | | |
| | WNHU060408PNR-GM | 0,8 | | ● | | ○ | ○ | | | | | ○ | | | | | | | | | | | | |
| | WNHU080608PNR-GM | 0,8 | | ○ | | ● | ● | | | | | ● | | | | | | | | | | | | |
| | WNHU080616PNR-GM | 1,6 | | ○ | | ● | ○ | | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

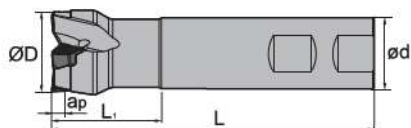
HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A

Fresa para planear

FMP12 Kr: 90°


Tornear


B

Fresado

| Artículo | * | Almacén | Dimensiones [mm] | | | Dientes | Alojamiento | kg | Placa |
|-------------------------|---|---------|------------------|-----------------|--------------|---------|-------------|----------|-------|
| | | | $\varnothing D$ | $\varnothing d$ | $a_{p\ max}$ | | | | |
| FMP12-025-XP25-WN06-02C | * | o | 25 | 25 | | 2 | 0,38 | WNHU0604 | |
| FMP12-032-XP25-WN06-03C | * | o | 32 | 25 | | 3 | 0,47 | | |
| FMP12-040-XP32-WN06-04C | * | o | 40 | 32 | | 4 | 0,85 | | |
| FMP12-050-XP40-WN06-05C | * | o | 50 | 40 | | 5 | 1,59 | | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

C

Taladrar

Piezas de recambio

| | Placa | WNHU0604 | |
|------------------|-----------------|--------------------|--|
| | $\varnothing D$ | 25-50 | |
| Tornillo (placa) | | I60M3x9 (1,8Nm) | |
| Llave (placa) | | WT09IS | |

D

 Información
técnica

E

Índice

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parametros > B224

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | | |
|-------|------|-------|-------|-----|
| WNHU | L | I.C | S | d |
| 06 04 | 5,73 | 9,525 | 4,704 | 3,5 |

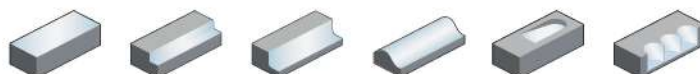
Placa de fresado

| Placa negativa WN** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | |
|---------------------|------------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | r | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | WNHU060404PNR-GM | 0,4 | | | ○ | | ○ | | | | | | | | | | | | | | | | |
| | WNHU060408PNR-GM | 0,8 | | | ● | | ○ | ○ | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

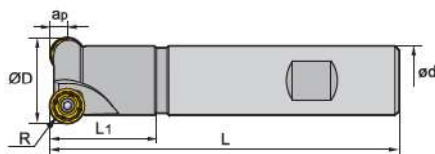
| | |
|----------|---------------------|
| A | Tornear |
| B | Fresado |
| C | Taladrar |
| D | Información técnica |
| E | Índice |

A
Fresa para planear
FMR01


Tornear

B

Fresado


C

Taladrar

| Artículo | * Almacén | Dimensiones [mm] | | | | | | | Dientes | kg | Placa |
|-------------------------|-----------|------------------|----|----|----------------|-----|--------------------|---|---------|----------------------|-------|
| | | R | ØD | ød | L ₁ | L | a _{p max} | | | | |
| FMR01-025-XP20-RC10-02 | ○ | 5 | 25 | 20 | 30 | 100 | 5 | 2 | 0,2 | RCKT10T3 | |
| FMR01-025-XP20-RC10-02C | * ○ | 5 | 25 | 20 | 30 | 100 | 5 | 2 | 0,2 | | |
| FMR01-032-XP25-RC10-02 | ● | 5 | 32 | 25 | 35 | 120 | 5 | 2 | 0,5 | | |
| FMR01-032-XP25-RC10-02C | * ● | 5 | 32 | 25 | 35 | 120 | 5 | 2 | 0,5 | RCKT1204 RCGX1204 | |
| FMR01-040-XP32-RC12-03 | ● | 6 | 40 | 32 | 40 | 120 | 6 | 3 | 0,7 | | |
| FMR01-040-XP32-RC12-03C | * ● | 6 | 40 | 32 | 40 | 120 | 6 | 3 | 0,7 | | |
| FMR01-050-XP32-RC12-03 | ● | 6 | 50 | 32 | 40 | 120 | 6 | 3 | 0,8 | | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

D

Información técnica

Piezas de recambio

| | Placa | RCKT10T3 | RCKT1204 RCGX1204 |
|------------------|-------|-----------------------|------------------------|
| | ØD | 25-32 | 40-50 |
| Tornillo (placa) | | I60M4*8.4 (3,4 Nm) | I60M3.5*10 (2,7 Nm) |
| Llave (placa) | | WT155 | WT155 |


