

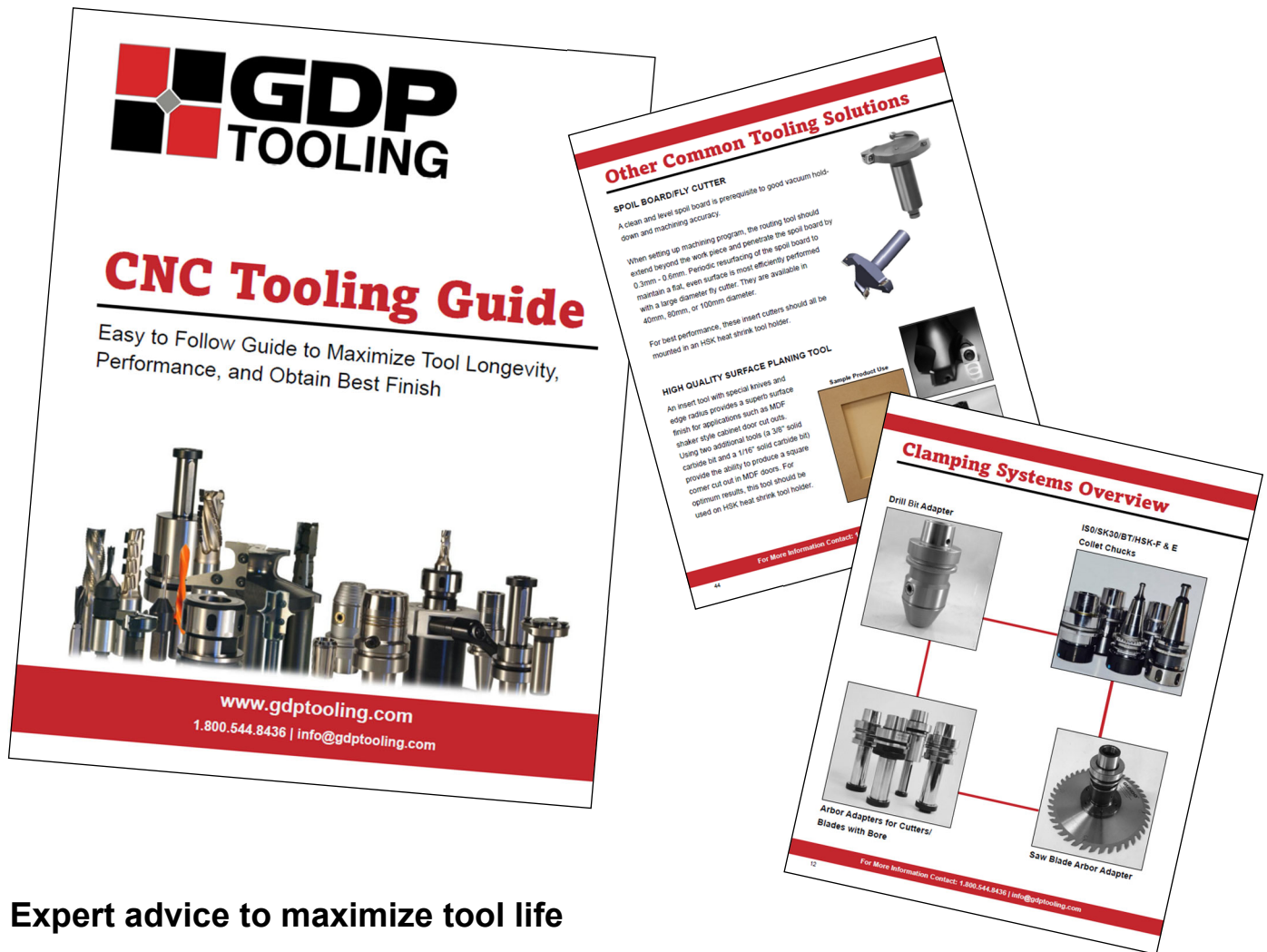


TOOLING PROGRAM

FOR WOOD, PLASTICS AND COMPOSITES

APPLICATION AND TROUBLESHOOTING INFORMATION

Download a copy of our **CNC Tooling Guide** using the QR code below or visit the “Resources” section of our website at www.gdptooling.com. You can also contact us for a free hard copy. Call 1-800-544-8436 or email us at info@gdptooling.com.



Expert advice to maximize tool life
Perfect for new, as well as experienced, CNC users



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ABOUT US

GUHDO USA Inc. (dba **GDP Tooling**) was founded in 1986 in Grand Rapids, MI in partnership with the principals of GUHDO Werk GmbH of Wermelskirchen. In the ensuing decades, the company built a stellar reputation for high quality, reasonably priced tooling solutions. This, coupled with an exemplary customer service track record, is the company's hallmark.

In 1997, the company headquarters was moved from Michigan to the metropolitan Atlanta, GA area. This relocation coincided with the acquisition of a new building and the establishment of a service/repair and production facility.

The company's partnership with GUHDO Germany ended in 2003, but GDP Tooling retains the North American exclusive licensing rights of the GUHDO brand and continues to import high-quality precision industrial saw blades manufactured at the GUHDO German factory. In cooperation with other strategic European manufacturing partners, GDP Tooling primarily serves the wood, composite and plastics industries while also supplying specialty cutting tools for PTFE skiving, paper mills and printed circuit board industries. The company's extensive precision cutting tool program includes tooling for planers, moulders, panel saws, tenoners, boring machines, routers, CNC machining centers, edge banders, and others.

SOLID CARBIDE COMPRESSION BITS

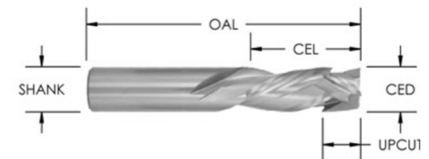
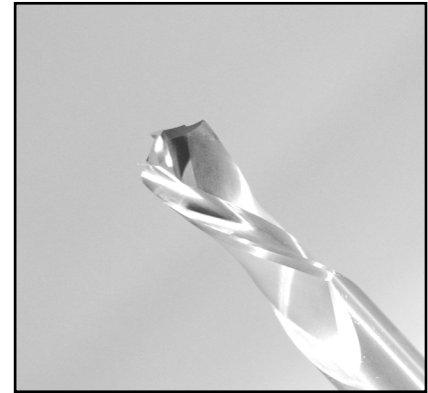
6229

Our solid carbide compression bits are available in several carbide grades and variations depending on the application.

2-FLUTE

GENERAL PURPOSE

| CED | CEL | OAL | Upcut | S | Item# |
|-------|--------|--------|-------|-------|-------------|
| 1/4" | 1" | 2-1/2" | 3/16" | 1/4" | 6229.250.50 |
| 5/16" | 1" | 3" | 3/16" | 5/16" | 6229.312.16 |
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.16 |
| 3/8" | 1-1/4" | 3" | 3/8" | 3/8" | 6229.375.20 |
| 3/8" | 1-1/2" | 4" | 3/8" | 3/8" | 6229.375.50 |
| 3/8" | 1" | 3" | 3/16" | 3/8" | 6229.376.16 |
| 1/2" | 1" | 3" | 5/16" | 1/2" | 6229.502.16 |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.16 |
| 1/2" | 1-1/4" | 3" | 5/16" | 1/2" | 6229.500.20 |
| 1/2" | 1-3/8" | 3-1/2" | 5/16" | 1/2" | 6229.502.50 |
| 1/2" | 1-5/8" | 3-1/2" | 3/16" | 1/2" | 6229.501.16 |
| 1/2" | 1-5/8" | 3-1/2" | 5/16" | 1/2" | 6229.501.20 |
| 1/2" | 2" | 4" | 5/16" | 1/2" | 6229.503.50 |
| 1/2" | 2-1/8" | 4" | 3/8" | 1/2" | 6229.500.18 |
| 5/8" | 2-1/4" | 5" | 3/18" | 5/8" | 6229.625.22 |
| 5/8" | 2-1/4" | 5" | 5/16" | 5/8" | 6229.625.40 |
| 3/4" | 2" | 4" | 7/8" | 3/4" | 6229.750.20 |
| 3/4" | 2-1/2" | 5" | 7/8" | 3/4" | 6229.752.75 |
| 3/4" | 3" | 6" | 7/8" | 3/4" | 6229.750.76 |
| 3/4" | 3-1/2" | 6" | 7/8" | 3/4" | 6229.750.78 |



3-FLUTE

GENERAL PURPOSE

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|-------------|
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.36 |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.26 |
| 1/2" | 1-1/4" | 3" | 7/16" | 1/2" | 6229.500.30 |
| 1/2" | 1-5/8" | 3-1/2" | 3/4" | 1/2" | 6229.501.26 |
| 1/2" | 2" | 4" | 7/8" | 1/2" | 6229.503.26 |
| 3/4" | 2" | 4" | 7/8" | 3/4" | 6229.750.22 |

2-FLUTE

FOR MDF/PARTICLEBOARD

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|--------------|
| 1/4" | 7/8" | 2-1/2" | 3/16" | 1/4" | 6229.250.27M |
| 1/4" | 1" | 2-1/2" | 3/16" | 1/4" | 6229.250.50M |
| 3/8" | 7/8" | 3" | 3/16" | 3/8" | 6229.375.27M |
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.16M |
| 3/8" | 1-1/4" | 3" | 3/8" | 3/8" | 6229.375.20M |
| 1/2" | 1-1/8" | 2-1/2" | 3/16" | 1/2" | 6229.500.11M |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.16M |
| 1/2" | 1-1/4" | 3" | 5/16" | 1/2" | 6229.500.20M |
| 1/2" | 1-3/8" | 3-1/2" | 5/16" | 1/2" | 6229.502.50M |
| 1/2" | 1-5/8" | 3-1/2" | 3/16" | 1/2" | 6229.501.16M |
| 1/2" | 1-5/8" | 3-1/2" | 5/16" | 1/2" | 6229.501.20M |
| 1/2" | 1-3/4" | 3-1/2" | 3/4" | 1/2" | 6229.504.20M |
| 1/2" | 2" | 4" | 5/16" | 1/2" | 6229.503.20M |
| 3/4" | 2" | 4" | 7/8" | 3/4" | 6229.750.20M |

SOLID CARBIDE COMPRESSION BITS continued

6229

3-FLUTE

FOR MDF/PARTICLEBOARD

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|--------------|
| 3/8" | 7/8" | 3" | 3/16" | 3/8" | 6229.375.37M |
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.36M |
| 1/2" | 7/8" | 2-1/2" | 3/16" | 1/2" | 6229.500.28M |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.26M |
| 1/2" | 1-1/4" | 3" | 7/16" | 1/2" | 6229.500.30M |
| 1/2" | 1-5/8" | 3-1/2" | 3/4" | 1/2" | 6229.501.26M |

2-FLUTE COATED

FOR MDF/PARTICLEBOARD

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|---------------|
| 1/4" | 7/8" | 2-1/2" | 1/4" | 1/4" | 6229.250.78MC |
| 3/8" | 7/8" | 3" | 3/16" | 3/8" | 6229.375.78MC |
| 3/8" | 1" | 3" | 3/16" | 3/8" | 6229.375.76MC |
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.16MC |
| 3/8" | 1-1/4" | 3" | 3/8" | 3/8" | 6229.375.20MC |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.16MC |
| 1/2" | 1-1/4" | 3" | 1/2" | 1/2" | 6229.500.20MC |
| 1/2" | 1-5/8" | 3-1/2" | 5/16" | 1/2" | 6229.501.16MC |
| 1/2" | 1-5/8" | 3-1/2" | 5/8" | 1/2" | 6229.501.20MC |

3-FLUTE COATED

FOR MDF/PARTICLEBOARD

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|---------------|
| 3/8" | 7/8" | 3" | 3/16" | 3/8" | 6229.375.37MC |
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.36MC |
| 1/2" | 1-1/4" | 3" | 3/8" | 1/2" | 6229.500.30MC |
| 1/2" | 1-5/8" | 3-1/2" | 5/8" | 1/2" | 6229.501.26MC |

2-FLUTE XTREME

FOR MELAMINE

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|--------------|
| 3/8" | 7/8" | 3" | 3/16" | 3/8" | 6229.375.27X |
| 3/8" | 1" | 3" | 3/16" | 3/8" | 6229.376.16X |
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.16X |
| 3/8" | 1-1/4" | 3" | 3/8" | 3/8" | 6229.375.20X |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.16X |
| 1/2" | 1-1/4" | 3" | 7/16" | 1/2" | 6229.500.20X |
| 1/2" | 1-5/8" | 3-1/2" | 5/16" | 1/2" | 6229.501.26X |
| 1/2" | 2" | 4" | 5/8" | 1/2" | 6229.503.50X |

3-FLUTE XTREME

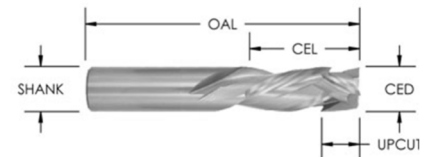
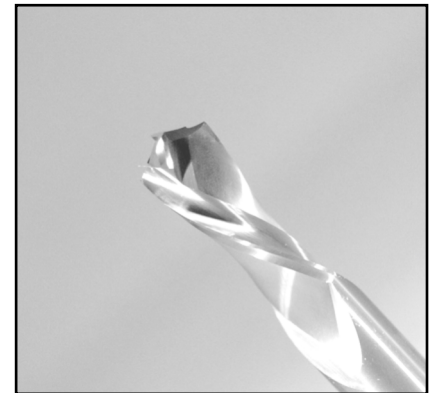
FOR MELAMINE

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|--------------|
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.36X |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.26X |
| 1/2" | 1-5/8" | 3-1/2" | 5/8" | 1/2" | 6229.501.36X |
| 1/2" | 2" | 4" | 5/8" | 1/2" | 6229.503.26X |

3-FLUTE XTREME COATED

FOR MELAMINE

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|--------|-------|------|---------------|
| 3/8" | 1-1/4" | 3" | 3/16" | 3/8" | 6229.375.36XC |
| 1/2" | 1-1/4" | 3" | 3/16" | 1/2" | 6229.500.26XC |
| 1/2" | 1-5/8" | 3-1/2" | 3/4" | 1/2" | 6229.501.26XC |



SOLID CARBIDE COMPRESSION BITS continued

6229

**2-FLUTE
(WITH CHIPBREAKERS)**

FOR PLYWOOD

X* = For harder plywood (Russian Birch)

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|-----|-------|------|--------------|
| 3/8" | 1" | 3" | 3/16" | 3/8" | 6229C376.16X |
| 3/8" | 1-1/4" | 3" | 3/8" | 3/8" | 6229C375.20 |
| 1/2" | 1-1/8" | 3" | 3/16" | 1/2" | 6229C500.16X |
| 1/2" | 1-1/4" | 3" | 5/16" | 1/2" | 6229C500.20 |
| 3/4" | 2" | 4" | 5/16" | 3/4" | 6229C750.20 |
| 3/4" | 2-1/2" | 5" | 7/8" | 3/4" | 6229C751.20 |



CUSTOM SIZES AND DIMENSIONS ARE AVAILABLE, USUALLY WITH MINIMUM QUANTITIES OF TEN (10) PIECES.

SOLID CARBIDE DOWN CUT BIT

6227-6228D

Solid carbide bit designed for chip-free cutting of materials when machining in a face up position and only the top surface quality is critical. Also the right choice for cutting dados/grooves and rebates cuts.

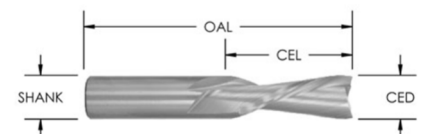
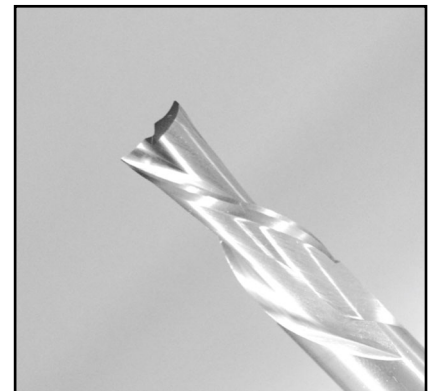
2-FLUTE

GENERAL PURPOSE

M* = carbide grade best for wood composites

X** = carbide grade best for melamine

| CED | CEL | OAL | S | Item# |
|-------|--------|--------|-------|---------------|
| 3/32" | 1/2" | 2" | 1/4" | 6228R094D14 |
| 1/8" | 1/2" | 2" | 1/4" | 6228R125D14 |
| 1/8" | 3/4" | 2-1/2" | 1/4" | 6228R125D15 |
| 5/32" | 3/4" | 2" | 1/4" | 6228R156D14 |
| 3/16" | 3/4" | 2" | 1/4" | 6228R187D14 |
| 3/16" | 7/8" | 2" | 1/4" | 6228R187D16 |
| 7/32" | 3/4" | 2" | 1/4" | 6228R218D14 |
| 1/4" | 1" | 2-1/2" | 1/4" | 6228R250D14 |
| 1/4" | 1" | 2-1/2" | 1/4" | 6228R250D14M* |
| 1/4" | 1-1/2" | 3-1/2" | 1/4" | 6228R252D14 |
| 1/4" | 1-1/4" | 3" | 1/4" | 6228R251D14 |
| 1/4" | 3/4" | 2-1/2" | 1/4" | 6228R253D14 |
| 9/32" | 1" | 2-1/2" | 3/8" | 6228R281D38 |
| 9/32" | 1" | 2-1/2" | 5/16" | 6228R281D40 |
| 9/32" | 3/4" | 3" | 1/4" | 6228R281D14 |
| 5/16" | 1" | 3" | 1/2" | 6228R312D13 |
| 5/16" | 1-1/8" | 3" | 5/16" | 6228R312D12 |



SOLID CARBIDE DOWN CUT BIT continued

6227-6228D

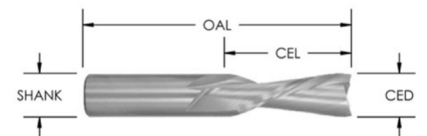
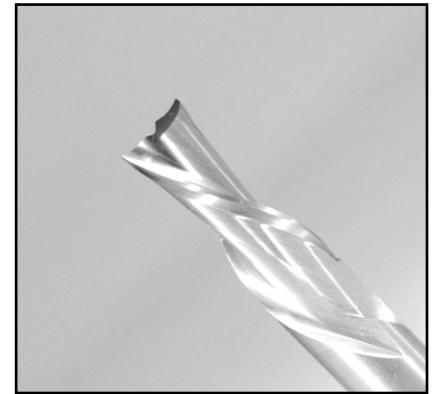
2-FLUTE

GENERAL PURPOSE

M* = carbide grade best for wood composites

X** = carbide grade best for melamine

| CED | CEL | OAL | S | Item# |
|--------|--------|--------|------|----------------|
| 3/8" | 1" | 3" | 3/8" | 6228R375D38 |
| 3/8" | 1" | 3" | 3/8" | 6228R375D38M* |
| 3/8" | 1" | 3" | 3/8" | 6228R375D38X** |
| 3/8" | 1-1/8" | 3" | 3/8" | 6228R375D37 |
| 3/8" | 1-1/4" | 3" | 3/8" | 6228R375D36 |
| 3/8" | 1-1/4" | 3" | 3/8" | 6228R375D36X** |
| 3/8" | 2" | 4" | 3/8" | 6228R375D28 |
| 7/16" | 1-1/4" | 3" | 1/2" | 6228R437D12 |
| 1/2" | 1" | 2-1/2" | 1/2" | 6228R500D11 |
| 1/2" | 1" | 3" | 1/2" | 6228R500D11X** |
| 1/2" | 1-1/4" | 3" | 1/2" | 6228R500D12 |
| 1/2" | 1-1/4" | 3" | 1/2" | 6228R500D12M* |
| 1/2" | 1-1/4" | 3" | 1/2" | 6228R500D12X** |
| 1/2" | 1-1/2" | 3-1/2" | 1/2" | 6228R500D13 |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6228R500D15 |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6228R500D15M* |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6228R500D15X** |
| 1/2" | 2" | 4" | 1/2" | 6228R500D14 |
| 17/32" | 1-1/8" | 3" | 1/2" | 6228R531D12 |
| 9/16" | 1-1/4" | 3-1/2" | 1/2" | 6228R563D12 |
| 5/8" | 1-5/8" | 3-1/2" | 5/8" | 6228R625D58 |
| 5/8" | 2" | 4" | 5/8" | 6228R625D60 |
| 3/4" | 1-1/2" | 3-1/2" | 3/4" | 6228R750D34 |
| 3/4" | 2" | 4" | 3/4" | 6228R750D60 |
| 3/4" | 2-1/2" | 5" | 3/4" | 6228R755D60 |
| 3/4" | 3" | 6" | 3/4" | 6228R751D60 |
| 3/4" | 3-1/4" | 6" | 3/4" | 6228R752D60 |
| 3/4" | 3-1/2" | 6" | 3/4" | 6228R753D60 |
| 3/4" | 4-1/4" | 7" | 3/4" | 6228R754D60 |



3-FLUTE

GENERAL PURPOSE

| CED | CEL | OAL | S | Item# |
|------|--------|--------|------|-------------|
| 1/4" | 1" | 2-1/2" | 1/4" | 6227.250D14 |
| 3/8" | 1-1/4" | 3" | 3/8" | 6227.375D38 |
| 1/2" | 1-1/4" | 3" | 1/2" | 6227.500D12 |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6227.500D14 |
| 1/2" | 2" | 4" | 1/2" | 6227.500D13 |
| 5/8" | 2" | 4" | 5/8" | 6227.625D58 |
| 3/4" | 1-5/8" | 4" | 3/4" | 6227.750D76 |
| 3/4" | 2" | 4" | 3/4" | 6227.750D75 |
| 3/4" | 3" | 6" | 3/4" | 6227.750D77 |

UP CUT BIT (2-FLUTE)

6227-6228U

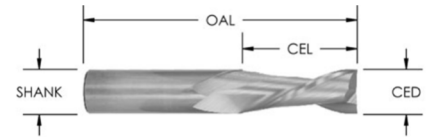
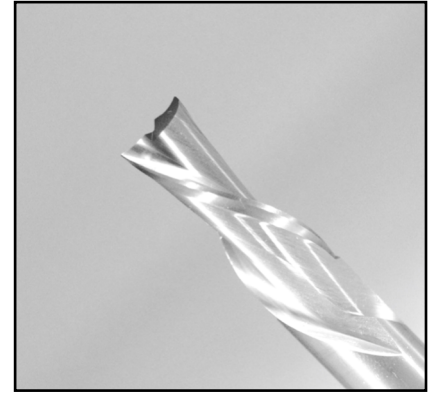
Solid carbide bit designed specifically for chip free cutting when machining in a face down position. Also suitable for occasional need to cut solid surface material.