E

Índice

Código de sistema > B26

Selección de tipos > B24

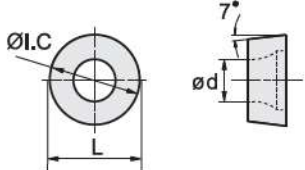
Información técnica > B463

Parametros > B224

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | |
|-------|-----|------|---|
| RCGX | I.C | S | d |
| 12 04 | 12 | 4,76 | 4 |

Placa de fresado



| | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | |
|----------|---------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| P | | | | | | | | | | | | | | | | | | | | | | | |
| M | | | | | | | | | | | | | | | | | | | | | | | |
| K | | | | | | | | | | | | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | | | | | | | | | | |
| S | | | | | | | | | | | | | | | | | | | | | | | |
| H | | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | RCGX1204MO-LH | | | | | | | | | | | | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

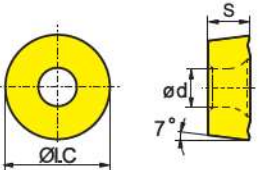
Índice

Placa de fresado

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| | | | |
|-------|-----|------|-----|
| RCKT | I.C | S | d |
| 10 T3 | 10 | 3,97 | 4,4 |
| 12 04 | 12 | 4,76 | 4 |

Placa de fresado RC**






| | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | |
|----------|---------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| P | | | | | | | | | | | | | | | | | | | | | | | |
| M | | | | | | | | | | | | | | | | | | | | | | | |
| K | | | | | | | | | | | | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | | | | | | | | | | |
| S | | | | | | | | | | | | | | | | | | | | | | | |
| H | | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | RCKT10T3MO-DM | ● | ● | | | | | | | | | | | ● | ○ | | | | | | | | |
| | RCKT1204MO-DM | ● | ● | ● | ● | ○ | | | | | | | | ● | ○ | | | | | | | | |
| | RCKT1204MO-DR | ● | ● | ● | ● | | | | | | | | ○ | ○ | | | | | | | | | |
| | RCKT1204MO-ER | | | | ● | | | | | | | | | | | | | | | | | | |
| | RCKT1204MO-NM | | | | ● | ● | | | | ● | | | | | ○ | ○ | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

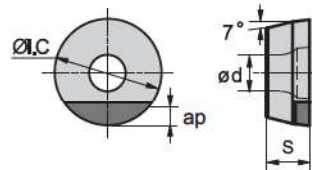






A

Tornear

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | |
|-------|-----|------|-----|
| RCMW | I.C | S | d |
| 12 04 | 12 | 4,76 | 4,1 |

Placa de fresado

| Placa negativa RN** | | BL (CBN) | BH (CBN) |
|---|-----------------|---|---|
|  | P | | |
| | M | | |
| | K | |  |
| | N | | |
| | S |  | |
| | H |   | |
| ISO | $a_{p\max}$ | YCB121 YCB131 | YCB211 |
|  | RCMW1204MO-PCBN | 2,7 |  |

● Desde el almacén ○ Bajo pedido

BL (CBN) CBN con porcentaje reducido de CBN
BH (CBN) CBN con porcentaje elevado de CBN