2-FLUTE

GENERAL PURPOSE

X** = carbide grade best for melamine

| CED | CEL | OAL | S | Item# |
|--------|---------|--------|-------|----------------|
| 3/32" | 1/2" | 2" | 1/4" | 6228R094U14 |
| 1/8" | 1/2" | 2" | 1/4" | 6228R125U14 |
| 1/8" | 9/16" | 2" | 1/4" | 6228R125U96 |
| 1/8" | 1-1/16" | 3" | 1/8" | 6228R125U18 |
| 5/32" | 3/4" | 2" | 1/4" | 6228R156U14 |
| 3/16" | 3/4" | 2" | 1/4" | 6228R187U14 |
| 3/16" | 1" | 2-1/2" | 1/4" | 6228R187U15 |
| 7/32" | 3/4" | 2" | 1/4" | 6228R218U14 |
| 1/4" | 1" | 2-1/2" | 1/4" | 6228R250U14 |
| 1/4" | 1-1/4" | 3" | 1/4" | 6228R251U14 |
| 5/16" | 1" | 3" | 5/16" | 6228R312U12 |
| 5/16" | 1" | 3" | 1/2" | 6228R312U13 |
| 5/16" | 1-1/8" | 3" | 1/2" | 6228R312U14 |
| 3/8" | 7/8" | 3" | 3/8" | 6228R375U78 |
| 3/8" | 1" | 3" | 3/8" | 6228R375U38 |
| 3/8" | 1" | 3" | 3/8" | 6228R375U18X** |
| 3/8" | 1" | 3" | 3/8" | 6228R375U18X** |
| 3/8" | 1-1/4" | 3" | 3/8" | 6228R375U12X** |
| 3/8" | 2" | 4" | 3/8" | 6228R375U28 |
| 7/16" | 1-1/4" | 3" | 1/2" | 6228R437U12 |
| 1/2" | 1" | 3" | 1/2" | 6228R500U11X** |
| 1/2" | 1-1/4" | 3" | 1/2" | 6228R500U12 |
| 1/2" | 1-1/4" | 3" | 1/2" | 6228R500U12X** |
| 1/2" | 1-1/2" | 3-1/2" | 1/2" | 6228R500U13 |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6228R500U15 |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6228R500U15X** |
| 1/2" | 2" | 4" | 1/2" | 6228R500U14 |
| 1/2" | 2-1/2" | 5" | 1/2" | 6228R500U16 |
| 17/32" | 1-1/8" | 3" | 1/2" | 6228R531U12 |
| 9/16" | 1-1/4" | 3-1/2" | 1/2" | 6228R563U12 |
| 5/8" | 1-1/2" | 3-1/2" | 5/8" | 6228R625U58 |
| 5/8" | 2" | 4" | 5/8" | 6228R625U60 |
| 3/4" | 1-5/8" | 4" | 3/4" | 6228R750U34 |
| 3/4" | 2" | 4" | 3/4" | 6228R750U60 |
| 3/4" | 2-1/2" | 5" | 3/4" | 6228R751U61 |
| 3/4" | 3" | 6" | 3/4" | 6228R751U60 |
| 3/4" | 3-1/4" | 6" | 3/4" | 6228R752U60 |
| 3/4" | 3-1/2" | 6" | 3/4" | 6228R753U60 |
| 3/4" | 6" | 9" | 3/4" | 6228R757U60 |



Solid carbide with same application as 6228 up cut bit, but 3-flute provides a faster feed rate (600"/min+).

3-FLUTE

GENERAL PURPOSE

| CED | CEL | OAL | S | Item# |
|------|--------|--------|------|-------------|
| 3/8" | 1-1/4" | 3" | 3/8" | 6227.375U38 |
| 1/2" | 1-1/4" | 3" | 1/2" | 6227.500U12 |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6227.500U14 |
| 1/2" | 2" | 4" | 1/2" | 6227.500U13 |
| 3/4" | 1-1/2" | 4" | 3/4" | 6227.750U76 |
| 3/4" | 2" | 4" | 3/4" | 6227.750U75 |
| 3/4" | 3" | 6" | 3/4" | 6227.750U77 |

GIGASPEED COMPRESSION BIT

6226

This spiral, 3-flute compression finishing cutter is a great choice for grooving, jointing, and sizing challenging materials including long-fibered wood species (e.g. bamboo) and very soft wood species (e.g. poplar plywood). It's also a good choice for veneered and paper laminated panels as well as routing through gypsum panels.

3-FLUTE

| CED | CEL | OAL | Upcut | S | Item# |
|------|------|-------|-------|------|-------------|
| 8mm | 20mm | 80mm | 6mm | 8mm | 6226.080.20 |
| 10mm | 25mm | 90mm | 6mm | 10mm | 6226.100.25 |
| 12mm | 30mm | 100mm | 6mm | 12mm | 6226.120.30 |
| 12mm | 40mm | 100mm | 6mm | 12mm | 6226.120.40 |
| 20mm | 45mm | 130mm | 10mm | 20mm | 6226.200.45 |
| 20mm | 50mm | 130mm | 10mm | 20mm | 6226.200.50 |
| 20mm | 55mm | 130mm | 10mm | 20mm | 6226.200.55 |



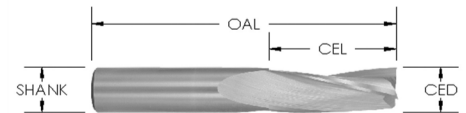
LOW HELIX UP CUT FOR SOLID SURFACE

6227S

This 3-flute, slow spiral up cut bit provides an excellent finish and is the tool of choice for machining solid surface materials such as: Corian, Avonite, HI-MACS, LivingStone, Staron, Hanex, Meganite, Everform, Formica, Wilsonart, and others.

3-FLUTE

| CED | CEL | OAL | S | Item# |
|------|--------|--------|------|-------------|
| 1/4" | 1" | 2-1/2" | 1/4" | 6227S250U14 |
| 3/8" | 3/4" | 3" | 3/8" | 6227S375U38 |
| 3/8" | 1-1/4" | 3" | 3/8" | 6227S375U12 |
| 1/2" | 3/4" | 3" | 1/2" | 6227S500U10 |
| 1/2" | 1-1/8" | 3" | 1/2" | 6227S500U11 |
| 1/2" | 1-1/2" | 4" | 1/2" | 6227S500U15 |
| 3/4" | 2" | 4" | 3/4" | 6227S750U78 |



SOLID CARBIDE STRAIGHT BIT

6209

This tool is perfect for clean "square corner" cutouts when machining MDF shaker doors.

SINGLE FLUTE

| CED | CEL | OAL | S | Item# |
|-------|------|--------|------|-------------|
| 1/16" | 1/4" | 1-1/2" | 1/4" | 6209.116.00 |



SOLID CARBIDE STRAIGHT BIT

6210

2-FLUTE

| CED | CEL | OAL | S | Item# |
|-------|--------|--------|------|-------------|
| 3/32" | 5/16" | 1-1/2" | 1/4" | 6210.332.00 |
| 1/8" | 3/8" | 1-1/2" | 1/4" | 6210.018.00 |
| 5/32" | 3/8" | 2" | 1/4" | 6210.532.00 |
| 3/16" | 1/2" | 2" | 1/4" | 6210.316.00 |
| 7/32" | 3/4" | 2" | 1/4" | 6210.732.00 |
| 1/4" | 3/4" | 2" | 1/4" | 6210.250.00 |
| 1/4" | 1" | 2-1/2" | 1/4" | 6210.251.00 |
| 5/16" | 1" | 2-1/2" | 3/8" | 6210.516.00 |
| 3/8" | 1" | 2-1/2" | 3/8" | 6210.375.00 |
| 1/2" | 1-1/4" | 3" | 1/2" | 6210.500.00 |
| 1/2" | 1-5/8" | 3-1/2" | 1/2" | 6210.501.00 |



SOLID CARBIDE ENGRAVING BIT

6208

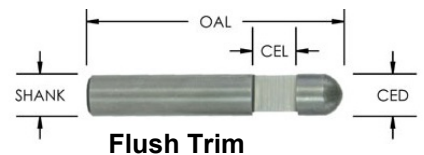
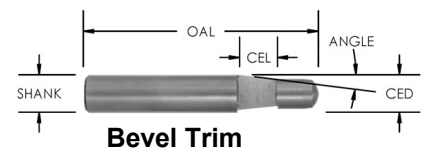
| CED | CEL | Angle | OAL | S | Item# |
|------|-------|-----------|--------|------|-------------|
| 1/4" | 7/32" | 60 degree | 1-1/2" | 1/4" | 6208.250.60 |
| 1/4" | 1/8" | 90 degree | 1-1/2" | 1/4" | 6208.250.90 |



SOLID CARBIDE FLUSH AND BEVEL TRIM BITS

6207

| CED | CEL | S | OAL | Description | Item# |
|------|------|------|--------|----------------|-------------|
| 1/4" | 1/4" | 1/4" | 1-1/2" | 7 degree bevel | 6207.250.BT |
| 1/4" | 1/4" | 1/4" | 1-1/2" | Flush Trim | 6207.250.FT |



SINGLE FLUTE INSERT ROUTER BIT Z1

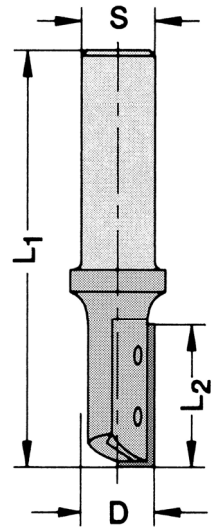
6217

Constant cutting circle, mini reversible insert knife with abrasion resistant carbide. The insert has a cross-groove to insure perfect position and avoid any slipping during the cutting operation. 14mm diameter and larger will ramp-plunge only. Diameters up to 1/2" can plunge straight down.

For general routing operations such as grooving, jointing rebating in hardwood and various wood composite materials. For high wear applications, please select cutters with high density body material, designated by "HD" following the part number.

| D | L2 | S | OAL | Rotation | Item# |
|------|------|-------------|-------|----------|---------------|
| 8mm | 20mm | 10mm x 40mm | 70mm | RH | 6217.081.20 |
| 8mm | 20mm | 12mm x 40mm | 70mm | RH | 6217.082.20 |
| 8mm | 20mm | 12mm x 40mm | 80mm | RH | 6217.082.22HD |
| 9mm | 20mm | 10mm x 40mm | 70mm | RH | 6217.090.20 |
| 10mm | 25mm | 10mm x 40mm | 75mm | RH | 6217.101.20 |
| 10mm | 25mm | 12mm x 40mm | 80mm | RH | 6217.101.22HD |
| 10mm | 25mm | 12mm x 40mm | 75mm | RH | 6217.102.20 |
| 12mm | 30mm | 10mm x 40mm | 80mm | RH | 6217.120.20 |
| 12mm | 30mm | 12mm x 40mm | 80mm | RH | 6217.120.30 |
| 12mm | 30mm | 12mm x 40mm | 80mm | LH | 6217.120.31 |
| 12mm | 30mm | 12mm x 40mm | 90mm | RH | 6217.120.33HD |
| 12mm | 30mm | 12mm x 40mm | 90mm | LH | 6217.120.34HD |
| 1/2" | 30mm | 1/2" x 40mm | 80mm | RH | 6217.127.30 |
| 1/2" | 30mm | 1/2" x 40mm | 80mm | LH | 6217.127.31 |
| 14mm | 30mm | 10mm x 40mm | 80mm | RH | 6217.140.20 |
| 14mm | 30mm | 12mm x 40mm | 80mm | RH | 6217.140.30 |
| 14mm | 30mm | 12mm x 40mm | 80mm | LH | 6217.140.31 |
| 16mm | 50mm | 12mm x 40mm | 100mm | RH | 6217.160.50 |

Replacement Inserts:
 Item# 4201.021.11 (for Diameter 8mm, 9mm, and 3/8")
 Item# 4201.020.11 (for Diameter 12mm, 20mm)
 Item# 4201.025.11 (for Diameter 10mm, 11mm)
 Item# 4201.030.11 (for Diameter 12mm, 14mm, and 1/2")
 Item# 4201.050.11 (for Diameter 16mm)



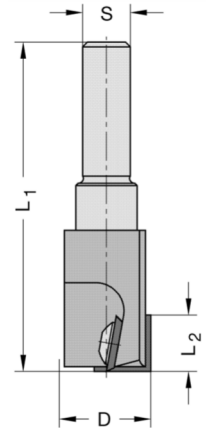
REBATE INSERT ROUTER BIT Z1+1

6219

Z1+1 carbide insert rebate bit with one (1) down cut peripheral insert and one (1) plunge insert. Economical tool for rebate cuts on laminated and coated surfaces. RH rotation.

| D | L1 | L2 | S | Rotation | Item# |
|------|------|------|-------------|----------|-------------|
| 16mm | 70mm | 12mm | 1/4" x 30mm | RH | 6219.160.12 |
| 16mm | 70mm | 12mm | 1/2" x 30mm | RH | 6219.161.12 |
| 18mm | 70mm | 12mm | 1/4" x 30mm | RH | 6219.180.12 |
| 18mm | 70mm | 12mm | 1/2" x 30mm | RH | 6219.181.12 |
| 20mm | 70mm | 12mm | 1/4" x 30mm | RH | 6219.200.12 |
| 20mm | 70mm | 12mm | 1/2" x 30mm | RH | 6219.201.12 |
| 24mm | 70mm | 12mm | 1/4" x 30mm | RH | 6219.240.12 |
| 24mm | 70mm | 12mm | 1/2" x 30mm | RH | 6219.241.12 |

Replacement Inserts:
 Item# 4200.012.00 (peripheral insert)
 Item# 4200.008.00 (plunge insert for Diameter 16mm, 18mm)
 Item# 4200.009.00 (plunge insert for Diameter 20mm)
 Item# 4200.012.00 (plunge insert for Diameter 24mm)



STRAIGHT INSERT ROUTER BIT Z1+1

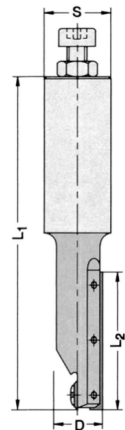
6219

For routing, sizing and jointing composite and solid surface panels. Insert plunge point. RH rotation.

| D | L2 | L1 | S | Rotation | Item# |
|------|------|------|-------------|----------|-------------|
| 16mm | 30mm | 81mm | 12mm x 40mm | RH | 6219.162.30 |
| 18mm | 30mm | 81mm | 12mm x 40mm | RH | 6219.181.30 |
| 20mm | 30mm | 81mm | 12mm x 40mm | RH | 6219.201.30 |
| 22mm | 30mm | 81mm | 12mm x 30mm | RH | 6219.221.30 |

| D | L2 | L1 | S | Rotation | Item# |
|------|------|-------|-------------|----------|-------------|
| 18mm | 50mm | 116mm | 25mm x 55mm | RH | 6219.180.50 |
| 3/4" | 50mm | 110mm | 3/4" x 50mm | RH | 6219.190.50 |
| 20mm | 50mm | 116mm | 25mm x 55mm | RH | 6219.200.50 |

Replacement Inserts:
 Item# 4201.030.11 (insert knife; for L2 = 30mm)
 Item# 4201.050.11 (insert knife; for L2 = 50mm)
 Item# 4200.012.00 (plunge insert knife)



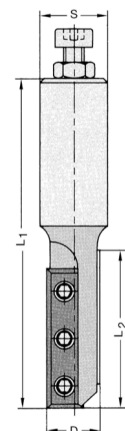
STRAIGHT INSERT ROUTER BIT Z2

6225

For routing, sizing, rebating and jointing wood and composite materials requiring a finish without lines from overlapping inserts. Two offset, four-sided, solid carbide inserts. This tool can be used for both mechanical and manual feed.

| D | L2 | L1 | S | Rotation | Item# |
|------|------|-------|------|----------|-------------|
| 16mm | 55mm | 125mm | 3/4" | RH | 6225.160.34 |
| 18mm | 55mm | 125mm | 3/4" | RH | 6225.180.34 |
| 18mm | 55mm | 125mm | 3/4" | LH | 6225.180.35 |
| 20mm | 55mm | 125mm | 3/4" | RH | 6225.200.34 |
| 20mm | 55mm | 125mm | 3/4" | LH | 6225.200.35 |

Replacement Inserts: Item# 6419.050.00



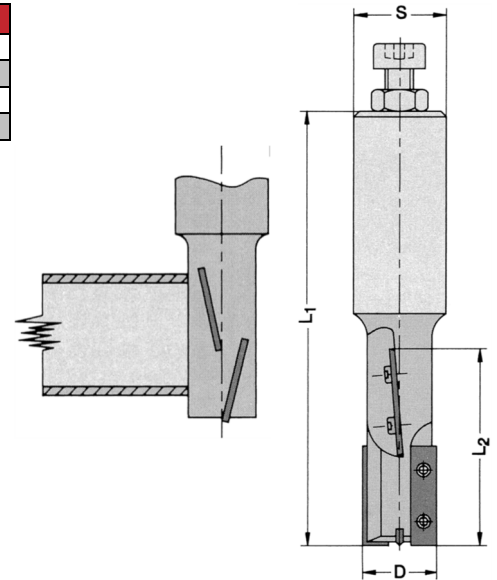
INSERT COMPRESSION ROUTER BIT Z2+2

6243

2-flute, compression style, insert router bit with reversible inserts positioned on opposite shear angles. 4-sided plunge tip. Provides chip free surface finish on laminated panel products, but also suitable for jointing, trimming and sizing solid wood. RH rotation.

| D | L2 | S | OAL | Item# |
|------|------|-------------|-------|-------------|
| 20mm | 33mm | 3/4" x 55mm | 110mm | 6243.039.34 |
| 20mm | 33mm | 25mm x 55mm | 110mm | 6243.039.25 |
| 20mm | 53mm | 3/4" x 55mm | 125mm | 6243.029.34 |
| 20mm | 53mm | 25mm x 55mm | 125mm | 6243.029.25 |

Replacement Inserts: Item# 6243.195.00 (for L2 = 33mm)
 Item# 6243.295.00 (for L2 = 53mm)



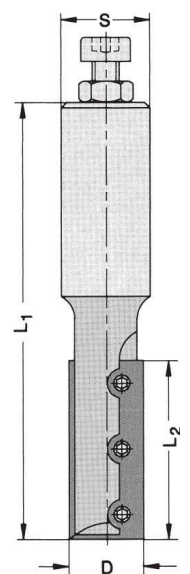
INSERT ROUTER BIT Z2

6218

2-flute router bit with straight, reversible solid carbide insert tips. Three-hole insert design. Bottom cutting for plunge capability. For jointing, trimming and rebating in solid wood and composite panels.

| D | L1 | L2 | S | Turn | Item# |
|------|-------|------|------|------|-------------|
| 25mm | 119mm | 50mm | 3/4" | RH | 6218.250.34 |
| 30mm | 118mm | 50mm | 3/4" | RH | 6218.300.34 |
| 25mm | 119mm | 50mm | 25mm | RH | 6218.250.50 |
| 30mm | 118mm | 50mm | 25mm | RH | 6218.300.50 |

Replacement Inserts: Item# 6419.050.00



PCD (DIAMOND) ROUTER BIT Z1+1, Z2+2

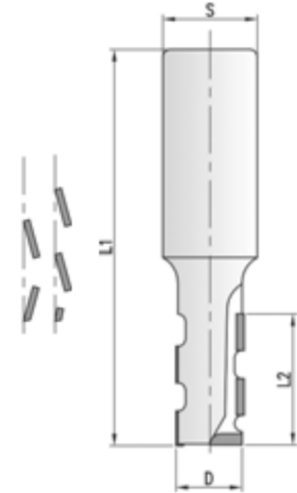
6811-6814

Economical polycrystalline diamond (PCD) router bit designed with a compression style shear and a carbide-tipped plunge point. Ideal for general routing of wood composite materials. Feed rate varies based on number of flutes. Can be sharpened one time.

SINGLE AND 2-FLUTE

S* = Solid Carbide tool body

| D | L2 | S | Flutes | OAL | Item# |
|------|--------|------|--------|--------|---------------|
| 1/2" | 1" | 1/2" | 1+1 | 3" | 6811.127.00 |
| 1/2" | 1" | 1/2" | 2+2 | 3" | 6814.127.00 |
| 1/2" | 1" | 1/2" | 2+2 | 3" | 6814.127.00S* |
| 1/2" | 1-1/2" | 1/2" | 1+1 | 3-1/2" | 6811.127.32 |
| 16mm | 35mm | 25mm | 1+1 | 105mm | 6811.160.35 |
| 3/4" | 1-5/8" | 3/4" | 1+1 | 3-3/4" | 6812.190.10 |
| 3/4" | 2" | 3/4" | 1+1 | 4-1/2" | 6812.191.20 |



| Design | Material | RPM | Feed (meters) | Feed (inches) |
|--------------|---------------|--------|---------------|---------------|
| Single Flute | MDF | 18,000 | 4m-6m/min | 150-230 |
| Single Flute | Particleboard | 18,000 | 5m-7m/min | 200-275 |
| Two Flute | MDF | 18,000 | 11m-14m/min | 400-550 |
| Two Flute | MDF | 24,000 | 14m-19m/min | 550-750 |
| Two Flute | Particleboard | 18,000 | 14m-18m/min | 550-700 |
| Two Flute | Particleboard | 24,000 | 19m-24m/min | 750-900 |

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25%-30%)

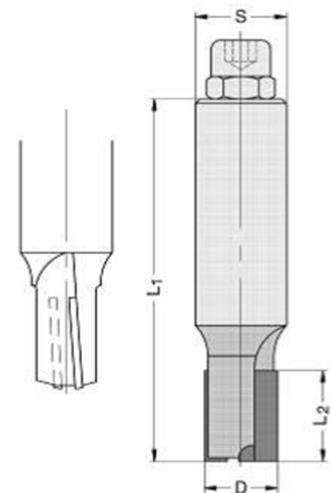
PCD (DIAMOND) ROUTER BIT Z2

6815

Solid carbide body with cutting geometry designed for abrasive and difficult-to-machine materials, for groove, rebate, jointing and sizing of MDF, HDF, HPL, CPL, trespas, corian, duroplastics, thermoplastics, and fiber-reinforced composites. The PCD tips are positioned on opposite shear angles to provide an excellent finish top and bottom. Suitable for both axial and ramp plunging operations.

2-FLUTE

| D | L2 | S | Flutes | OAL | Item# |
|------|------|------|--------|------|-------------|
| 3/8" | 22mm | 10mm | 2 | 70mm | 6815.953.00 |
| 1/2" | 22mm | 1/2" | 2 | 70mm | 6815.127.00 |
| 1/2" | 25mm | 1/2" | 2 | 70mm | 6815.127.10 |
| 8mm | 15mm | 8mm | 2 | 65mm | 6815.080.00 |
| 10mm | 15mm | 10mm | 2 | 75mm | 6815.100.00 |
| 12mm | 20mm | 12mm | 2 | 75mm | 6815.120.00 |
| 16mm | 20mm | 20mm | 2 | 80mm | 6815.160.00 |
| 16mm | 25mm | 16mm | 2 | 85mm | 6815.160.10 |



| Material | RPM | Feed (meters) | Feed (inches) |
|--------------------------|-----------|---------------|---------------|
| MDF/Particleboard | 18-24,000 | 12m-16m/min | 400-600 |
| Plywood Veneer | 18-24,000 | 6m-9m/min | 230-350 |
| Thermoplastics/Phenolics | 15-18,000 | 1m-5m/min | 40-195 |
| Solid Surface | 15-18,000 | 12m-14m/min | 400-550 |

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25%-30%)

HIGH SHEAR PCD (DIAMOND) ROUTER BIT Z3

6816

High Shear (PCD) router bit for high feed speeds and excellent finish quality when cutting wood or composite material. Tool has a high quality steel body, three-flute design. The unique 20° shear angle of the cutting tips delivers superior finish and the durability of polycrystalline diamond results in a very economic tool performance.

3-FLUTE

| D | L2 | S | Flutes | OAL | Item# |
|------|------|------|--------|-----|-------------|
| 1/2" | 24mm | 1/2" | 3+3 | 3" | 6816.127.00 |

| Material | RPM | Feed (meters) | Feed (inches) |
|-------------------|--------|---------------|---------------|
| MDF/Particleboard | 18,000 | 15m-19m/min | 600-750 |

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25%-30%)



PCD (DIAMOND) ROUTER BIT Z3

6818

This 3-flute PCD bit is designed for high speed nesting operations, for jointing, sizing, rebating and grooving in MDF, particleboard, OSB, and wide range of other abrasive materials. This tool features a solid carbide tool body for demanding applications. Diamond-tipped plunge point.

3-FLUTE

| D | L2 | L4 | L1 | S | Item# |
|------|------|-------|-------|------|-------------|
| 1/2" | 28mm | 7mm | 85mm | 1/2" | 6818.127.00 |
| 12mm | 22mm | 7mm | 75mm | 12mm | 6818.120.00 |
| 16mm | 29mm | 6.5mm | 100mm | 20mm | 6818.160.00 |
| 18mm | 52mm | 13mm | 130mm | 20mm | 6818.180.00 |

| Material | RPM | Feed (meters) | Feed (inches) |
|---------------|--------|---------------|---------------|
| MDF | 18,000 | 16m-21m/min | 600-850 |
| MDF | 24,000 | 21m-28m/min | 850-1,100 |
| Particleboard | 18,000 | 21m-27m/min | 850-1,100 |
| Particleboard | 24,000 | 28m-36m/min | 1,100-1,400 |

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25%-30%)



SOLID CARBIDE ROUGHER

6231

Roughing cutter for high feed speeds. RH rotation. Low helix design and LH rotation on request.

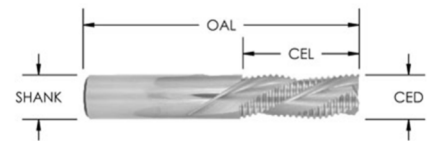
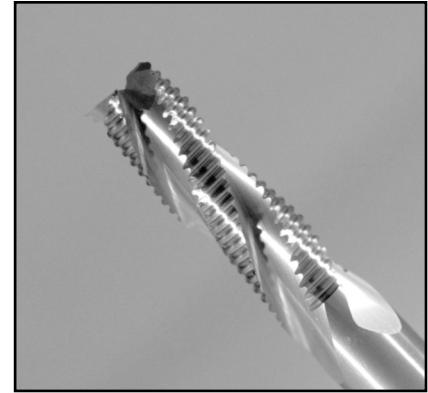
3-FLUTE UP CUT

| D | CEL | OAL | Flutes | S | Item# |
|------|--------|--------|--------|------|--------------|
| 3/8" | 7/8" | 2-1/2" | 3 | 3/8" | 6231.375U38* |
| 3/8" | 1-1/4" | 3" | 3 | 3/8" | 6231.375U12 |
| 1/2" | 1-1/4" | 3" | 3 | 1/2" | 6231.500U12 |
| 1/2" | 1-1/2" | 3-1/2" | 3 | 1/2" | 6231.500U13 |
| 1/2" | 1-5/8" | 3-1/2" | 3 | 1/2" | 6231.500U15 |
| 1/2" | 1-3/4" | 4" | 3 | 1/2" | 6231.500U14 |
| 1/2" | 2" | 4" | 3 | 1/2" | 6231.500U16 |
| 5/8" | 2-1/8" | 4" | 3 | 5/8" | 6231.625U60 |
| 3/4" | 2" | 4" | 3 | 3/4" | 6231.750U34 |
| 3/4" | 2-1/2" | 5" | 3 | 3/4" | 6231.754U34 |
| 3/4" | 3" | 6" | 3 | 3/4" | 6231.751U34 |
| 3/4" | 3-1/4" | 6" | 3 | 3/4" | 6231.752U34 |
| 3/4" | 3-1/2" | 6" | 3 | 3/4" | 6231.753U34 |
| 3/4" | 4" | 6" | 3 | 3/4" | 6231.755U34 |
| 3/4" | 4" | 6-1/2" | 3 | 3/4" | 6231.756U34 |

* for Castle pocket

3-FLUTE DOWN CUT

| D | CEL | OAL | Flutes | S | Item# |
|------|--------|--------|--------|------|-------------|
| 3/8" | 7/8" | 2-1/2" | 3 | 3/8" | 6231.375D13 |
| 3/8" | 1-1/4" | 3" | 3 | 3/8" | 6231.375D12 |
| 1/2" | 1-1/4" | 3" | 3 | 1/2" | 6231.500D11 |
| 1/2" | 1-1/2" | 3-1/2" | 3 | 1/2" | 6231.500D13 |
| 1/2" | 1-5/8" | 4" | 3 | 1/2" | 6231.500D15 |
| 1/2" | 1-3/4" | 4" | 3 | 1/2" | 6231.500D14 |
| 1/2" | 2" | 4" | 3 | 1/2" | 6231.500D16 |
| 5/8" | 2" | 4" | 3 | 5/8" | 6231.625D60 |
| 3/4" | 2" | 4" | 3 | 3/4" | 6231.750D34 |
| 3/4" | 2-1/2" | 5" | 3 | 3/4" | 6231.754D34 |
| 3/4" | 3" | 6" | 3 | 3/4" | 6231.751D34 |
| 3/4" | 3-1/4" | 6" | 3 | 3/4" | 6231.752D34 |
| 3/4" | 3-1/2" | 6" | 3 | 3/4" | 6231.753D34 |



CARBIDE/PCD INSERT ROUGHING BIT

6248

This insert bit is designed for roughing applications, sizing, jointing, rebating of wood and a wide variety of composite panel products on CNC machines. High cutting performance and excellent chip removal resulting from helical positioning of the four-sided, special grind inserts. Ramp plunging is recommended when entering material. Solid tool construction and highly accurate and secure insert positioning. RH rotation.

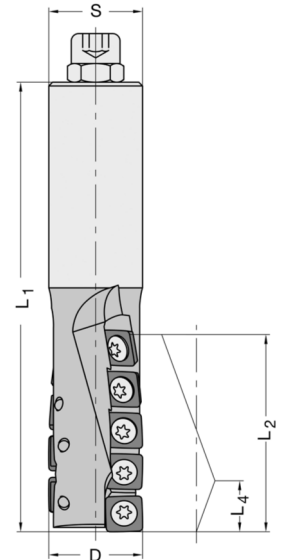
This tool is available with either PCD or solid carbide inserts, and both can be combined on the same tool, such as placing PCD inserts where abrasive laminate line is prevalent.

This tool is a two flute design (Z2), but bears mentioning that the uppermost 4mm toward the shank is Z1. Both PCD and tungsten carbide inserts are four-sided.

Recommended RPM: 18,000-24,000. Recommended feed rate: 8m-15m/min.

| D | CEL | L4 | OAL | S | Inserts | Item# |
|------|------|--------|-------|------|---------|-------------|
| 25mm | 54mm | 13.9mm | 120mm | 25mm | 10/TC | 6248.250.25 |
| 25mm | 54mm | 13.9mm | 120mm | 25mm | 10/PCD | 6248.251.25 |

Replacement Parts:
 Item# 4200.098.98 (four-sided solid carbide insert)
 Item# 7.4200.098.98 (four-sided PCD insert)
 Item# 39081-0-04070-R (M4 x 7mm, T15 Torx screw)
 Item# 39077-0-04015-2 (Torx wrench T15)



CARBIDE INSERT ROUGHING BIT

6249

Special application tool for routing holes and profiles, tenons and connecting joints in construction, timber and joinery applications, as well as specialty composite materials. Suitable for all types of wood (hardwood, softwood, plywood etc.). Also suitable for use on custom machinery for prefab housing. Spiral design delivers excellent finish and quiet running. Other lengths and diameters on request.

Recommended Maximum RPM: D=30mm 15,000; D=40mm 12,000.

| D | CEL | L4 | OAL | S | Inserts | Item# |
|------|-------|--------|-------|------|---------|-------------|
| 30mm | 119mm | 13.9mm | 195mm | 25mm | 19/TC | 6249.300.25 |
| 40mm | 160mm | 13.9mm | 235mm | 25mm | 26/PCD | 6249.400.25 |

Replacement Parts: Item# 4200.012.20 (beveled corners) 12mm x 12mm x 1.5mm



SOLID CARBIDE CHIPBREAKER

6230

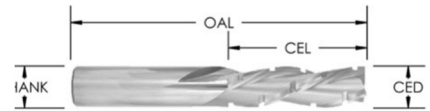
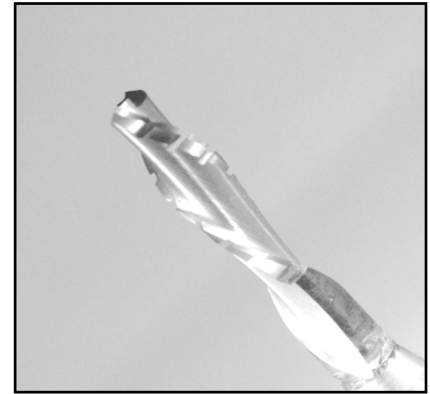
This bit is designed with offset chipbreakers for high feed rates. Chipbreakers are available in two and three flute. Not recommended for a finish cut. RH rotation. LH rotation available on request.

2 AND 3-FLUTE UP CUT

| D | CEL | OAL | Flutes | S | Item# |
|------|--------|--------|--------|------|-------------|
| 3/8" | 1-1/4" | 3" | 3 | 3/8" | 6230.375U38 |
| 1/2" | 1-1/4" | 3" | 3 | 1/2" | 6230.501U12 |
| 1/2" | 1-1/2" | 3-1/2" | 2 | 1/2" | 6230.500U13 |
| 1/2" | 1-5/8" | 3-1/2" | 2 | 1/2" | 6230.500U15 |
| 1/2" | 1-5/8" | 3-1/2" | 3 | 1/2" | 6230.501U15 |
| 1/2" | 2" | 4" | 3 | 1/2" | 6230.501U14 |
| 1/2" | 2" | 4" | 2 | 1/2" | 6230.500U16 |
| 5/8" | 2" | 4" | 2 | 5/8" | 6230.625U60 |
| 5/8" | 2-1/2" | 6" | 2 | 5/8" | 6230.625U70 |
| 3/4" | 1-5/8" | 3-1/2" | 3 | 3/4" | 6230.751U58 |
| 3/4" | 2" | 4" | 3 | 3/4" | 6230.750U60 |
| 3/4" | 3" | 6" | 3 | 3/4" | 6230.752U60 |

2 AND 3-FLUTE DOWN CUT

| D | CEL | OAL | Flutes | S | Item# |
|------|--------|--------|--------|------|-------------|
| 1/2" | 1-1/4" | 3" | 3 | 1/2" | 6230.501D12 |
| 1/2" | 1-1/2" | 3-1/2" | 2 | 1/2" | 6230.500D13 |
| 1/2" | 1-5/8" | 3-1/2" | 3 | 1/2" | 6230.501D15 |
| 1/2" | 2" | 4" | 3 | 1/2" | 6230.501D14 |
| 5/8" | 2" | 4" | 3 | 5/8" | 6230.625D60 |
| 3/4" | 2" | 4" | 2 | 3/4" | 6230.751D60 |
| 3/4" | 2-1/2" | 5" | 3 | 3/4" | 6230.750D61 |
| 3/4" | 3" | 6" | 3 | 3/4" | 6230.752D60 |



2-FLUTE COMPRESSION (WITH CHIPBREAKERS)

FOR PLYWOOD

X* = For harder plywood (Russian Birch)

| CED | CEL | OAL | Upcut | S | Item# |
|------|--------|-----|-------|------|--------------|
| 3/8" | 1" | 3" | 3/16" | 3/8" | 6229C376.16X |
| 3/8" | 1-1/4" | 3" | 3/8" | 3/8" | 6229C375.20 |
| 1/2" | 1-1/8" | 3" | 3/16" | 1/2" | 6229C500.16X |
| 1/2" | 1-1/4" | 3" | 5/16" | 1/2" | 6229C500.20 |
| 3/4" | 2" | 4" | 5/16" | 3/4" | 6229C750.20 |
| 3/4" | 2-1/2" | 5" | 7/8" | 3/4" | 6229C751.20 |

NOVITEC INSERT ROUGHING BIT

6235

This insert router bit is designed for roughing/hogging composite materials and solid wood. Not designed for finish cuts, although it does produce a very acceptable finish for many applications. Excellent results machining plywood. Tips are interchangeable as either straight, 8° up shear, or 8° down shear cutting action. The Novitec is supplied with straight carbide knives unless otherwise specified. This tool is great for high feed rates! **Maximum RPM: 24,000**

| D | L ₂ /L ₃ | S | OAL | Z/tips | Rotation | Item# |
|------|--------------------------------|------|-------|--------|----------|-------------|
| 16mm | 42mm/48mm | 25mm | 110mm | 3/9 | RH | 6235.016.42 |
| 16mm | 56mm/62mm | 25mm | 125mm | 3/12 | RH | 6235.016.56 |
| 16mm | 42mm/48mm | 14mm | 110mm | 3/9 | RH | 6235.116.42 |
| 16mm | 42mm/48mm | 14mm | 110mm | 3/9 | LH | 6235.116.43 |
| 16mm | 56mm/62mm | 14mm | 125mm | 3/12 | RH | 6235.116.56 |
| 18mm | 42mm/48mm | 25mm | 118mm | 3/9 | RH | 6235.018.42 |
| 18mm | 56mm/62mm | 25mm | 132mm | 3/12 | LH | 6235.018.57 |
| 3/4" | 56mm/62mm | 3/4" | 119mm | 3/12 | RH | 6235.019.56 |
| 20mm | 42mm/48mm | 25mm | 118mm | 3/9 | RH | 6235.020.42 |
| 24mm | 42mm/48mm | 25mm | 118mm | 3/9 | RH | 6235.024.42 |
| 24mm | 56mm/62mm | 25mm | 126mm | 3/12 | RH | 6235.024.56 |
| 24mm | 56mm/62mm | 25mm | 126mm | 3/12 | LH | 6235.024.57 |
| 24mm | 70mm/76mm | 25mm | 140mm | 3/15 | RH | 6235.024.70 |
| 24mm | 83mm/90mm | 25mm | 153mm | 3/18 | RH | 6235.024.83 |