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Código de sistema > B26

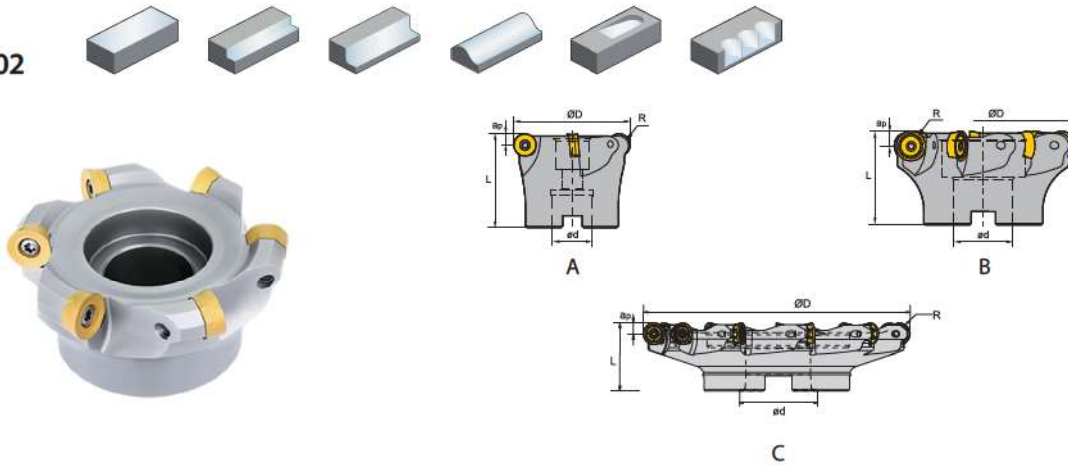
Selección de tipos > B24

Información técnica > B463

Parametros > B224

Fresa para planear

FMR02



| Artículo | * | Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|---------------------------|---|---------|------------------|-----|----|----|--------|---------|-------------|------|----------------------------------|
| | | | R | ØD | ød | L | ap max | | | | |
| FMR02-050-A22-RC12-05C | * | ● | 6 | 50 | 22 | 40 | 6 | 5 | A | 0,7 | RCGX1204 RCKT1204 RCMW1204 |
| FMR02-052-A22-RC12-05C | * | ● | 6 | 52 | 22 | 40 | 6 | 5 | A | 0,7 | |
| FMR02-063-A22-RC12-04 | | ● | 6 | 63 | 22 | 40 | 6 | 4 | A | 0,7 | |
| FMR02-063-A22-RC12-06 | | ● | 6 | 63 | 22 | 40 | 6 | 6 | A | 0,7 | |
| FMR02-063-A22-RC12-06C | * | ● | 6 | 63 | 22 | 40 | 6 | 6 | A | 0,7 | |
| FMR02-080-A27-RC12-07C | * | ● | 6 | 80 | 27 | 50 | 6 | 7 | B | 0,7 | |
| FMR02-100-B32-RC12-08C | * | ● | 6 | 100 | 32 | 50 | 6 | 8 | B | 0,89 | RCKT1606 |
| FMR02-063-A22-RC16-04 | | ● | 8 | 63 | 22 | 40 | 8 | 4 | A | 0,7 | |
| FMR02-063-A22-RC16-04C | * | ○ | 8 | 63 | 22 | 40 | 8 | 4 | A | 0,7 | |
| FMR02-066-A27-RC16-05C | * | ● | 8 | 66 | 27 | 50 | 8 | 4 | A | 0,5 | |
| FMR02-080-B27-RC16-05 | | ● | 8 | 80 | 27 | 50 | 8 | 5 | B | 0,7 | |
| FMR02-080-B27-RC16-07 | | ● | 8 | 80 | 27 | 50 | 8 | 7 | B | 0,7 | |
| FMR02-100-B32-RC16-06 | | ● | 8 | 100 | 32 | 63 | 8 | 6 | B | 1,2 | |
| FMR02-100-A32-RC16-06C | * | ○ | 8 | 100 | 32 | 63 | 8 | 6 | B | 1,2 | |
| FMR02-125-B40-RC16-07 | | ● | 8 | 125 | 40 | 63 | 8 | 7 | B | 2,5 | |
| FMR02-160-B40-RC16-10(FB) | | ○ | 8 | 160 | 40 | 63 | 8 | 10 | B | 3,94 | |
| FMR02-200-C60-RC16-12FB | | ● | 8 | 200 | 60 | 63 | 8 | 12 | C | 5,4 | |
| FMR02-080-A27-RC20-04 | | ● | 10 | 80 | 27 | 50 | 10 | 4 | A | 0,7 | |
| FMR02-080-A27-RC20-04C | * | ● | 10 | 80 | 27 | 50 | 10 | 4 | A | 0,7 | |
| FMR02-100-B32-RC20-05 | | ● | 10 | 100 | 32 | 63 | 10 | 5 | B | 1,2 | |
| FMR02-100-B32-RC20-06 | | ● | 10 | 100 | 32 | 63 | 10 | 6 | B | 1,2 | |
| FMR02-100-B32-RC20-06C | * | ○ | 10 | 100 | 32 | 63 | 10 | 6 | B | 1,2 | |
| FMR02-125-B40-RC20-06 | | ● | 10 | 125 | 40 | 63 | 10 | 6 | B | 1,2 | |
| FMR02-125-B40-RC20-07 | | ● | 10 | 125 | 40 | 63 | 10 | 7 | B | 2,2 | |
| FMR02-125-B40-RC20-07C | * | ○ | 10 | 125 | 40 | 63 | 10 | 7 | B | 2,2 | |
| FMR02-160-B40-RC20-08 | | ● | 10 | 160 | 40 | 63 | 10 | 8 | B | 4,2 | |
| FMR02-160-B40-RC20-08C | * | ○ | 10 | 160 | 40 | 63 | 10 | 8 | B | 4,2 | |
| FMR02-250-C60-RC20-10 | | ● | 10 | 250 | 60 | 63 | 10 | 10 | C | 8,49 | |
| FMR02-250-C60-RC20-11 | | ○ | 10 | 250 | 60 | 63 | 10 | 11 | C | 8,37 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parámetros > B224