Replacement Inserts:

For 16mm-20mm Diameter

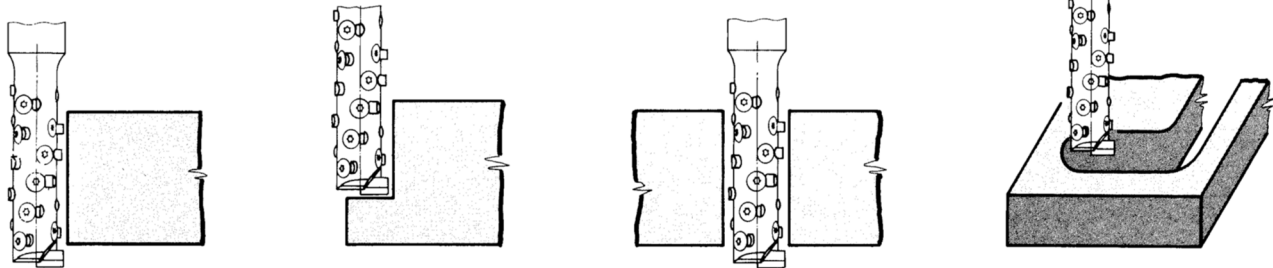
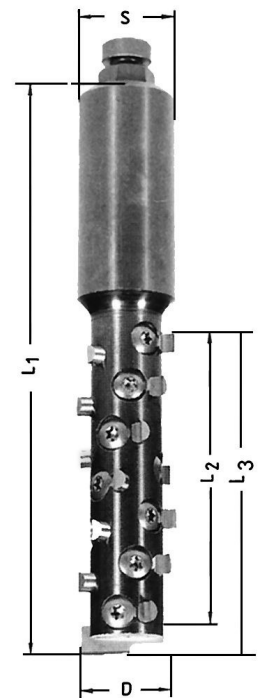
- Item# 6235.055.00 (straight)
- Item# 6235.055.01 (up shear)
- Item# 6235.055.02 (down shear)

For 24mm Diameter

- Item# 6235.070.00 (straight)
- Item# 6235.070.01 (up shear)
- Item# 6235.070.02 (down shear)

Plunge Inserts

| | RH | LH |
|-------------------|-------------|-------------|
| For 16mm Diameter | 6235.000.16 | 6235.001.16 |
| For 18mm Diameter | 6235.000.18 | 6235.001.18 |
| For 3/4" Diameter | 6235.000.19 | - |
| For 20mm Diameter | 6235.000.20 | 6235.001.20 |
| For 24mm Diameter | 6235.000.24 | 6235.001.24 |



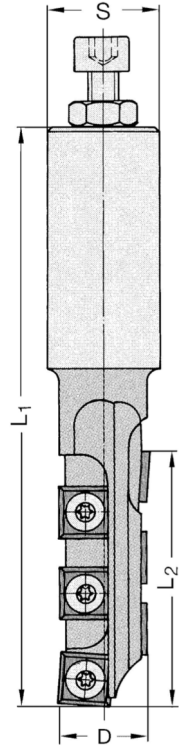
CARBIDE INSERT CHIPBREAKER BIT

6223

This carbide insert bit is designed for faster feed rates. It features top and bottom inserts positioned on opposite shear angles for clean cuts on top and bottom of panel. Ideal for rough cutting and cut-outs in solid wood and panel products. This bit features six off-set inserts. Suitable for plunge cutting. RH rotation.

| D | CEL | OAL | Flutes | S | Item# |
|------|------|-------|--------|------|-------------|
| 22mm | 60mm | 131mm | 1+1 | 3/4" | 6223.221.34 |

Replacement Parts: Item# 4200.012.00 (four-sided)
 Item# 39076-0-04000-R M4 (Torx screw)
 Item# 39077-0-04015-2 (Torx wrench T15)



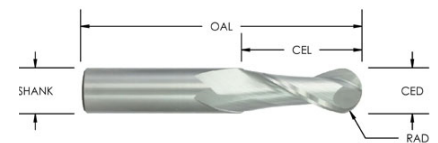
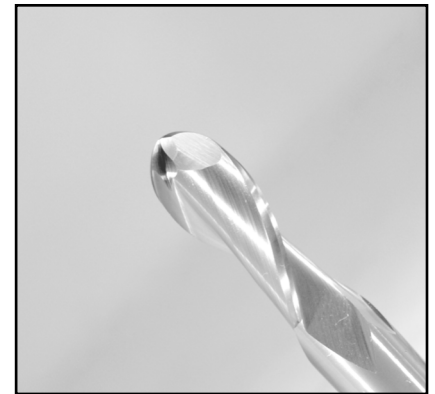
SOLID CARBIDE BALLNOSE BIT

6228B

2-flute up cut, ballnose/cove bit. Suitable for carving, fluting, and shallow concave radius cuts.

2-FLUTE

| CED | CEL | OAL | Radius | S | Item# |
|-------|--------|--------|--------|------|--------------|
| 1/8" | 1/2" | 2" | 1/16" | 1/4" | 6228R125U14B |
| 3/16" | 3/4" | 2" | 3/32" | 1/4" | 6228R476U14B |
| 1/4" | 3/4" | 2-1/2" | 1/8" | 1/4" | 6228R250U14B |
| 3/8" | 1" | 3" | 3/16" | 3/8" | 6228R375U38B |
| 1/2" | 1-1/4" | 3" | 1/4" | 1/2" | 6228R500U12B |
| 1/2" | 2" | 4" | 1/4" | 1/2" | 6228R500U14B |
| 3/4" | 2" | 4" | 3/8" | 3/4" | 6228R750U60B |



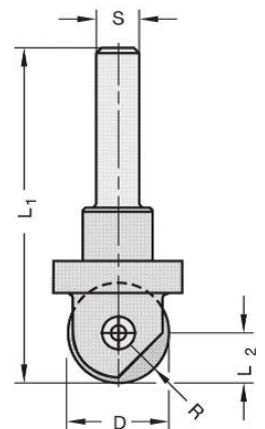
COVE/FLUTING INSERT BIT

4096

Carbide insert router bit suitable for fluting and coves. The carbide insert is reversible and yields two run cycles per insert. Ideal for use in wood and wood composites.

| D | L1 | L2 | S | Radius (R) | Item# |
|------|------|-------|-------------|------------|-------------|
| 1/2" | 57mm | 1/4" | 1/4" x 30mm | 1/4" | 4096.127.63 |
| 1/2" | 57mm | 1/4" | 1/2" x 30mm | 1/4" | 4096.127.12 |
| 16mm | 60mm | 5/16" | 1/2" x 30mm | 5/16" | 4096.160.12 |
| 19mm | 63mm | 3/8" | 1/4" x 30mm | 3/8" | 4096.190.63 |
| 19mm | 63mm | 3/8" | 1/2" x 30mm | 3/8" | 4096.190.12 |

Replacement Inserts: Item# 4096.635.00 (1/4" R)
 Item# 4096.080.00 (5/16" R)
 Item# 4096.953.00 (3/8" R)



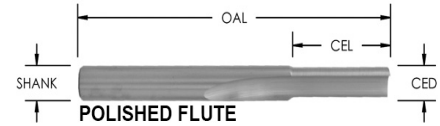
SOLID CARBIDE O-FLUTE STRAIGHT BIT

6201-6202

Single flute and 2-flute styles available. Axial straight, solid carbide polished O-flute for polycarbonate, ABS, polystyrene, PVC and other plastics when up or down cut shearing action is not required.

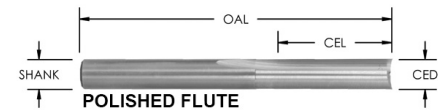
SINGLE FLUTE

| CED | CEL | S | OAL | Cut | Item# (RH) | Item# (LH) |
|-------|--------|------|--------|----------|-------------|---------------|
| 1/8" | 3/8" | 1/4" | 2-1/2" | Straight | 6201F127.14 | 6201F127.14LH |
| 1/8" | 1/2" | 1/4" | 2" | Straight | 6201F125.14 | - |
| 1/8" | 5/8" | 1/4" | 4" | Straight | 6201F126.14 | - |
| 5/32" | 1/2" | 1/4" | 2-1/2" | Straight | 6201F156.14 | 6201F156.14LH |
| 3/16" | 1/2" | 1/4" | 2-1/2" | Straight | 6201F189.14 | 6201F189.14LH |
| 3/16" | 5/8" | 1/4" | 2" | Straight | 6201F187.14 | - |
| 3/16" | 1" | 1/4" | 4" | Straight | 6201F188.14 | - |
| 7/32" | 5/8" | 1/4" | 2-1/2" | Straight | 6201F218.14 | - |
| 1/4" | 3/4" | 1/4" | 2-1/2" | Straight | 6201F250.14 | 6201F250.14LH |
| 1/4" | 1" | 1/4" | 3-1/2" | Straight | 6201F252.14 | - |
| 1/4" | 1-1/4" | 1/4" | 4" | Straight | 6201F251.14 | - |
| 3/8" | 1" | 3/8" | 3" | Straight | 6201F376.38 | - |
| 3/8" | 1-5/8" | 3/8" | 6" | Straight | 6201F375.38 | - |
| 1/2" | 1" | 1/2" | 3" | Straight | 6201F500.50 | - |
| 1/2" | 2-1/8" | 1/2" | 6" | Straight | 6201F501.50 | - |



2-FLUTE

| CED | CEL | S | OAL | Cut | Item# |
|-------|--------|------|--------|----------|-------------|
| 1/8" | 1/2" | 1/4" | 2" | Straight | 6202F125.14 |
| 1/8" | 5/8" | 1/4" | 4" | Straight | 6202F126.14 |
| 5/32" | 1/2" | 1/4" | 2-1/2" | Straight | 6202F156.14 |
| 3/16" | 3/8" | 1/4" | 2" | Straight | 6202F187.16 |
| 3/16" | 5/8" | 1/4" | 2" | Straight | 6202F187.15 |
| 3/16" | 1" | 1/4" | 4" | Straight | 6202F187.14 |
| 1/4" | 1" | 1/4" | 2-1/2" | Straight | 6202F252.14 |
| 1/4" | 1" | 1/4" | 3-1/4" | Straight | 6202F250.14 |
| 1/4" | 1-1/4" | 1/4" | 4" | Straight | 6202F251.14 |
| 3/8" | 7/8" | 3/8" | 2-1/2" | Straight | 6202F375.38 |
| 3/8" | 1" | 3/8" | 4" | Straight | 6202F376.38 |
| 1/2" | 1" | 1/2" | 3" | Straight | 6202F500.50 |
| 1/2" | 1" | 1/2" | 4" | Straight | 6202F500.51 |



SOLID CARBIDE O-FLUTE UP CUT

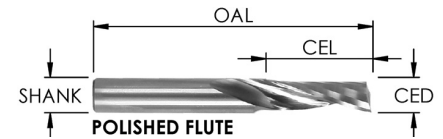
6201

Single flute, spiral up cut, solid carbide polished O-flute for soft/flexible plastics and other synthetic polymers.

SINGLE FLUTE

SOFT PLASTICS

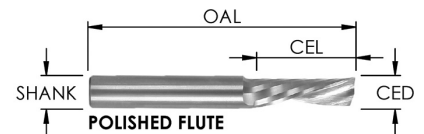
| CED | CEL | S | OAL | Item# |
|-------|--------|------|--------|-------------|
| 1/16" | 1/4" | 1/4" | 2" | 6201F062U14 |
| 1/8" | 1/4" | 1/8" | 2" | 6201F125U14 |
| 1/8" | 1/2" | 1/8" | 2" | 6201F126U14 |
| 1/8" | 1/4" | 1/4" | 2" | 6201F127U14 |
| 1/8" | 1/2" | 1/4" | 2" | 6201F128U14 |
| 1/8" | 3/4" | 1/4" | 2-1/2" | 6201F129U14 |
| 3/16" | 3/8" | 1/4" | 2" | 6201F188U14 |
| 3/16" | 5/8" | 1/4" | 2" | 6201F187U14 |
| 1/4" | 3/8" | 1/4" | 2" | 6201F250U14 |
| 1/4" | 3/4" | 1/4" | 2-1/2" | 6201F251U14 |
| 1/4" | 1" | 1/4" | 2-1/2" | 6201F253U14 |
| 1/4" | 1-1/4" | 1/4" | 3" | 6201F252U14 |
| 1/4" | 1-1/2" | 1/4" | 3" | 6201F255U14 |
| 3/8" | 5/8" | 3/8" | 2-1/2" | 6201F375U38 |
| 3/8" | 1-1/8" | 3/8" | 3" | 6201F376U38 |
| 3/8" | 1-5/8" | 3/8" | 3-1/2" | 6201F377U38 |
| 1/2" | 1-5/8" | 1/2" | 3-1/2" | 6201F500U12 |



SINGLE FLUTE

HARD PLASTICS

| CED | CEL | S | OAL | Item# |
|-------|--------|------|--------|-------------|
| 1/8" | 1/4" | 1/4" | 2" | 6201H125U14 |
| 1/8" | 1/2" | 1/4" | 2" | 6201H126U14 |
| 1/8" | 3/4" | 1/4" | 2-1/2" | 6201H127U14 |
| 3/16" | 3/8" | 1/4" | 2" | 6201H187U14 |
| 3/16" | 5/8" | 1/4" | 2" | 6201H188U14 |
| 7/32" | 3/4" | 1/4" | 2-1/2" | 6201H218U14 |
| 1/4" | 3/8" | 1/4" | 2" | 6201H250U14 |
| 1/4" | 3/4" | 1/4" | 2-1/2" | 6201H251U14 |
| 1/4" | 1-1/4" | 1/4" | 3" | 6201H252U14 |
| 1/4" | 1-1/2" | 1/4" | 3" | 6201H253U14 |
| 3/8" | 5/8" | 3/8" | 2-1/2" | 6201H375U38 |
| 3/8" | 1-1/8" | 3/8" | 3" | 6201H376U38 |
| 3/8" | 1-5/8" | 3/8" | 3-1/2" | 6201H377U38 |
| 1/2" | 1-5/8" | 1/2" | 3-1/2" | 6201H500U12 |



SOLID CARBIDE O-FLUTE DOWN CUT

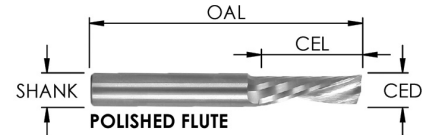
6201

Single flute, spiral down cut, solid carbide polished O-flute for soft/flexible plastics and other synthetic polymers. Recommended when cutting small parts to prevent part movement.

SINGLE FLUTE

SOFT PLASTICS

| CED | CEL | S | OAL | Item# |
|-------|--------|------|--------|-------------|
| 1/8" | 1/2" | 1/4" | 2" | 6201F126D14 |
| 3/16" | 5/8" | 1/4" | 2" | 6201F187D14 |
| 1/4" | 3/4" | 1/4" | 2-1/2" | 6201F251D14 |
| 1/4" | 1-1/4" | 1/4" | 3" | 6201F252D14 |
| 3/8" | 1-1/8" | 3/8" | 3" | 6201F376D38 |
| 1/2" | 1-5/8" | 1/2" | 3-1/2" | 6201F500D12 |



SINGLE FLUTE

HARD PLASTICS

| CED | CEL | S | OAL | Item# |
|-------|--------|------|--------|-------------|
| 1/8" | 1/2" | 1/4" | 2" | 6201H125D14 |
| 3/16" | 5/8" | 1/4" | 2" | 6201H187D14 |
| 1/4" | 3/4" | 1/4" | 2-1/2" | 6201H251D14 |
| 1/4" | 1-1/4" | 1/4" | 3" | 6201H252D14 |
| 3/8" | 1-1/8" | 3/8" | 3" | 6201H376D38 |

SOLID CARBIDE O-FLUTE LOW/HIGH HELIX UP CUT

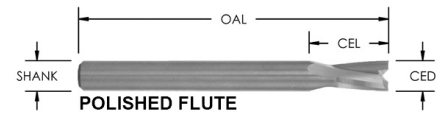
6202

2-flute, slow spiral, up cut bit suitable for a wide range of plastics (soft and hard) as well as solid surface material.

2-FLUTE

LOW HELIX

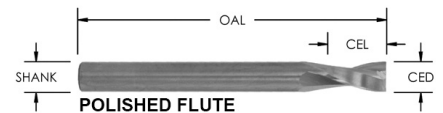
| CED | CEL | S | OAL | Item# |
|------|--------|------|--------|---------------|
| 1/4" | 3/8" | 1/4" | 2-1/2" | 6202P250U14SS |
| 1/4" | 3/4" | 1/4" | 2-1/2" | 6202P251U14SS |
| 3/8" | 1" | 3/8" | 3" | 6202P375U38SS |
| 3/8" | 1-1/8" | 1/2" | 3-1/2" | 6202P376U38SS |
| 1/2" | 1-5/8" | 1/2" | 3-1/2" | 6202P500U12SS |
| 1/2" | 2-1/8" | 1/2" | 4-1/2" | 6202P501U12SS |



2-FLUTE

HIGH HELIX

| CED | CEL | S | OAL | Item# |
|------|--------|------|--------|---------------|
| 1/4" | 3/8" | 1/4" | 2-1/2" | 6202P250U14FS |
| 1/4" | 1-1/4" | 1/4" | 3" | 6202P251U14FS |
| 3/8" | 1" | 3/8" | 3" | 6202P375U38FS |
| 3/8" | 1-1/2" | 3/8" | 4" | 6202P376U38FS |
| 1/2" | 1-1/4" | 1/2" | 4" | 6202P500U12FS |
| 1/2" | 2-1/8" | 1/2" | 4" | 6202P501U12FS |



SOLID CARBIDE O-FLUTE ROUNDING EDGE

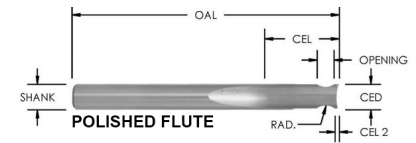
6201-6202

Available in single and 2-flute style, axial straight or up cut, solid carbide bits with polished flute for hard and soft plastics as well as solid surface materials.

SINGLE FLUTE

STRAIGHT

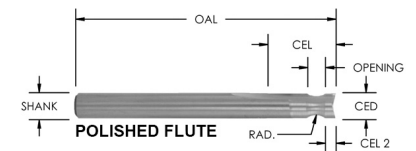
| CED | CEL | S | OAL | Radius | Opening | CEL2 | Material | Item# |
|------|------|------|--------|--------|---------|-------|----------|-------------|
| 1/4" | 3/8" | 1/4" | 2-1/2" | 1/8" | 5/32" | 1/8" | 0.195" | 6201R250.14 |
| 1/4" | 3/8" | 1/4" | 2-1/2" | 3/16" | 7/32" | 3/16" | 0.180" | 6201R251.14 |
| 1/4" | 3/8" | 1/4" | 2-1/2" | 1/4" | 9/32" | 1/4" | 0.163" | 6201R252.14 |



2-FLUTE

STRAIGHT

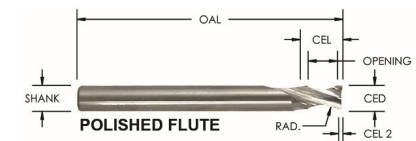
| CED | CEL | S | OAL | Radius | Opening | CEL2 | Material | Item# |
|------|------|------|--------|--------|---------|-------|----------|-------------|
| 1/4" | 3/8" | 1/4" | 2-1/2" | 1/8" | 5/32" | 1/8" | 0.195" | 6202R250.14 |
| 1/4" | 3/8" | 1/4" | 2-1/2" | 3/16" | 7/32" | 3/16" | 0.180" | 6202R251.14 |
| 1/4" | 3/8" | 1/4" | 2-1/2" | 1/4" | 9/32" | 1/4" | 0.163" | 6202R252.14 |



SINGLE FLUTE

UP CUT

| CED | CEL | S | OAL | Radius | Opening | CEL2 | Material | Item# |
|------|------|------|--------|--------|---------|-------|----------|-------------|
| 1/4" | 3/8" | 1/4" | 2-1/2" | 1/8" | 5/32" | 1/8" | 0.195" | 6201R250S14 |
| 1/4" | 3/8" | 1/4" | 2-1/2" | 3/16" | 7/32" | 3/16" | 0.180" | 6201R251S14 |
| 1/4" | 3/8" | 1/4" | 2-1/2" | 1/4" | 9/32" | 1/4" | 0.163" | 6201R252S14 |



ROUTER BIT FOR ACRYLIC

93103-96123

German-engineered and produced, these single and multi-flute solid carbide bits feature special cutting geometries that produce highest quality surface finish. With a polished flute for excellent chip removal, these bits provide an exceptionally good end result.