A
Tomear
B
Fresado
C
Taladrar
D
Información técnica
E
Índice

A




Tornear

Piezas de recambio

| | Placa | RCGX1204 RCKT1204 RCMW1204 | RCKT1606 | RCKT2006 |  |
|---|------------------|----------------------------------|----------------------|----------------------|---|
| | ØD | 50-100 | 63-200 | 80-250 | |
|  | Tornillo (placa) | I60M3.5*10 (2,7 Nm) | I60M5*13 (6,7 Nm) | I43M6*16 (9,1 Nm) | |
|  | Llave (placa) | WT15IS | | | |
|  | Llave (placa) | | WT20IT | WT25IT | |

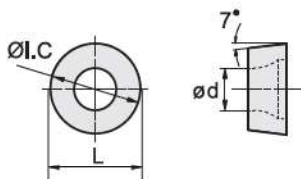

B

Fresado

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| RCGX | I.C | S | d |
|-------|-----|------|---|
| 12 04 | 12 | 4,76 | 4 |

Placa de fresado

|  | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | HT | HC ² | HW | | | | | | | | | |
|---|---------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|---|
| | | P | M | K | N | S | H | | | | | | | | | | | | | | | | |
| ISO | | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | RCGX1204MO-LH | | | | | | | | | | | | | | | | | | | | | | ● |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

C

Taladrar

D

Información técnica

E

Índice

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

| RCKT | I.C | S | d |
|-------|-----|------|------|
| 12 04 | 12 | 4,76 | 4 |
| 16 06 | 16 | 6,35 | 5,56 |
| 20 06 | 20 | 6,35 | 6,55 |

Placa de fresado

| Placa de fresado RC** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|---------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| | RCKT1204MO-DM | | ● | ● | ● | ● | ○ | | | | | | | ● | | ○ | | | | | | | |
| | RCKT1606MO-DM | | ● | ● | ○ | | | | | | | ○ | | | | ● | | | | | | | |
| | RCKT2006MO-DM | | ○ | ○ | ○ | | | | | | | | | | | | | | | | | | |
| | RCKT1204MO-DR | | ● | ● | ● | ● | | | | | | ○ | ○ | | | | | | | | | | |
| | RCKT1606MO-DR | | ● | ● | ● | ● | ● | | | | ○ | ○ | | | | | | | | | | | |
| | RCKT2006MO-DR | | ● | ● | ● | ○ | ● | | | | | ○ | ○ | | | | | | | | | | |
| | RCKT1204MO-ER | | | | ● | | | | | | | | | | | | | | | | | | |
| | RCKT1606MO-ER | | | | ● | | | | | | | | | | | | | | | | | | |
| | RCKT2006MO-ER | | | | ● | | | | | | | | | | | | | | | | | | |
| | RCKT1204MO-NM | | | | ● | ● | | | | | ● | | ○ | ○ | | | | | | | | | |
| | RCKT1606MO-NM | | | | ○ | ○ | | | | | ● | | ○ | ○ | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

- HC¹ Metal duro con recubrimiento
- HT Cermet sin recubrimiento
- HC² Cermet con recubrimiento
- HW Metal duro sin recubrimiento

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

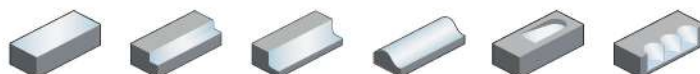
| RCMW | I.C | S | d |
|-------|-----|------|-----|
| 12 04 | 12 | 4,76 | 4,1 |

Placa de fresado

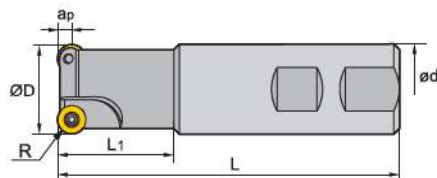
| Placa negativa RN** | | BL (CBN) | | BH (CBN) | |
|---------------------|-----------------|--------------------|--------|----------|--------|
| | P | | | | |
| | M | | | | |
| | K | | | | |
| | N | | | | |
| | S | | | | |
| | H | | | | |
| ISO | | a _p max | YCB121 | YCB131 | YCB211 |
| | RCMW1204MO-PCBN | 2,7 | | | ○ |

● Desde el almacén ○ Bajo pedido

- BL (CBN) CBN con porcentaje reducido de CBN
- BH (CBN) CBN con porcentaje elevado de CBN