Suitable for machining (polishing, grooving, sizing) of thermoplastics, such as PMMA (acrylic glass), PC (polycarbonate), PE (polyethylene), PP (polypropylene) PS (polystyrol), ABS, and PVC.

Achieve an almost glasslike finish by pre-routing in conventional cut mode and then making a final pass (with minimal material removal) in climb cut mode.

SINGLE FLUTE

| CED | CEL | OAL | S | Item# |
|------|------|------|------|-----------|
| 2mm | 5mm | 50mm | 6mm | 93103-020 |
| 4mm | 15mm | 50mm | 6mm | 93103-040 |
| 6mm | 20mm | 60mm | 6mm | 93103-060 |
| 8mm | 25mm | 70mm | 8mm | 93103-080 |
| 10mm | 30mm | 70mm | 10mm | 93103-100 |

Recommended machining parameters:

Precut (roughing): conventional cut: 18,000-24,000 rpm, 2m-6m/min feed rate
 Finish cut: climb cut: 18,000-24,000 rpm, 0.1m-0.4m/min feed rate
 (.004"-.012" material removal)

3-FLUTE

| CED | CEL | OAL | S | Item# |
|-----|------|------|-----|-----------|
| 6mm | 20mm | 50mm | 6mm | 93303-060 |

Recommended machining parameters:

Precut (roughing): conventional cut: 18,000-24,000 rpm, 6m-10m/min feed rate (Z3)
 Finish cut: climb cut: 18,000-24,000 rpm, 0.3m-0.8m/min feed rate
 (.004"-.012" material removal)



BALLNOSE BIT FOR ACRYLIC

96113

| CED | CEL | OAL | R | S | Item# |
|------|------|------|---|------|-----------|
| 2mm | 5mm | 50mm | 1 | 6mm | 96113-020 |
| 4mm | 15mm | 50mm | 2 | 6mm | 96113-040 |
| 6mm | 20mm | 60mm | 3 | 6mm | 96113-060 |
| 8mm | 25mm | 70mm | 4 | 8mm | 96113-080 |
| 10mm | 30mm | 70mm | 5 | 10mm | 96113-100 |

Recommended machining parameters:

Precut (roughing): conventional cut: 16,000-24,000 rpm, 2m-6m/min feed rate
 Finish cut: climb cut: 16,000-24,000 rpm, 0.3m-0.6m/min feed rate
 (.005"-.010" material removal)

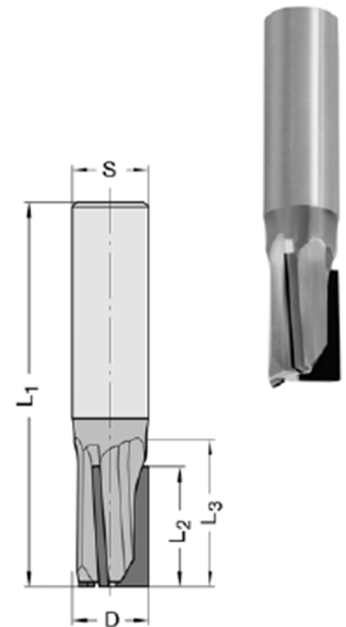


TRIO PCD (DIAMOND) FINISHING CUTTER

6815

Tool body made of solid carbide with PCD (Diamond) periphery tips and plunge tip. Alternative shear cut (2 negative; 1 positive) and can be sharpened 1-2x. Can be used for finishing, grooving, sizing, severing (nesting), and rebating of particularly abrasive workpiece materials. Continuous cutting edges for line-free cut.

| D | L2 | L3 | L1 | S | Item# |
|------|------|------|------|-------------|-------------|
| 10mm | 25mm | 35mm | 70mm | 10mm x 35mm | 6815.100.30 |
| 12mm | 10mm | 19mm | 70mm | 12mm x 40mm | 6815.120.30 |
| 12mm | 15mm | 24mm | 70mm | 12mm x 40mm | 6815.121.30 |
| 12mm | 20mm | 29mm | 75mm | 12mm x 40mm | 6815.122.30 |
| 12mm | 25mm | 34mm | 80mm | 12mm x 40mm | 6815.123.30 |
| 14mm | 15mm | 23mm | 70mm | 14mm x 40mm | 6815.140.30 |
| 14mm | 20mm | 28mm | 75mm | 14mm x 40mm | 6815.141.30 |
| 14mm | 25mm | 33mm | 80mm | 14mm x 40mm | 6815.142.30 |
| 16mm | 10mm | 25mm | 80mm | 16mm x 50mm | 6815.160.30 |
| 16mm | 15mm | 30mm | 80mm | 16mm x 45mm | 6815.161.30 |
| 16mm | 20mm | 30mm | 80mm | 16mm x 45mm | 6815.162.30 |
| 16mm | 25mm | 30mm | 80mm | 16mm x 45mm | 6815.163.30 |
| 16mm | 30mm | 35mm | 85mm | 16mm x 45mm | 6815.164.30 |
| 16mm | 35mm | 40mm | 90mm | 16mm x 45mm | 6815.165.30 |
| 20mm | 10mm | 15mm | 85mm | 20mm x 60mm | 6815.200.30 |
| 20mm | 15mm | 20mm | 85mm | 20mm x 60mm | 6815.201.30 |
| 20mm | 20mm | 25mm | 85mm | 20mm x 55mm | 6815.202.30 |
| 20mm | 25mm | 30mm | 90mm | 20mm x 55mm | 6815.203.30 |
| 20mm | 30mm | 35mm | 95mm | 20mm x 55mm | 6815.204.30 |

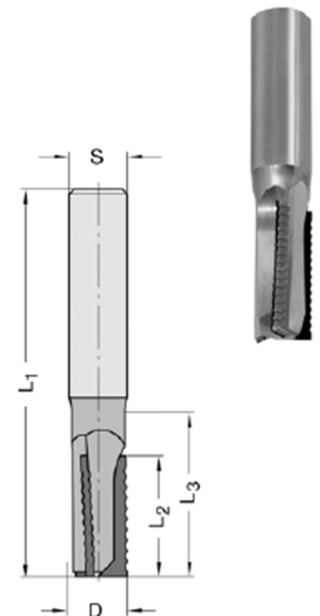


TRIO PCD (DIAMOND) ROUGHING CUTTER

6915

Roughing tool made of solid carbide with PCD (Diamond) periphery tips and plunge tip. Alternative shear cut (2 negative; 1 positive) and be sharpened 1-2x. Can be used for roughing, grooving, sizing, severing (nesting) and rebating of particularly abrasive workpiece materials. Applicable for axial- and ramp plunge cutting. Excellent tool that provides increased chip volume and reduced cutting force compared to other style roughing bits.

| D | L2 | L3 | L1 | S | Item# |
|------|------|------|------|-------------|-------------|
| 12mm | 10mm | 19mm | 70mm | 12mm x 45mm | 6915.120.30 |
| 12mm | 15mm | 24mm | 70mm | 12mm x 40mm | 6915.121.30 |
| 12mm | 20mm | 29mm | 75mm | 12mm x 40mm | 6915.122.30 |
| 12mm | 25mm | 34mm | 80mm | 12mm x 40mm | 6915.123.30 |
| 14mm | 15mm | 23mm | 70mm | 14mm x 40mm | 6915.140.30 |
| 14mm | 20mm | 28mm | 75mm | 14mm x 40mm | 6915.141.30 |
| 14mm | 25mm | 33mm | 80mm | 14mm x 40mm | 6915.142.30 |
| 16mm | 10mm | 25mm | 80mm | 16mm x 50mm | 6915.160.30 |
| 16mm | 15mm | 30mm | 80mm | 16mm x 45mm | 6915.161.30 |
| 16mm | 20mm | 30mm | 80mm | 16mm x 45mm | 6915.162.30 |
| 16mm | 25mm | 30mm | 80mm | 16mm x 45mm | 6915.163.30 |
| 16mm | 30mm | 35mm | 85mm | 16mm x 45mm | 6915.164.30 |
| 20mm | 10mm | 15mm | 85mm | 20mm x 60mm | 6915.200.30 |
| 20mm | 15mm | 20mm | 85mm | 20mm x 60mm | 6915.201.30 |
| 20mm | 20mm | 25mm | 85mm | 20mm x 55mm | 6915.202.30 |
| 20mm | 25mm | 30mm | 90mm | 20mm x 55mm | 6915.203.30 |
| 20mm | 30mm | 35mm | 95mm | 20mm x 55mm | 6915.204.30 |



PCD (DIAMOND) ROUTER BIT FOR THERMOPLASTICS

6815

Exceptional performance on a wide array of materials, ranging from solid wood, particleboard, MDF, solid surface material, thermoplastics/phenolics to fiber reinforced (carbon and glass fiber) composites. Quiet running and great chip removal properties. Features a solid carbide body and a diamond plunge point. Can be sharpened.

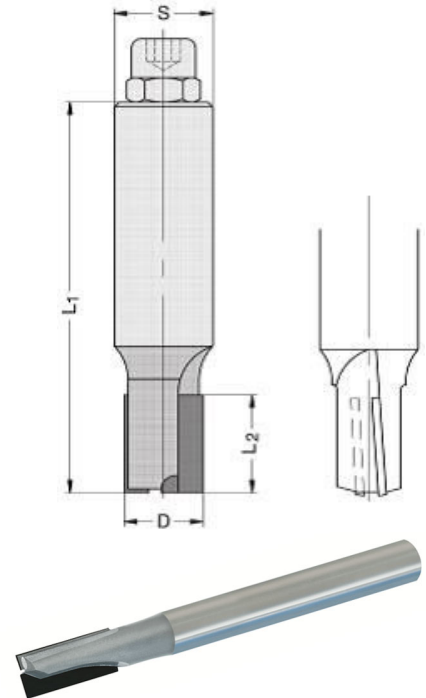
Cutting geometry designed for abrasive and difficult-to-machine materials, for groove, rebate, jointing and sizing of MDF, HDF, HPL, CPL, tresp. corian, duroplastics, thermoplastics, and fiber-reinforced composites. The PCD tips are positioned on opposite shear angles to provide an excellent finish top and bottom. Suitable for both axial and ramp plunging.

2-FLUTE

| D | L2 | S | Flutes | OAL | Item# |
|------|------|------|--------|------|-------------|
| 3/8" | 23mm | 10mm | 2 | 70mm | 6815.953.00 |
| 1/2" | 22mm | 1/2" | 2 | 70mm | 6815.127.00 |
| 1/2" | 25mm | 1/2" | 2 | 70mm | 6815.127.10 |
| 8mm | 15mm | 8mm | 2 | 65mm | 6815.080.00 |
| 10mm | 15mm | 10mm | 2 | 75mm | 6815.100.00 |
| 12mm | 20mm | 12mm | 2 | 75mm | 6815.120.00 |
| 16mm | 20mm | 20mm | 2 | 80mm | 6815.160.00 |
| 16mm | 25mm | 16mm | 2 | 85mm | 6815.160.10 |

| Material | RPM | Feed (meters) | Feed (inches) |
|--------------------------|---------------|---------------|---------------|
| Thermoplastics/Phenolics | 15,000-18,000 | 1m-5m/min | 40-195 |
| Solid Surface | 15,000-18,000 | 12m-14m/min | 400-550 |

The feed rate guidelines above are for peripheral cuts. For parting cuts, the feed speed should be reduced! (25-30%)



INSERT ROUTER BIT FOR THERMOPLASTICS

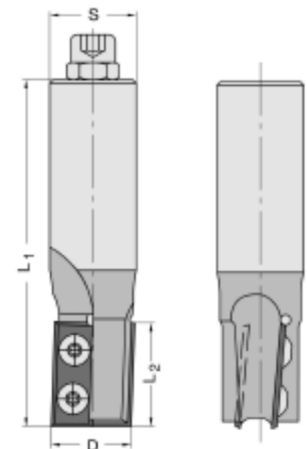
6233

For grooving, jointing, sizing and rebating acrylic glass (PMMA), thermoplastics, polyethylene (PE), polycarbonate (PC), polypropylene (PP). Tool body features two, special carbide grade insert knives that are positioned on opposing shear angles to provide an excellent finish.

2-FLUTE

| D | L2 | S | Flutes | L1 | Item# |
|------|------|------|--------|-------|-------------|
| 25mm | 30mm | 25mm | 2 | 100mm | 6233.250.00 |

Replacement Parts: Item# 72014-6-03008-0 (four-sided, solid carbide insert)

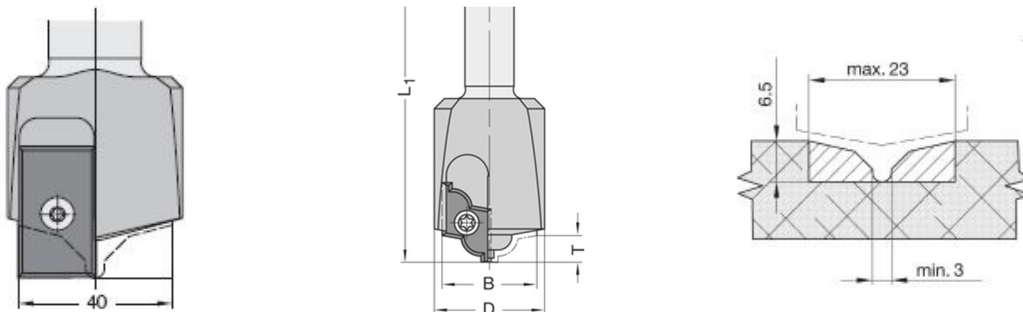


CUSTOM PROFILES FROM TOOL BLANKS

The following fourteen (14) tool body blanks can collectively accommodate a large percentage of custom profile tooling requests. By submitting either a wood sample or dimensioned drawing, we provide a production drawing for approval in forty-eight hours and can have a tool completed in two weeks!

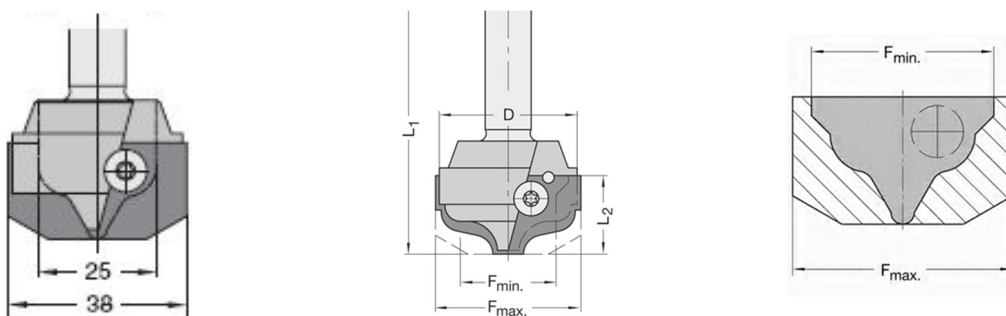


Tool Body Blank Profile Example 22451



| D | B | L1 | S | Item# |
|------|------|------|------|-------|
| 27mm | 23mm | 69mm | 12mm | 22451 |

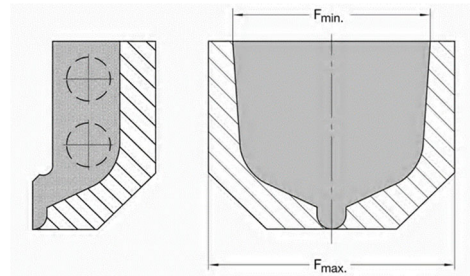
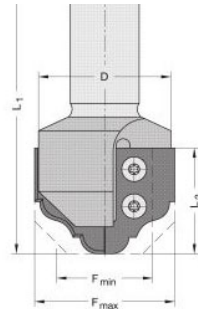
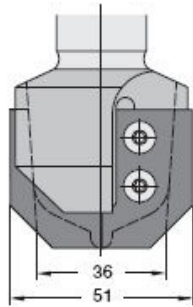
Tool Body Blank Profile Example 22543



| Fmax | D | L2 | Fmin | L1 | S | Item# |
|------|------|--------|--------|------|------|-------|
| 38mm | 27mm | 20.5mm | 31.5mm | 70mm | 1/2" | 22453 |

Tool Body Blank Profile Example

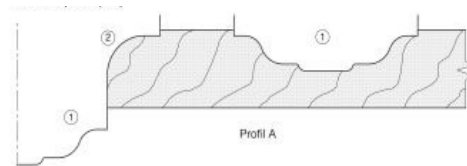
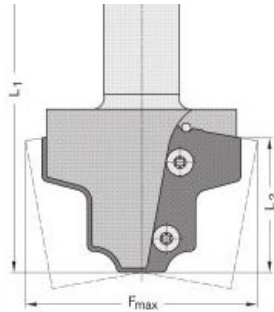
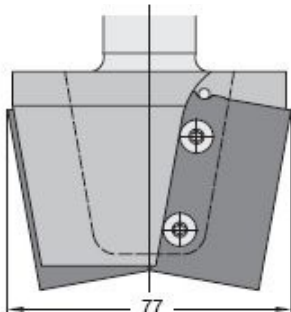
22545



| Fmax | D | L2 | Fmin | L1 | S | Item# |
|------|------|--------|------|-------|--------------|-------|
| 51mm | 48mm | 38.5mm | 41mm | 105mm | 3/4" or 25mm | 22545 |

Tool Body Blank Profile Example

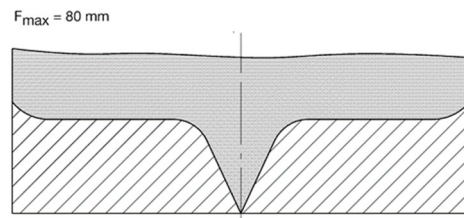
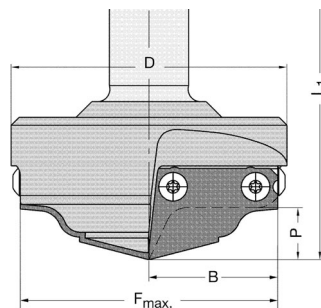
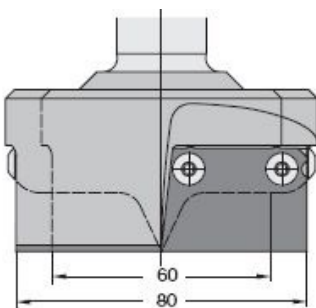
22546



| Fmax | D | L2 | L1 | S | Item# |
|------|------|------|-------|--------------|-------|
| 77mm | 74mm | 43mm | 115mm | 3/4" or 25mm | 22546 |

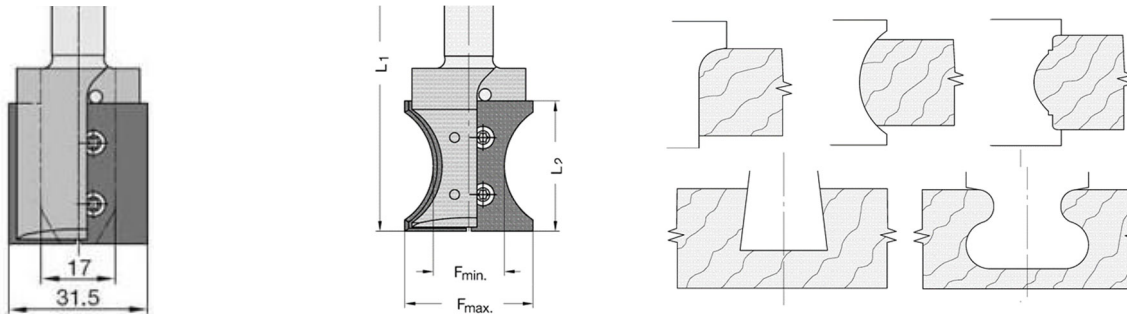
Tool Body Blank Profile Example

22547



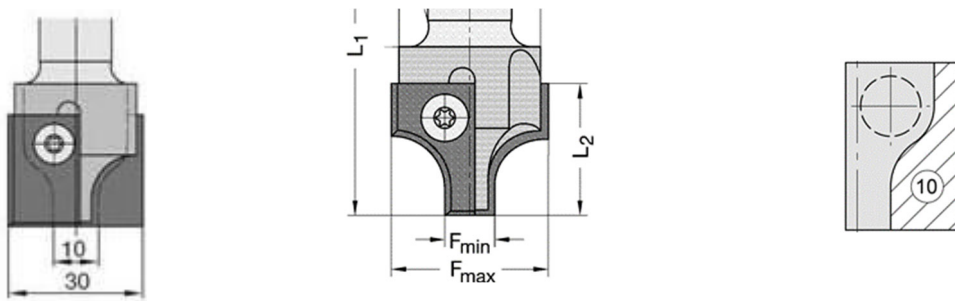
| Fmax | D | B | P | L1 | S | Item# |
|------|------|------|------|-------|--------------|---------|
| 60mm | 70mm | 30mm | 16mm | 100mm | 3/4" or 25mm | 22547-1 |
| 80mm | 90mm | 40mm | 16mm | 105mm | 3/4" or 25mm | 22547-2 |