A
Fresa para planear
FMR03


Tornear


B

Fresado

C

Taladrar

| Artículo | * Almacén | Dimensiones [mm] | | | | | | | Dientes | kg | Placa |
|-------------------------|-----------|------------------|----|----|----------------|-----|--------------------|---|---------|----------|-------|
| | | R | ØD | ød | L ₁ | L | a _{p max} | | | | |
| FMR03-016-XP16-RD08-02 | ○ | 4 | 16 | 16 | 25 | 100 | 4 | 2 | 0,1 | RDKW0803 | |
| FMR03-016-XP16-RD08-02C | * ○ | 4 | 16 | 16 | 25 | 100 | 4 | 2 | 0,1 | | |
| FMR03-025-XP25-RD08-02 | ● | 4 | 25 | 25 | 30 | 100 | 4 | 2 | 0,3 | | |
| FMR03-025-XP25-RD08-02C | * ○ | 4 | 25 | 25 | 30 | 100 | 4 | 2 | 0,3 | RDKW10T3 | |
| FMR03-032-XP32-RD10-02 | ● | 5 | 32 | 32 | 40 | 120 | 5 | 2 | 0,7 | | |
| FMR03-032-XP32-RD10-02C | * ○ | 5 | 32 | 32 | 40 | 120 | 5 | 2 | 0,7 | RDKW1204 | |
| FMR03-040-XP32-RD12-03 | ● | 6 | 40 | 32 | 40 | 120 | 6 | 3 | 0,7 | | |
| FMR03-040-XP32-RD12-03C | * ○ | 6 | 40 | 32 | 40 | 120 | 6 | 3 | 0,7 | | |
| FMR03-050-XP32-RD12-04 | ● | 6 | 50 | 32 | 40 | 120 | 6 | 4 | 0,8 | | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

D




Información técnica

Piezas de recambio

| | Placa | RDKW0803 | RDKW10T3 | RDKW1204 | |
|--|------------------|---------------------|----------------------|----------------------|--|
| | ØD | 16-25 | 32 | 40-50 | |
| | Tornillo (placa) | I60M3*7 (1,8 Nm) | I60M4*10 (3,4 Nm) | I60M4*10 (3,4 Nm) | |
| | Llave (placa) | WT09IP | WT15IP | WT15IP | |

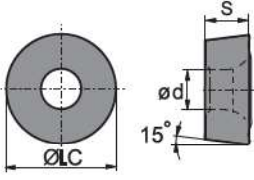

E

Índice

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| RDKW | I.C | S | d |
|-------|-----|------|-----|
| 08 03 | 8 | 3,18 | 3,4 |
| 10 T3 | 10 | 3,97 | 4,4 |
| 12 04 | 12 | 4,76 | 4,4 |

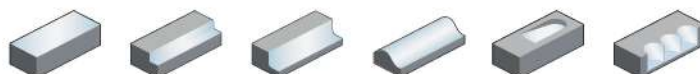
Placa de fresado

| Placa de fresado RD** | | HC ¹ (CVD) | | | | | | HC ¹ (PVD) | | | | | | HT | HC ² | HW | | | | | | | |
|---|------------|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| ISO | | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | RDKW0803MO | | | | | | ● | | | | | | | ● | | | | | | | | | |
| | RDKW10T3MO | ● | ○ | | | | ○ | | | ● | | | ● | | | | ○ | | | | | | |
| | RDKW1204MO | ● | | | ● | ● | | | | ● | ● | ● | ● | | | | ○ | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento


A
 Tornear
B
 Fresado
C
 Taladrar
D
 Información técnica
E
 Índice

A
Fresa para planear
FMR03


Tornear


B

Fresado

| Artículo | * Almacén | Dimensiones [mm] | | | | | | | Dientes | Placa  |
|-----------------------------|----------------------------------|------------------|----|----|----------------|-----|--------------------|---|----------|--|
| | | R | ØD | ød | L ₁ | L | a _{p max} | | | |
| FMR03-015-G16-XS-RD0702-02 | <input type="radio"/> | 3,5 | 15 | 16 | 40 | 88 | 3,5 | 2 | RDKW0702 | |
| FMR03-015-G16-XS-RD0702-02C | <input checked="" type="radio"/> | 3,5 | 15 | 16 | 40 | 88 | 3,5 | 2 | | |
| FMR03-015-G16-S-RD0702-02C | <input checked="" type="radio"/> | 3,5 | 15 | 16 | 60 | 108 | 3,5 | 2 | | |
| FMR03-015-G20-M-RD0702-02C | <input checked="" type="radio"/> | 3,5 | 15 | 20 | 80 | 130 | 3,5 | 2 | | |
| FMR03-015-G25-XL-RD0702-02C | <input checked="" type="radio"/> | 3,5 | 15 | 25 | 120 | 176 | 3,5 | 2 | | |
| FMR03-020-G20-XS-RD1003-02C | <input checked="" type="radio"/> | 5 | 20 | 20 | 40 | 90 | 5 | 2 | RDKW1003 | |
| FMR03-020-G20-S-RD1003-02C | <input checked="" type="radio"/> | 5 | 20 | 20 | 60 | 110 | 5 | 2 | | |
| FMR03-020-G25-M-RD1003-02C | <input checked="" type="radio"/> | 5 | 20 | 25 | 80 | 136 | 5 | 2 | | |
| FMR03-020-G25-L-RD1003-02C | <input checked="" type="radio"/> | 5 | 20 | 25 | 100 | 156 | 5 | 2 | | |
| FMR03-020-G25-XL-RD1003-02C | <input checked="" type="radio"/> | 5 | 20 | 25 | 120 | 176 | 5 | 2 | | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior




C

Taladrar

D




Información técnica

Piezas de recambio

| | Placa | RDKW0702 | RDKW1003 |  |
|--|-------|-------------------------|-------------------------|--|
| | ØD | 15 | 20 | |
|  Tornillo (placa) | | I60M2.5*5.0 (1,0 Nm) | I60M3.5*7.7 (2,7 Nm) | |
|  Llave (placa) | | WT07P | WT15P | |

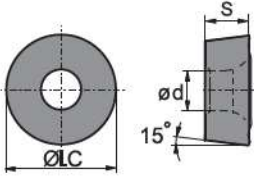

E

Índice

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

| | | | |
|-------|-----|------|-----|
| RDKW | I.C | S | d |
| 07 02 | 7 | 2,38 | 2,7 |
| 10 03 | 10 | 3,18 | 3,9 |

Placa de fresado

| Placa de fresado RD** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|---|--------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | RDKW0702MO-1 | | | | | | ● | | | | | | | ● | | | | | | | | | |
| | RDKW0702MO-2 | | | | | | | | | ● | | | | | | | | | | | | | |
| | RDKW1003MO-1 | | | | ● | ● | | | | | ● | ● | ● | | | | | | | | | | |
| | RDKW1003MO-2 | | | | | | | | | | ● | | | | | | | | | | | | |
| | RDKW1003MO-3 | | | | ● | | | | | | | | ● | | | | | | | | | | |

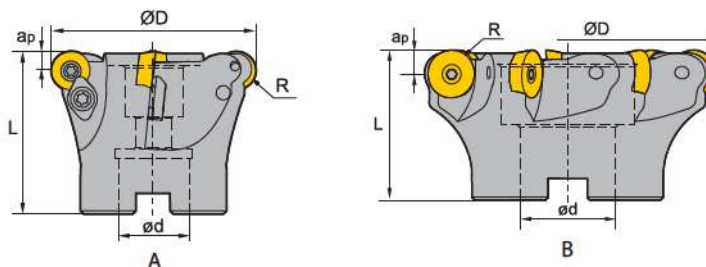
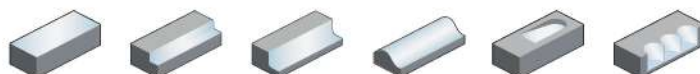
● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

| | |
|----------|---------------------|
| A | Tornear |
| B | Fresado |
| C | Taladrar |
| D | Información técnica |
| E | Índice |

A

Tornear

Fresa para planear
FMR04

B

Fresado

C

Taladrar

| Artículo | * Almacén | Dimensiones [mm] | | | | | Dientes | Alojamiento | kg | Placa |
|------------------------|-----------|------------------|-----|----|----|--------|---------|-------------|-----|----------|
| | | R | ØD | ød | L | ap max | | | | |
| FMR04-050-A22-RD12-03 | ● | 6 | 50 | 22 | 40 | 6 | 3 | A | 0,3 | RDKW1204 |
| FMR04-063-A22-RD12-04 | ● | 6 | 63 | 22 | 50 | 6 | 4 | A | 0,5 | |
| FMR04-080-B27-RD16-05 | ● | 8 | 80 | 27 | 50 | 8 | 5 | B | 1,2 | RDKW1605 |
| FMR04-100-B32-RD16-06 | ● | 8 | 100 | 32 | 50 | 8 | 6 | B | 1 | |
| FMR04-125-B40-RD20-06 | ○ | 10 | 125 | 40 | 63 | 10 | 6 | B | 1,9 | RDKW2006 |
| FMR04-125-B40-RD20-06C | * ○ | 10 | 125 | 40 | 63 | 10 | 6 | B | 1,9 | |
| FMR04-160-B40-RD20-07 | ○ | 10 | 160 | 40 | 63 | 10 | 7 | B | 3,7 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