Tool Body Blank Profile Example 22529



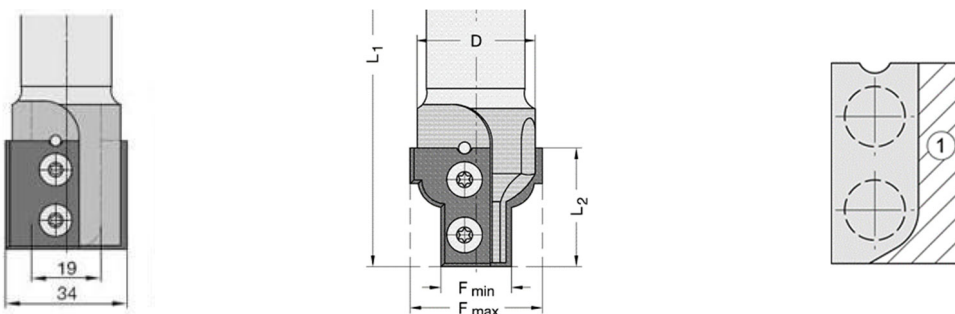
| Fmax | L2 | Fmin | L1 | S | Item# |
|--------|------|------|------|--------------|-------|
| 31.5mm | 32mm | 17mm | 80mm | 1/2" or 12mm | 22529 |

Tool Body Blank Profile Example 22534



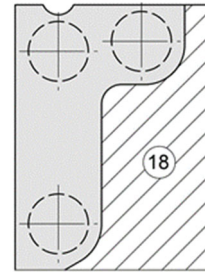
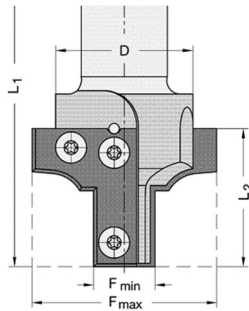
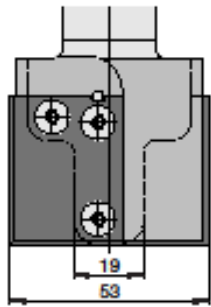
| Fmax | D | L2 | L1 | S | Item# |
|------|------|------|------|--------------|-------|
| 30mm | 28mm | 25mm | 86mm | 3/4" or 25mm | 22534 |

Tool Body Blank Profile Example 22532-1



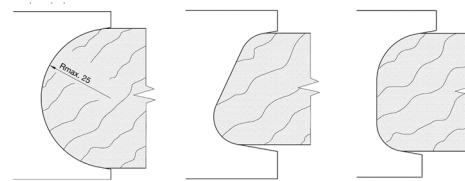
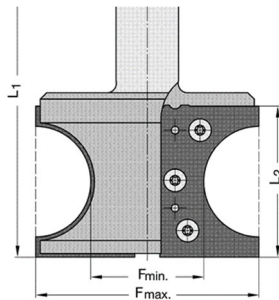
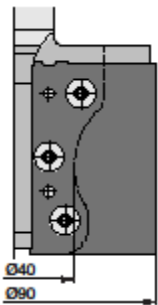
| Fmax | D | L2 | L1 | S | Item# |
|------|------|------|------|--------------|---------|
| 34mm | 31mm | 30mm | 96mm | 3/4" or 25mm | 22532-1 |

Tool Body Blank Profile Example 22532-2



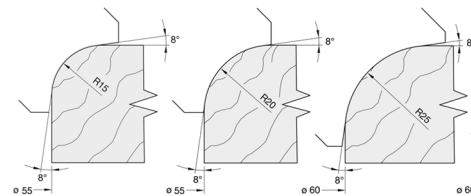
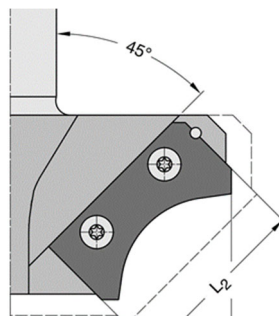
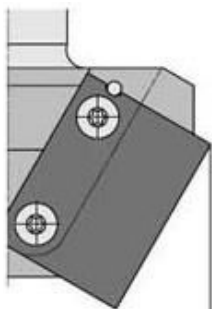
| Fmax | D | L2 | L1 | S | Item# |
|------|------|------|------|--------------|---------|
| 53mm | 50mm | 40mm | 80mm | 1/2" or 12mm | 22532-2 |

Tool Body Blank Profile Example 22530-90



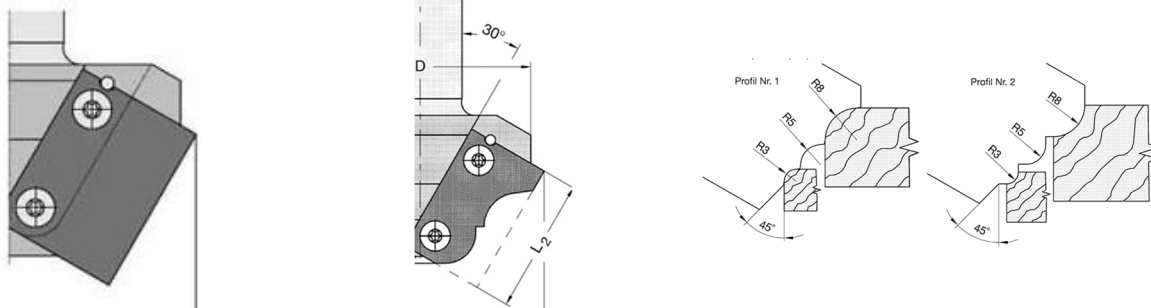
| Fmax | Fmin | L2 | L1 | S | Item# |
|------|------|------|-------|--------------|----------|
| 90mm | 40mm | 60mm | 125mm | 3/4" or 25mm | 22530-90 |

Tool Body Blank Profile Example 22538-45



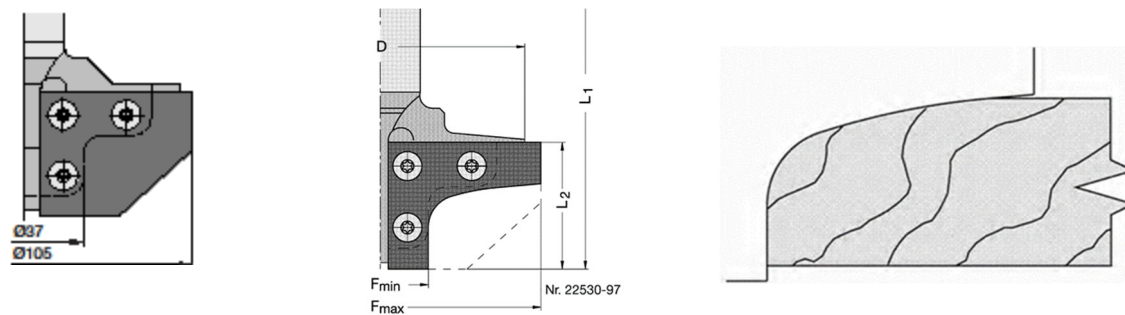
| Fmax | D | L2 | L1 | S | Item# |
|------|------|------|------|--------------|----------|
| 34mm | 31mm | 30mm | 96mm | 3/4" or 25mm | 22538-45 |

Tool Body Blank Profile Example 22538-30



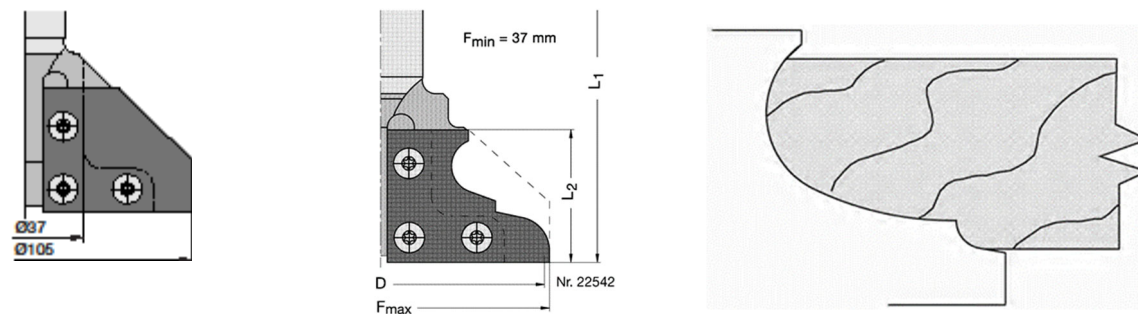
| Fmax | L2 | L1 | S | Item# |
|---------|------|-------|--------------|----------|
| 82/87mm | 40mm | 104mm | 3/4" or 25mm | 22538-30 |

Tool Body Blank Profile Example 22530-97



| Fmax | D | F min | L2 | L1 | S | Item# |
|-------|-------|-------|------|-------|--------------|----------|
| 105mm | 102mm | 37mm | 36mm | 104mm | 3/4" or 25mm | 22530-97 |

Tool Body Blank Profile Example 22542



| Fmax | D | F min | L2 | L1 | S | Item# |
|-------|-------|-------|------|-------|--------------|-------|
| 105mm | 102mm | 37mm | 36mm | 104mm | 3/4" or 25mm | 22542 |

CUSTOM TOOLING—QUICK AND EASY

Custom tooling is an easy process when partnering with GDP Tooling. From concept to design, production and delivery, the process takes no longer than four weeks. With a sample profile, a CAD file, or a dimensioned sketch, we design precision, profile tools that deliver safety, accuracy, and exceptional performance. Our customer's complete satisfaction is our goal, and we won't rest until it's perfect! Below are some examples of the end result, from drawing to tooling completion.



PCD (DIAMOND) CUSTOM PROFILE ROUTER TOOLING

Profiled diamond tools are made to order per exact customer needs and specifications. All tools are designed with consideration of preferred machining parameters in mind. The process is simple. With either a wood sample, a dimensioned sketch, or a dxf file, we prepare a detailed tool design drawing for approval. Once any revisions are noted and final drawing is approved, the lead time for the new tool to be shipped is generally four weeks.

We highly recommend all diamond tools are ordered with a heat shrink tool holder, which yields up to 30% longer tool life and better surface finish.



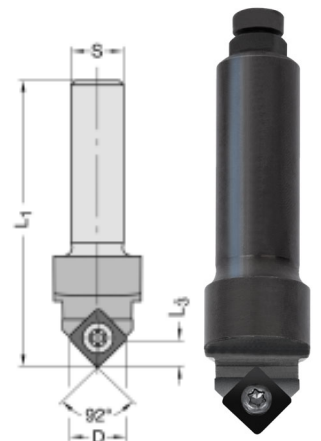
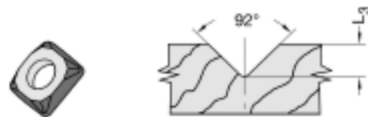
PCD (DIAMOND) INSERT GROOVING BIT

4389

Diamond insert decorative grooving, lettering, beveling and edge chamfering bit. Extremely economical when machining abrasive materials. This tool is designed with a shear effect, pulling inward and down for excellent finish.

| D | L3 | S | OAL | Item# |
|------|-----|------|------|-------------|
| 12.9 | 5.6 | 12mm | 65mm | 4389.176.00 |

Replacement Inserts: Item# 4389.098.00



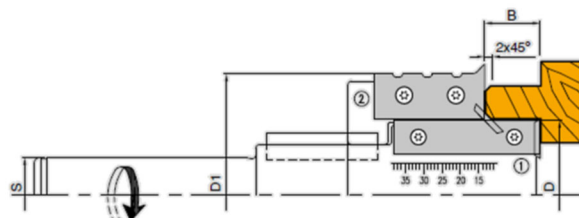
TENON INSERT BIT

4526

Insert router bit for producing tenons in solid wood. For furniture production with adjustable tenon of 15-40mm. Ideal for 5-axis machines.

| D | D1 | B | S | Z | V | C | Item# |
|------|------|-----------|------|-----|---|-----|-------------|
| 40mm | 65mm | 15mm-40mm | 20mm | 3+3 | 3 | 3mm | 4526.400.20 |

Replacement Inserts: Item# #4200.105.15
Item #6419.040.09 No. 1
Item #4785.527.01 No. 2

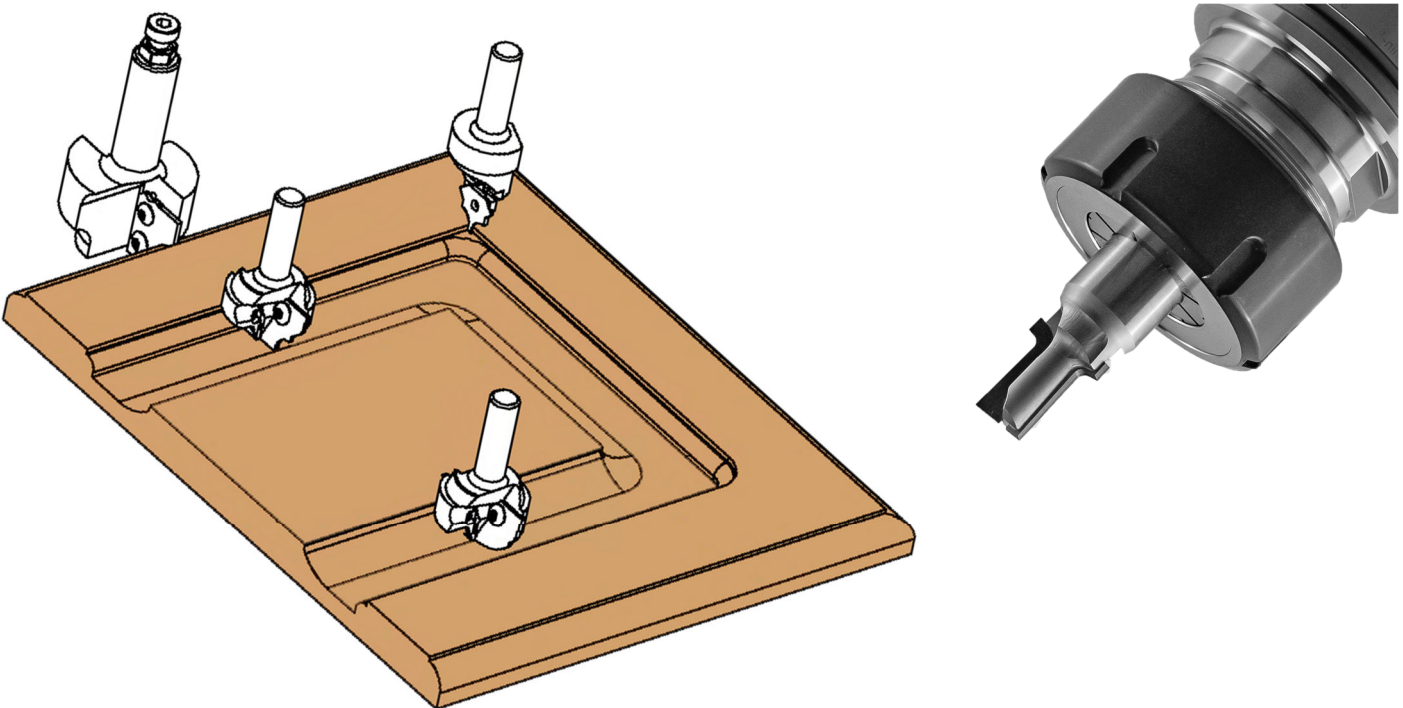


MDF CABINET DOOR TOOLING

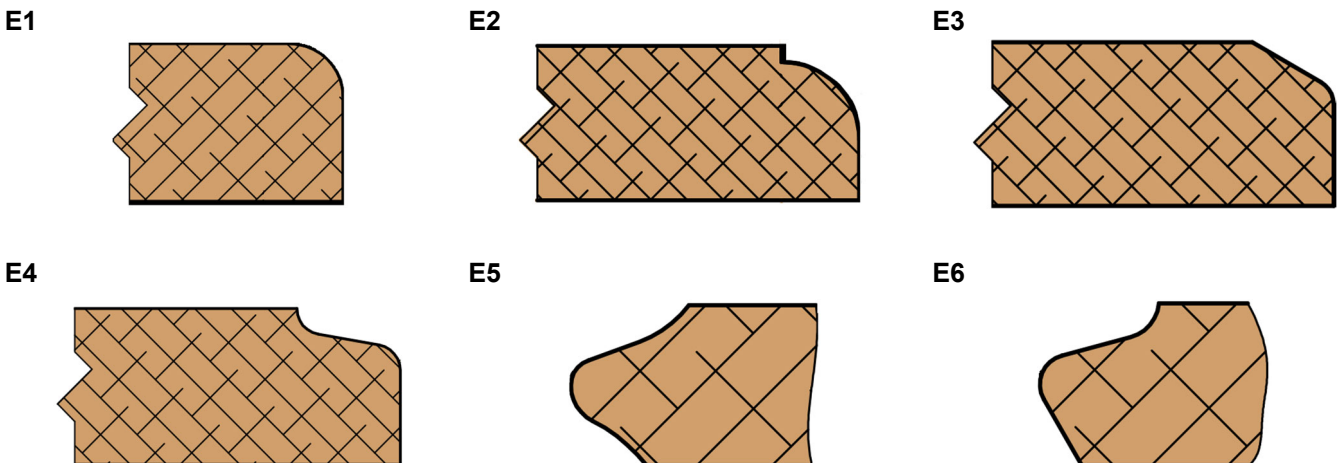
The following MDF cabinet door tooling program includes a selection of standard carbide insert and PCD (diamond) tools designed to produce high-quality cabinet doors, maximize tool life, and reduce (if not completely eliminate) sanding!

OUTSIDE EDGE PROFILES FOR MDF DOORS

PCD edge profile tools for outside edge profiling of MDF cabinet doors. Recommended to pair with HSK heat shrink tool holder (sold separately) to maximize finish and tool life. Below are example profiles. PCD Profile Tools are manufactured to customer's exact needs.



EDGE PROFILE EXAMPLES



INSIDE EDGE PROFILES FOR MDF CABINETS

Four (4) standard profiles available for inside edge profiling for MDF cabinet design. Carbide insert and PCD tipped (diamond) options. Recommended for use on HSK heat shrink tool holder to maximize finish and tool life. Custom profiles available on request.