D

Información técnica

Piezas de recambio

| | Placa | RDKW1204 | RDKW1605 | RDKW2006 |
|--|-------------------|------------------------|----------------------|----------------------|
| | ØD | 50-63 | 80-100 | 125-160 |
| | Gancho | WD-204 | WD-207 | |
| | Tornillo (gancho) | I60M4*10 (3,4 Nm) | I60M5*13 (6,7 Nm) | |
| | Tornillo (placa) | I60M3.5*10 (2,7 Nm) | I60M5*13 (6,7 Nm) | I43M6*16 (9,1 Nm) |
| | Llave (gancho) | WT15IP | | |
| | Llave (gancho) | | WT20IT | |
| | Llave (placa) | WT15IP | | |
| | Llave (placa) | | WT20IT | WT25IT |


E

Índice




Código de sistema > B26

Selección de tipos > B24

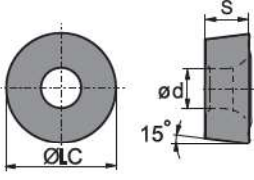


Información técnica > B463

Parametros > B224

| RDKW | I.C | S | d |
|-------|-----|------|-----|
| 12 04 | 12 | 4,76 | 4,4 |
| 16 05 | 16 | 5,56 | 5,5 |
| 20 06 | 20 | 6,35 | 6,5 |

-  Buenas condiciones de mecanizado
-  Condiciones normales de mecanizado
-  Condiciones desfavorables

Placa de fresado

| Placa de fresado RD** | | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|---|--------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|  | P | | | | | | | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | | | | | | | | | | | |
| | K | | | | | | | | | | | | | | | | | | | | | | |
| | N | | | | | | | | | | | | | | | | | | | | | | |
| | S | | | | | | | | | | | | | | | | | | | | | | |
| | H | | | | | | | | | | | | | | | | | | | | | | |
| | ISO | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YB9320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
|  | RDKW1204MO | ● | | | ● | ● | | | | ● | ● | ● | ● | ● | ○ | ○ | | | | | | | |
| | RDKW1605MO | | | | | ○ | | | | | | | | ● | ○ | ○ | | | | | | | |
| | RDKW2006MO | | ○ | | ● | | ○ | | | | | | | | | | | | | | | | |
|  | RDKW2006MO-3 | | | | | | | | | | | ● | | | | | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento

A Tornear

B Fresado

C Taladrar

D Información técnica

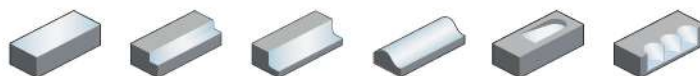
E Índice

Fresa de placas intercambiables Fresa para planear

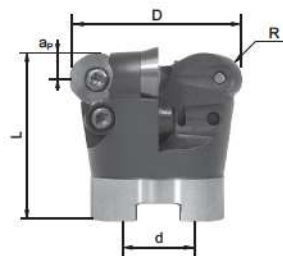
A

Fresa para planear

FMR04



Tornear



B

Fresado

C


Taladrar

D

Información técnica

E

Índice

| Artículo | * | Almacén | Dimensiones [mm] | | | | | Dientes | Placa  |
|--------------------------|---|---------|------------------|-----|----|----|--------------------|---------|--|
| | | | R | ØD | ød | L | a _p max | | |
| FMR04-042-A16-RD1003-06 | ● | ○ | 5 | 42 | 16 | 44 | 5 | 6 | RDKW1003 |
| FMR04-042-A16-RD1003-06C | * | ○ | 5 | 42 | 16 | 44 | 5 | 6 | |
| FMR04-052-A22-RD1003-07 | ● | ○ | 5 | 52 | 22 | 50 | 5 | 7 | |
| FMR04-052-A22-RD1003-07C | * | ○ | 5 | 52 | 22 | 50 | 5 | 7 | RDKW12T3 |
| FMR04-042-A16-RD12T3-05 | ● | ○ | 6 | 42 | 16 | 42 | 6 | 5 | |
| FMR04-042-A16-RD12T3-05C | * | ○ | 6 | 42 | 16 | 42 | 6 | 5 | |
| FMR04-052-A22-RD12T3-05 | ● | ○ | 6 | 52 | 22 | 50 | 6 | 5 | |
| FMR04-052-A22-RD12T3-05C | * | ○ | 6 | 52 | 22 | 50 | 6 | 5 | |
| FMR04-066-A27-RD12T3-06 | ● | ○ | 6 | 66 | 27 | 50 | 6 | 6 | |
| FMR04-066-A27-RD12T3-06C | * | ○ | 6 | 66 | 27 | 50 | 6 | 6 | RDKW1604 |
| FMR04-080-A27-RD12T3-07 | ● | ○ | 6 | 80 | 27 | 50 | 6 | 7 | |
| FMR04-080-A27-RD12T3-07C | * | ○ | 6 | 80 | 27 | 50 | 6 | 7 | |
| FMR04-052-A22-RD1604-04 | ● | ○ | 8 | 52 | 22 | 50 | 8 | 4 | |
| FMR04-052-A22-RD1604-04C | * | ○ | 8 | 52 | 22 | 50 | 8 | 4 | RDKW1604 |
| FMR04-066-A27-RD1604-05 | ● | ○ | 8 | 66 | 27 | 50 | 8 | 5 | |
| FMR04-066-A27-RD1604-05C | * | ○ | 8 | 66 | 27 | 50 | 8 | 5 | |
| FMR04-080-A27-RD1604-06 | ● | ○ | 8 | 80 | 27 | 52 | 8 | 6 | |
| FMR04-080-A27-RD1604-06C | * | ○ | 8 | 80 | 27 | 52 | 8 | 6 | |
| FMR04-100-B32-RD1604-07 | ● | ○ | 8 | 100 | 32 | 52 | 8 | 7 | |
| FMR04-100-B32-RD1604-07C | * | ○ | 8 | 100 | 32 | 52 | 8 | 7 | |
| FMR04-125-B40-RD1604-08 | ● | ○ | 8 | 125 | 40 | 52 | 8 | 8 | |
| FMR04-160-B40-RD1604-09 | ● | ○ | 8 | 160 | 40 | 52 | 8 | 9 | |
| FMR04-160-B40-RD1604-09C | * | ○ | 8 | 160 | 40 | 52 | 8 | 9 | |