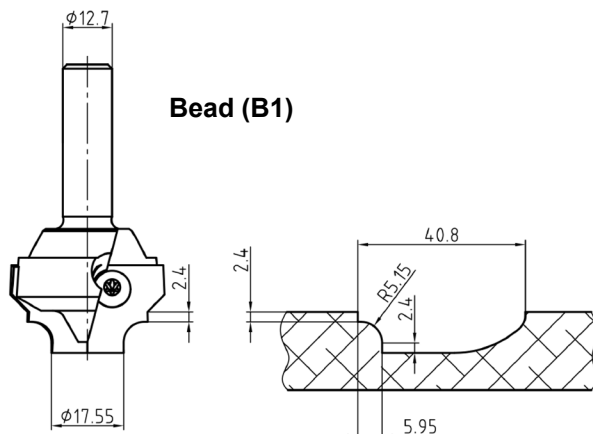
CARBIDE INSERT OPTIONS

| Profile Name | S | Item# |
|--------------|------|-------------|
| B1 | 12mm | 6979.P28315 |
| B2 | 12mm | 4323.024.00 |
| B3 | 1/2" | 6979.P19715 |
| B4 | 1/2" | 6979.P70814 |

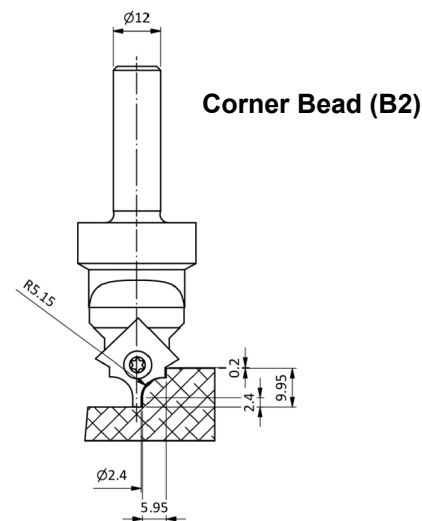
Replacement Inserts: Item# 4207.P28315 (B1)
 Item# 4207.P28415 (B2)
 Item# 4207.P19715 (B3)
 Item# 4207.P70814 (B4)

DIAMOND-TIPPED OPTIONS

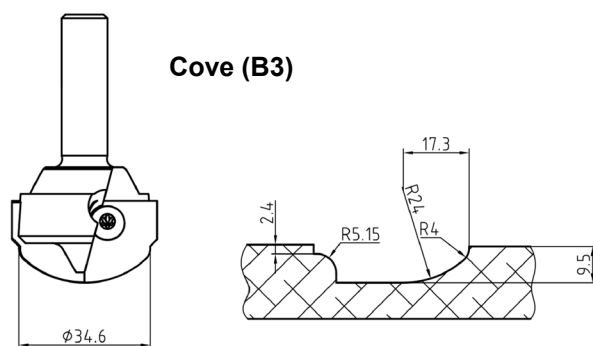
| Profile Name | S | Item# |
|--------------|------|------------|
| B1 | 12mm | 7.251232.A |
| B2 | - | - |
| B3 | 1/2" | 7.251232.B |
| B4 | 1/2" | 7.251626.B |



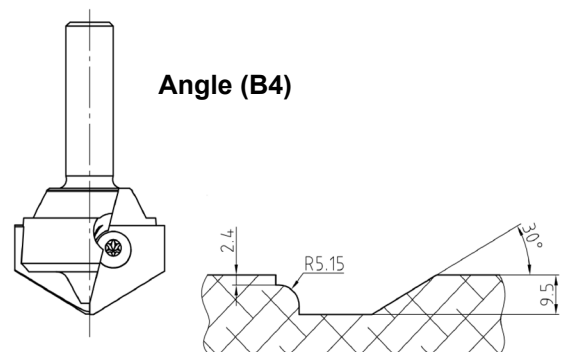
Bead (B1)



Corner Bead (B2)



Cove (B3)



Angle (B4)

FOURCUT SURFACING FINISH BIT

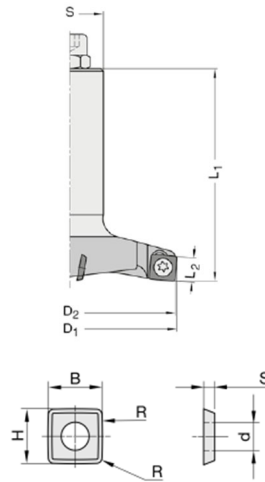
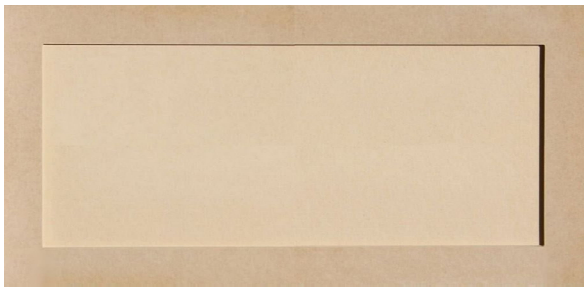
6247

Best solution for surface cleanout on MDF shaker-style cabinet doors and other surface planing applications. Provides an excellent finish, reduces machining time and is extremely economical due to four-sided inserts edge. Replacement inserts are available either in solid carbide, or polycrystalline diamond.

Recommended RPM: 10,000. Recommended feed rate: 4m/min.

| D | Cut Length | OAL | S | Rotation | Item# |
|-------|------------|------|------|----------|-------------|
| 40mm | 9.2mm | 90mm | 3/4" | RH | 6247.400.34 |
| 122mm | 9.2mm | 90mm | 25mm | RH | 6247.122.25 |

Replacement Inserts: Item# 4200.098.98 (four-sided, solid carbide)
Item# 7.4200.098.98 (four-sided, PCD-tipped insert)



SPOILBOARD/FLY CUTTER

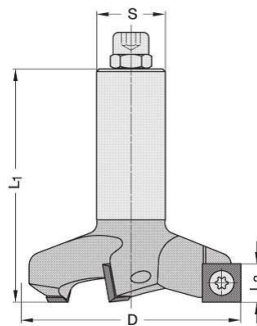
6246

Three-wing insert router bit for planing and CNC spoilboard surfacing.

| D | Z | L2 | S | Item# |
|-------|---|------|------|--------------|
| 45mm | 3 | 12mm | 1/2" | 6246.450.12 |
| 80mm | 3 | 12mm | 3/4" | 6246.800.34 |
| 100mm | 3 | 12mm | 25mm | 6246.100.25* |

*100mm diameter is supplied on an HSK 63F Heat Shrink tool holder

Replacement Inserts: Item# 4200.012.00



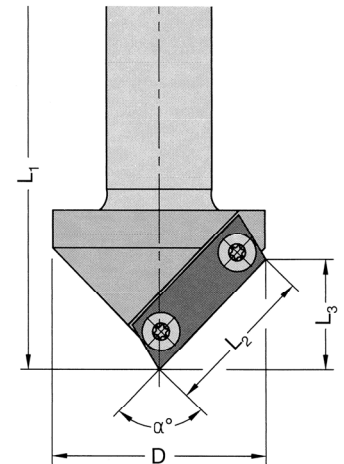
V-GROOVE MITER FOLD INSERT BIT

4320

Insert miter-fold bit for v-grooving, beveling and folding. A true 90° is used for solid surface and phenolic material; a 91° for wood and wood composites which allows for natural expansion of the wood and glue space.

| Degree | D | S | L1 | L2 | L3 | Item# |
|--------|--------|------|-------|--------|------|--------------|
| 45° | 43mm | 3/4" | 115mm | 36.4mm | 25mm | 4320.043.34 |
| 60° | 41.5mm | 3/4" | 118mm | 41.5mm | 35mm | 4320.415.34 |
| 90° | 50mm | 3/4" | 93mm | 36.4mm | 25mm | 4320.050.34S |
| 91° | 50mm | 3/4" | 93mm | 36.4mm | 25mm | 4320.050.34 |
| 91° | 71mm | 20mm | 105mm | 50mm | 35mm | 4320.071.20 |

Replacement Inserts:
 Item# 4320.040.00 (90°/91° for wood, plywood, solid surface)
 Item# 4320.041.00 (90°/91° for MDF, particleboard)
 Item# 4320.495.00 (91° x 71mm)
 Item# 4320.050.00 (60°)
 Item# 4320.060.00 (45°)



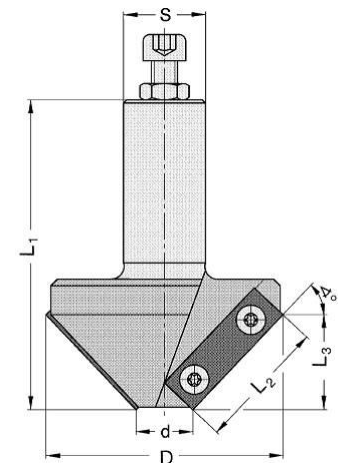
45 DEGREE BEVEL INSERT ROUTER BIT

4322

Insert router bit to produce 45° angled cuts. **Maximum RPM 18,000.**

| Degree | D | S | L1 | L2 | L3 | Item# |
|--------|------|------|------|------|------|-------------|
| 45 | 74mm | 3/4" | 95mm | 40mm | 28mm | 4322.074.34 |
| 45 | 74mm | 20mm | 95mm | 40mm | 28mm | 4322.074.20 |
| 45 | 74mm | 25mm | 95mm | 40mm | 28mm | 4322.074.25 |

Replacement Inserts: Item# 4200.040.00



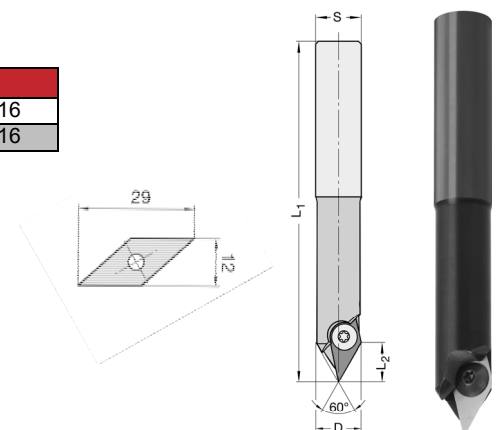
60 DEGREE V-GROOVE INSERT BIT

4321

Insert v-grooving bit with two-sided insert, excellent for corner cleanup in door production and is also suitable for decorative grooving and lettering applications.

| Degree | D | S | L1 | L2 | Rot. | Item# |
|--------|------|------|-------|--------|------|-------------|
| 60° | 16mm | 16mm | 120mm | 13.7mm | RH | 4321.060.16 |
| 60° | 16mm | 16mm | 120mm | 13.7mm | LH | 4321.061.16 |

Replacement Inserts: Item# 4321.029.00 (60°, two-sided)



CORRUGATED KNIFE HOLDER

4524

This corrugated head tool holder features a steel body design and offers a great option for short production runs and proto-type needs. It comes on an HSK heat shrink tool holder (sold separately). Maximum knife length is 80mm. RH rotation with LH available on request. For safety reasons, maximum profile depth should not exceed 16mm and maximum knife height should not exceed 40mm.

| CED | CEL | OAL | Knife Thickness | S | Item# |
|-------|------|-------|-----------------|------|-------------|
| 100mm | 40mm | 110mm | 1/4" | 25mm | 4524.040.63 |
| 100mm | 40mm | 110mm | 5/16" | 25mm | 4524.040.79 |
| 100mm | 60mm | 130mm | 1/4" | 25mm | 4524.060.63 |
| 100mm | 60mm | 130mm | 5/16" | 25mm | 4524.060.79 |
| 100mm | 80mm | 150mm | 1/4" | 25mm | 4524.080.63 |



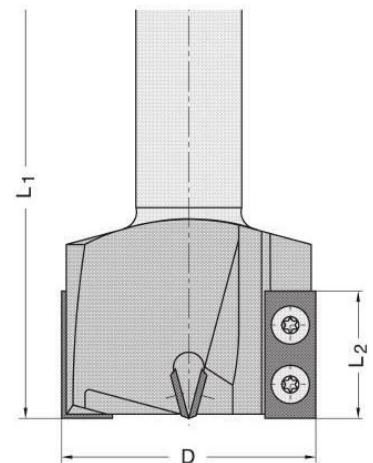
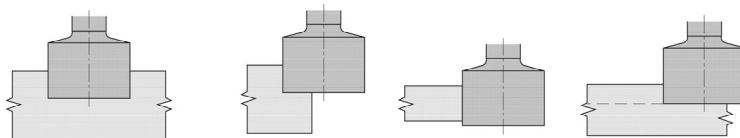
SURFACING/REBATE/JOINTING BIT

6245

Multi-use router bit for boring, grooving, rebating, jointing, and surface planing. When boring over 10mm depth, RPM must be 12,000. Great tool for clean surfacing finish due to design and geometry of bottom cutting inserts. For applications requiring more than just surface planing, this tool has much versatility and provides excellent finish! Z=2+2. **Maximum RPM: 12,000.**

| D | L2 | L1 | S | Rotation | Item# |
|------|------|-------|-------------|----------|-------------|
| 40mm | 30mm | 90mm | 3/4" x 55mm | RH | 6245.400.34 |
| 40mm | 30mm | 90mm | 25mm x 55mm | RH | 6245.400.30 |
| 60mm | 30mm | 105mm | 3/4" x 55mm | RH | 6245.600.34 |
| 60mm | 30mm | 105mm | 25mm x 55mm | RH | 6245.600.30 |
| 80mm | 12mm | 78mm | 3/4" x 55mm | RH | 6245.800.34 |
| 80mm | 12mm | 78mm | 25mm x 55mm | RH | 6245.800.30 |

Replacement Inserts:
 Item# 4200.012.00 (peripheral insert for Diameter 80mm)
 Item# 6419.030.00 (peripheral insert for Diameter 35mm, 40mm, 60mm)
 Item# 4200.012.00 (plunge insert for Diameter 35mm, 40mm)
 Item# 4200.020.00 (plunge insert for Diameter 60mm)
 Item# 4200.030.00 (plunge insert for Diameter 80mm)



DECORATIVE INSERT ROUTER BIT

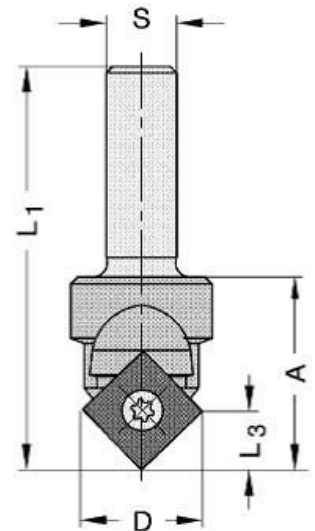
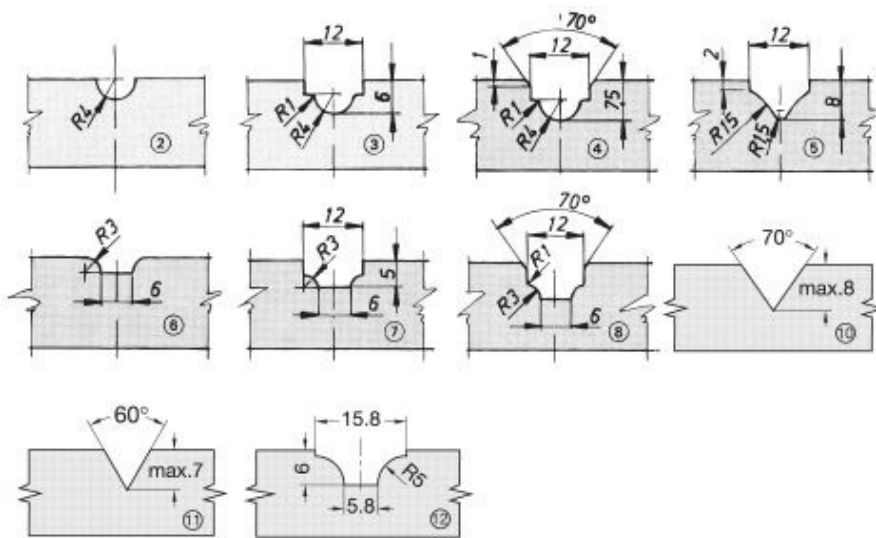
4319

A multi-use decorative insert router bit designed for versatility in grooving, lettering, round-over and engraving. This tool can also be supplied with small custom profiles that fit within the profiling parameters of the insert blank (shown below, right). Great tool for inside edge bevel on MDF shaker doors.

| D | L3 | A | L1 | S | Item# |
|------|-------|------|--------|-------------|-------------|
| 17mm | 8.5mm | 27mm | 57.5mm | 10mm x 30mm | 4319.012.00 |

Replacement Inserts:

- Item# 4200.012.00 (V-Groove)
- Item# 4319.012.02 (Profile 2, 3, and 4)
- Item# 4319.012.05 (Profile 5)
- Item# 4319.012.06 (Profile 6, 7, and 8)
- Item# 4319.012.09 (Profile 9)
- Item# 4319.012.10 (Profile 10)
- Item# 4319.012.11 (Profile 11)
- Item# 4319.012.12 (Profile 12)



Insert blank is
12mm x 12mm

Profiling Area (lines)
Scale 1:1

VARI-ANGLE INSERT ROUTER BIT

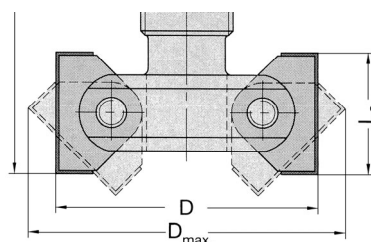
4099

For jointing and for producing angled cuts in solid wood or composite materials. Adjustable 0° to 45° up or 0° to 90°.

| D | L2 | S | OAL | Item# |
|-----------------|------|------|-------|-------------|
| 85mm-102mm max | 40mm | 20mm | 95mm | 4099.085.20 |
| 110mm-135mm max | 50mm | 25mm | 114mm | 4099.110.25 |

Replacement Inserts:

- Item# 4200.040.00 (beveled two sides, for L2=40mm)
- Item# 6419.040.00 (beveled four sides, for L2=40mm)
- Item# 4200.050.00 (beveled two sides, for L2=50mm)
- Item# 6419.051.00 (beveled four sides, for L2=50mm)



MORTISE BITS

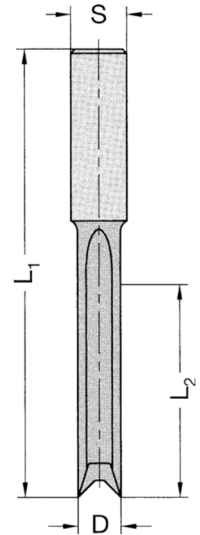
6107

CARBIDE TIPPED SLOT MORTISE BIT

| D | L2 | L1 | S | Flutes | Item# |
|------|------|-------|-------------|--------|--------------|
| 10mm | 50mm | 105mm | 13mm x 40mm | 2 | 6107.300.320 |

HIGH QUALITY STEEL SLOT MORTISE BIT

| D | L2 | L1 | S | Flutes | Item# |
|-------------------|------|-------|------|--------|-------------|
| 10mm Shank | | | | | |
| 6mm | 50mm | 73mm | 10mm | 4 | 6107.060.10 |
| 1/4" | 50mm | 73mm | 10mm | 4 | 6107.635.10 |
| 7mm | 50mm | 73mm | 10mm | 4 | 6107.070.10 |
| 5/16" | 50mm | 73mm | 10mm | 4 | 6107.793.10 |
| 8mm | 50mm | 73mm | 10mm | 4 | 6107.080.10 |
| 3/8" | 50mm | 73mm | 10mm | 4 | 6107.953.10 |
| 13mm Shank | | | | | |
| 6mm | 50mm | 90mm | 13mm | 4 | 6107.060.13 |
| 10mm | 65mm | 105mm | 13mm | 4 | 6107.100.13 |
| 12mm | 75mm | 115mm | 13mm | 4 | 6107.120.13 |
| 14mm | 85mm | 125mm | 13mm | 4 | 6107.140.13 |
| 16mm | 90mm | 130mm | 13mm | 4 | 6107.160.13 |
| 6mm | 45mm | 90mm | 13mm | 2 | 6107.062.13 |
| 8mm | 50mm | 95mm | 13mm | 2 | 6107.082.13 |
| 10mm | 60mm | 105mm | 13mm | 2 | 6107.102.13 |
| 12mm | 70mm | 115mm | 13mm | 2 | 6107.121.13 |
| 1/2" Shank | | | | | |
| 1/4" | 50mm | 73mm | 1/2" | 4 | 6107.635.12 |
| 3/8" | 60mm | 100mm | 1/2" | 4 | 6107.953.12 |

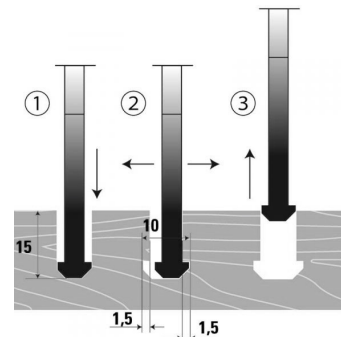


BIT FOR LAMELLO CLAMEX P[®] CONNECTORS

Solid carbide and PCD (diamond) bit for machining grooves for the Clamex[®] connector system. For more abrasive materials and longer tool life, the diamond coated version is recommended.