● Desde el almacén ○ Bajo pedido

* Con refrigeración interior

Código de sistema > B26

Selección de tipos > B24

Información técnica > B463

Parámetros > B224

A

Tornear

B

Fresado

C

Taladrar

D

Información técnica

E

Índice

Piezas de recambio

| | Placa | RDKW1003 | RDKW12T3 | RDKW12T3 | RDKW1604 | RDKW1604 |
|--|-------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
| | ØD | 42-52 | 42 | 52-80 | 52 | 66-160 |
| | Gancho | | | | | WX16N |
| | Gancho | | | LOM3.5*7.1 | | |
| | Tornillo (gancho) | | | | | I60M4.5*10 (5,0 Nm) |
| | Tornillo (placa) | I60M3.5*7.7 (2,7 Nm) | I60M3.5*7.7 (2,7 Nm) | I60M3.5*7.7 (2,7 Nm) | I60M4.5*10 (5,0 Nm) | I60M4.5*10 (5,0 Nm) |
| | Llave (gancho) | | | WT15P | | |
| | Llave (gancho) | | | | | WT20T |
| | Llave (placa) | WT15P | WT15P | WT15P | | |
| | Llave (placa) | | | | WT20T | WT20T |

| RDKW | I.C | S | d |
|-------|-----|------|-----|
| 10 03 | 10 | 3,18 | 3,9 |
| 12 T3 | 12 | 3,97 | 3,9 |
| 16 04 | 16 | 4,76 | 5,2 |

- Buenas condiciones de mecanizado
- Condiciones normales de mecanizado
- Condiciones desfavorables

Placa de fresado

| Placa de fresado RD** | HC ¹ (CVD) | | | | | HC ¹ (PVD) | | | | | HT | HC ² | HW | | | | | | | | | |
|-----------------------|-----------------------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
| | P | M | K | N | S | H | P | M | K | N | S | H | P | M | K | N | S | H | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| ISO | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YBG320 | YBG205 | YBG202 | YBG212 | YBG302 | YBG152 | YBG252 | YNG151 | YNG151C | YD101 | YD201 | |
| RDKW1003MO-1 | | | | ● | ● | | | | | | ● | ● | ● | | | | | | | | | |
| RDKW1003MO-2 | | | | | | | | | ● | | | | | | | | | | | | | |
| RDKW1003MO-3 | | | | ● | | | | | | | | | | | | | | | | | | |
| RDKW12T3MO-1 | | | | ● | ● | | | | | | ● | ● | ● | | | | | | | | | |
| RDKW12T3MO-2 | | | | | | | | | ● | | | ○ | | | | | | | | | | |
| RDKW12T3MO-3 | | | | ● | | | | | | | | ● | | | | | | | | | | |
| RDKW1604MO-1 | | | | | | ● | | | | | ● | ● | ● | | ● | | | | | | | |
| RDKW1604MO-2 | | | | | | | | | | ○ | | | | | | | | | | | | |
| RDKW1604MO-3 | ○ | ○ | | ● | | | | ● | | | ○ | ● | | | ● | | | | | | | |

● Desde el almacén ○ Bajo pedido

HC¹ Metal duro con recubrimiento
 HT Cermet sin recubrimiento
 HC² Cermet con recubrimiento
 HW Metal duro sin recubrimiento