For Clamex groover, see page 114.

| D | Small Diameter | L1 | S | Flutes | Material | Item# |
|-------|----------------|------|------|--------|---------------|------------------|
| 9.8mm | 7mm | 80mm | 12mm | 2 | PCD | 7.810TL-20200130 |
| 9.8mm | 7mm | 80mm | 12mm | 2 | Solid Carbide | 810TL-20200130 |



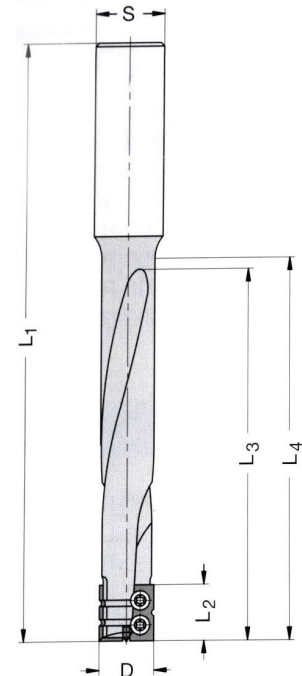
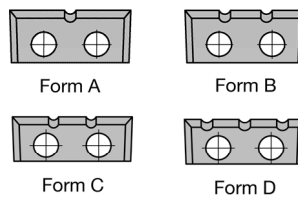
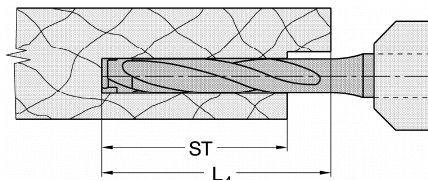
DEEP POCKET MORTISE BIT

6236

Insert tool for use when drilling/routing deep mortise pockets in composite and solid wood. This tool is primarily used for cutting lock pockets. Tool requires one Form A insert and one Form B insert (see below) per setup. The tool body is made of a special, high-density material that provides rigidity and reduces the risk of breakage. Provides vibration-free machining. **Recommended RPM: 12,000-18,000. Gradual Plunge Feed: 12m/minute (up/down). Maximum Cut Progression: 8mm-10mm solid wood; 15mm composites.**

| D | L2 | S | L1 | L3 | L4 | Item# |
|------|------|-------------|-------|-------|-------|-------------|
| 14mm | 16mm | 16mm x 60mm | 170mm | 96mm | 96mm | 6236.140.16 |
| 16mm | 16mm | 16mm x 45mm | 150mm | 105mm | 105mm | 6236.160.16 |
| 16mm | 16mm | 16mm x 55mm | 170mm | 105mm | 113mm | 6236.161.16 |
| 16mm | 16mm | 20mm x 55mm | 170mm | 105mm | 110mm | 6236.161.20 |
| 16mm | 16mm | 16mm x 55mm | 180mm | 105mm | 123mm | 6236.162.16 |
| 16mm | 16mm | 25mm x 65mm | 210mm | 105mm | 134mm | 6236.160.25 |
| 18mm | 16mm | 20mm x 55mm | 170mm | 105mm | 110mm | 6236.181.20 |

Replacement Inserts:
 Item# 6236.000.10 (Form A)
 Item# 6236.000.20 (Form B)
 Item# 6236.000.11 (for 14mm Diameter, Form C)
 Item# 6236.000.21 (for 14mm Diameter, Form D)



HELICAL PLANING CUTTER

4339

Ideal for trimming, jointing, rebating, hogging, and coping operations on solid wood and wood composite materials. For use on all CNC machining centers, this cutter has a maximum rpm of 18,000. Insert knives are four-sided to yield four cycles per insert set. The bottom of the cutter features two, reversible spurs for clean corners when cutting rebates. Cutter cuts flush on the bottom. Cutter head mounted on HSK 63F arbor adapter sold as one unit.

| D | Cut Length | Bore | Inserts | Item# |
|-------|------------|------|---------|-------------|
| 80mm | 80mm | 30mm | 2/16 | 4339.800.31 |
| 100mm | 100mm | 30mm | 2/24 | 4339.100.30 |

Replacement Inserts:

80mm:
 Item# 72023-6-01500-0 (peripheral inserts—for old style prior to 2019)
 Item# 72023-6-01380-0 (peripheral Inserts)
 Item# 72020-6-01420-0 (spurs on bottom)

100mm:
 Item# 72023-6-01515-0 (peripheral inserts)
 Item# 72019-6-01900-0 (spurs on bottom)

Special Advantages:

- High performance and better chip removal through helical positioned inserts
- Optimum division of cut and shear angles for high feed rates
- Perfect finish, no visible marks due to convex ground tips, precisely positioned
- Reduced noise level
- Perfect tool for pre-cutting arches in window production and other millwork tasks



HSK 63F TOOL HOLDER

6375

Manufactured of high quality, polished, anti-corrosive steel. All tool holders come with ball bearing collet nut. Balanced to ISO G2.5 specification.

| D | A | Collet Style | Item# |
|------|-------|--------------|---------------|
| 50mm | 70mm | ER32 | 6375.630.10 |
| 50mm | 70mm | ER32 | 6375.632.10* |
| 50mm | 100mm | ER32 | 6375.630.87 |
| 60mm | 75mm | RDO35/SYOZ25 | 6375.630.00 |
| 60mm | 115mm | RDO35/SYOZ25 | 6375.630.18 |
| 63mm | 76mm | ER40 | 6375.630.40 |
| 63mm | 80mm | RDO35/SYOZ25 | 6375.630.80** |
| 63mm | 90mm | ER40 | 6375.630.90 |
| 63mm | 115mm | ER40 | 6375.630.41 |

* without data chip hole in cone

** for Anderson



HSK 63F STAINLESS STEEL TOOL HOLDER

Stainless steel tool holders ideal for high humidity environments or in cutting applications using abrasive materials where water or coolant are used.

| A | Collet Style | Item# |
|------|--------------|---------------|
| 75mm | RDO35/SYOZ25 | 6375.630.00SS |
| 70mm | ER32 | 6375.630.10SS |
| 76mm | ER40 | 6375.630.40SS |

HSK85WS TOOL HOLDER

For use on CNC machines with HSK85WS tool interface used in timber/post/beam construction.

| A | Collet Style | Item# |
|------|--------------|-------------|
| 76mm | ER40 | 6375.850.00 |



PREZISO HSK 63F HIGH PRECISION CHUCK

6675

This highest precision tool holder is used in combination with high precision collets which together provide a repeat accuracy of 0.003mm (0.0001") Metric size collets are available from 3mm-25mm. Inch dimension collets available as shown below. Special sizes can be ordered with 25pc minimum quantity. **Increase tool life by 30% and more!**

| A1 | A | Item# |
|----------------|------------|-----------------|
| 18mm | 75mm | 6675.630.00 |
| Collets | | |
| Diameter | Length | Item# |
| 1/4" | 52mm | 21049-635 |
| 3/8" | 52mm | 21049-953 |
| 1/2" | 52mm | 21049-127 |
| 3/4" | 52mm | 21049-195 |
| Spanner Wrench | Length | Item# |
| C-Spanner | 50mm x 5mm | 39155-0-50000-0 |



HYDRO HSK 63F TOOL HOLDER

6390

Compact design hydro tool holders. Built-in safety device prevents the tool from falling out when tool holder is not pressurized. Safe and easy tool changes with perfect accuracy and repeatability. Balanced to G2.5 at 25,000 rpm. Collet reducers available on request!

| D (I.D.) | A | Item# |
|---------------|--------|-------------|
| 12mm | 68mm | 6390.120.00 |
| 16mm | 74mm | 6390.160.00 |
| 20mm | 80mm | 6390.200.00 |
| 25mm | 87.5mm | 6390.250.00 |
| 3/8" | 68mm | 6390.953.00 |
| 1/2" | 69.5mm | 6390.130.00 |
| 3/4" | 78.5mm | 6390.190.00 |
| 1" | 87.5mm | 6390.254.00 |
| Torque Wrench | | 6390.190.50 |

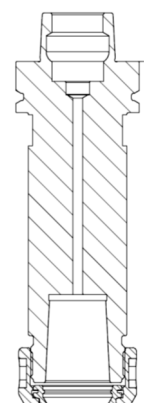


HSK 63F TOOL HOLDERS FOR 5-AXIS USE

S

Long reach tool holders for 5-axis machining.

| D | A | Collet Style | Item# |
|------|-------|--------------|-------------|
| 60mm | 178mm | RDO35/SYOZ25 | 6379.630.17 |
| 60mm | 200mm | RDO35/SYOZ25 | 6379.630.20 |
| 60mm | 250mm | RDO35/SYOZ25 | 6379.630.25 |



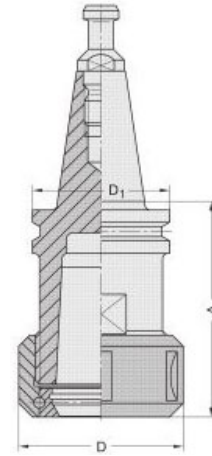
ISO/BT/SK TOOL HOLDER

6369/6370

Precision balanced and manufactured of high-quality, polished, anti-corrosive steel. All tool holders come with a ball bearing collet nut and removable pull stud. With the ball bearing collet nut, these tool holders can be used for tools running either clockwise or counter-clockwise.

| D | A | Collet Style | Item# |
|------|-------|--------------|-------------------|
| 50mm | 50mm | ER32 | 6369.350.00*** |
| 50mm | 50mm | ER32 | 6369.350.00SS*** |
| 50mm | 60mm | ER32 | 6369.351.00** |
| 70mm | 60mm | RDO35/SYOZ25 | 6369.364.00 |
| 70mm | 60mm | RDO35/SYOZ25 | 6369.364.00SS**** |
| 70mm | 70mm | RDO35/SYOZ25 | 6369.371.00 |
| 50mm | 65mm | ER32 | 6369.400.00 |
| 50mm | 55mm | ER32 | 6370.355.00* |
| 50mm | 55mm | ER32 | 6370.355.00SS**** |
| 70mm | 115mm | RDO35/SYOZ25 | 6370.370.00* |

* for SCM Routech/Morbidelli
 ** for Colombo Spindle
 *** for HSD Spindle
 **** Stainless steel construction



HSK 63F HEAT SHRINK TOOL HOLDER

6378

Heat shrink tool holders provide the most accurate, high precision clamping option for CNC machining. Improved surface quality through exact concentricity (0.0002"/.003mm). HSK-E and HSK-A available on request. **Highly recommended for use with PCD (diamond) and insert tooling!**

| D | A | Item# |
|------|------|-------------|
| 1/4" | 75mm | 6378.635F63 |
| 3/8" | 75mm | 6378.953F63 |
| 1/2" | 75mm | 6378.127F63 |
| 5/8" | 75mm | 6378.160F63 |
| 3/4" | 75mm | 6378.195F63 |
| 20mm | 75mm | 6378.200F63 |
| 25mm | 75mm | 6378.250F63 |

LONG REACH FOR 5-AXIS MACHINING

| D | A | Item# |
|------|-------|-------------|
| 20mm | 108mm | 6378.201F63 |
| 25mm | 108mm | 6378.251F63 |



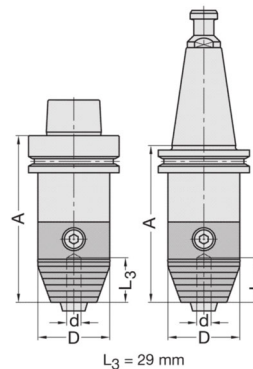
UNIVERSAL BORING CHUCK

6380

This universal CNC boring chuck is the optimum solution for drilling with high precision concentricity on a CNC machining center. Tempered jaws provide special protection from wood chips and dust entering into the unit. Variable adjustment of chucking capacity. With extremely high clamping and retention strength, this holder can be used in CW or CCW rotation. **Drills and boring bit used in this item must have a minimum shank clamping length of 20mm (0.78").**

| D | S | A | d | Item# |
|------|---------|----|----------|-------------|
| 50mm | HSK 63F | 97 | 1mm-13mm | 6380.000.13 |
| 57mm | HSK 63F | 97 | 3mm-16mm | 6380.800.00 |
| 50mm | SK 30 | 90 | 1mm-13mm | 6380.200.00 |
| 50mm | SK 30 | 90 | 1mm-13mm | 6380.300.00 |

Recommended Usage:
 Item# 6380.200.00 (for SK30 HSD spindles)
 Item# 6380.300.00 (for SK30 Colombo spindles)
 Item# 6380.700.00 (for HSK 63F)
 Item# 6380.800.00 (for HSK 63F)



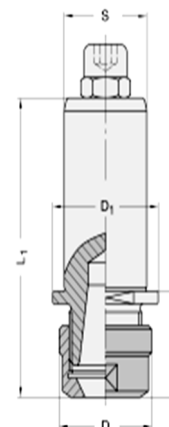
TOOL HOLDER FOR WEEKE BHX

6365

Hardened, ground and precision balanced, this tool holder accepts ER16 collets (available up to 10mm diameter) and is designed for use with Weeke BHX machines that have a hydro clamping system.

This holder has also found popularity for clamping extremely small diameter drills (less than 1mm) since ER16 collets are available as small as 1/32". This tool holder can be mounted like any tool shank on any machine using HSK tool holders or ISO30/ER40 collet style.

| D | D1 | L1 | A | S | For Collet Style | Item# |
|------|------|------|--------|------|------------------|-------------|
| 28mm | 32mm | 75mm | 28.5mm | 25mm | ER16 | 6365.020.25 |



COLLET NUTS

For use on ISO/SK 30 and HSK-F63 tool holders.

| Nut Size | Nut Type | Collet Style | Slots | Item# |
|------------------|----------|--------------|--------|-------------|
| M40 x 1.5mm (50) | Bearing | ER32 | Closed | 6366.020.00 |
| M40 x 1.5mm (50) | Bearing | ER32 | Open | 6366.021.00 |
| M48 x 1.5mm (60) | Bearing | RDO35/SYOZ25 | Closed | 6366.025.00 |
| M50 x 1.5mm (63) | Bearing | ER40 | Open | 6366.023.00 |
| M50 x 1.5mm (63) | Bearing | ER40 | Closed | 6366.024.00 |
| M40 x 1.5mm (50) | Static | ER32 | Open | 6366.015.00 |

6366



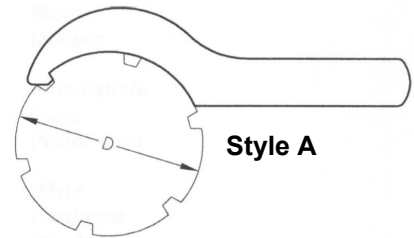
Ball Bearing Nut

Static Nut

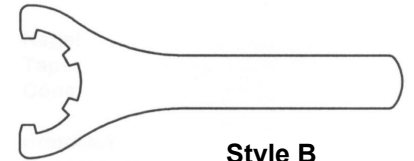
COLLET NUT WRENCH

| Nut Size | Collet Style | Slots/Style | Item# |
|-------------|--------------|-------------|-------------|
| M40 x 1.5mm | ER32 | Closed (A) | 6366.000.20 |
| M40 x 1.5mm | ER32 | Open (B) | 6366.000.21 |
| M48 x 1.5mm | RDO35/SYOZ25 | Closed (A) | 6366.000.25 |
| M50 x 1.5mm | ER40 | Open (B) | 6366.000.22 |

6366



Style A



Style B

TOOL HOLDER FORKS

| Tool Holder Style | Item# | Machines |
|-------------------|-------------|--|
| HSK 63F | 6375.999.01 | Biesse, Onsrud, Gannomat, Laguna, Multicam |
| ISO30 | 6375.999.02 | Various |

6375



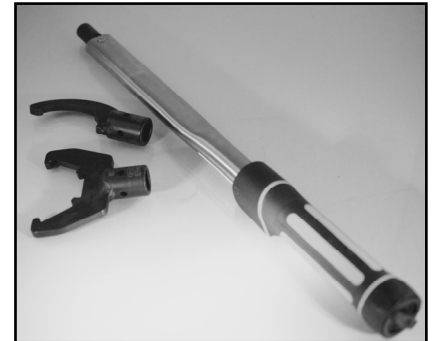
TORQUE WRENCH

6367

Correct torque is important to maximize tool life and prevent tool slippage and breakage.

| Description | Item# |
|---|--------------|
| 200 TH torque wrench | 6367.200.00 |
| Collet key for ER16 collet style | 6367.016.00 |
| Collet key for ER 32 collet style | 6367.032.00 |
| Collet key for ER40 collet style | 6367.040.00 |
| Collet key for RDO35/SYOZ 25 collet style | 6367.035.00 |
| Collet key for 100mm dust nut | 6367.100.00C |
| Collet key for 80mm dust nut | 6367.080.00C |

Recommended Torque: ER32 Torque = 100 ft/lbs
ER40 Torque = 130 ft/lbs
RDO35/SYOZ Torque = 90 ft/lbs



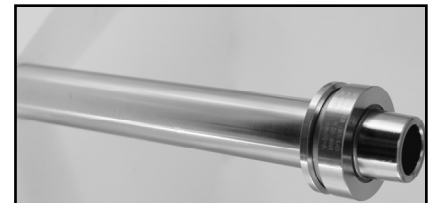
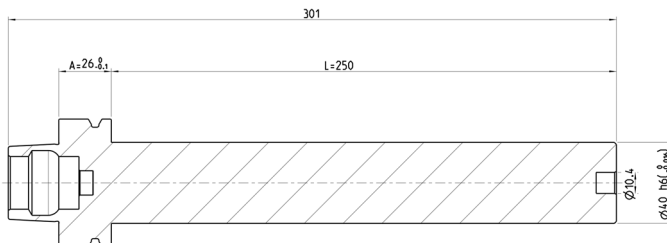
HSK 63F CALIBRATION BAR/TEST BAR

6375

This maintenance tool offers a quick and easy way to test your CNC machine for accuracy and alignment after a crash, machine installation, relocation, or simply as a periodic performance test.

It helps identify excessive runout or axial play early on—a factor that will greatly reduce machine performance and contribute to rapid tool wear and breakage. Regular spindle inspection and calibration will ultimately reduce downtime and prevent costly repairs of spindle and bearings in the long-term. Custom sizes on request.

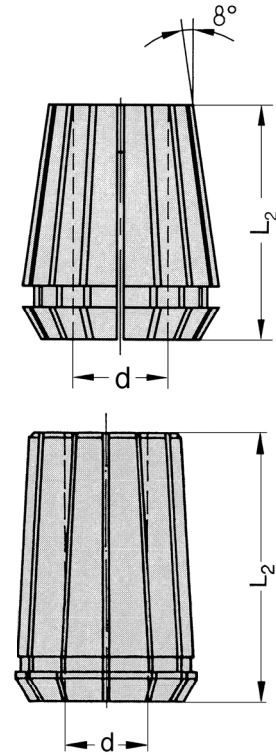
| Style | Dimensions | Item# |
|--------|----------------------------|-------------|
| HSK63F | OAL=301mm, A=26mm, L=250mm | 6375.300.00 |



PRECISION COLLET

| L2 | 40mm | 46mm | 52mm |
|-------------|-------------|-------------|--------------|
| d | ER32 | ER40 | RDO35/SYOZ25 |
| 1/16" | 6363.158.00 | - | - |
| 3mm | 6363.030.00 | - | - |
| 1/8" | 6363.032.00 | 6363.032.10 | 6360.032.10 |
| 4mm (5/32") | 6363.040.00 | 6363.040.10 | 6360.040.10 |
| 3/16" | 6363.476.00 | 6363.187.10 | 6360.187.10 |
| 1/4" | 6363.635.00 | 6363.635.10 | 6360.635.10 |
| 8mm (5/16") | 6363.080.00 | 6363.080.10 | 6360.080.10 |
| 3/8" | 6363.953.00 | 6363.953.10 | 6360.953.10 |
| 10mm | 6363.100.00 | 6363.100.10 | 6360.100.10 |
| 7/16" | 6363.437.00 | 6363.111.10 | 6360.111.10 |
| 12mm | 6363.120.00 | 6363.120.10 | 6360.120.10 |
| 1/2" | 6363.130.00 | 6363.130.10 | 6360.130.10 |
| 14mm | 6363.140.00 | 6363.140.10 | 6360.140.10 |
| 16mm (5/8") | 6363.160.00 | 6363.160.10 | 6360.160.10 |
| 3/4" | 6363.190.00 | 6363.190.10 | 6360.195.10 |
| 20mm | 6363.200.00 | 6363.200.10 | 6360.200.10 |
| 25mm | - | 6363.250.10 | 6360.250.10 |
| 1" | - | 6363.254.10 | 6360.254.10 |

6360/6363



CYCLONE DUST CONTROL COLLET NUT

6363

The cyclone dust extraction nut is designed to more efficiently remove dust chips in nested router operations. Manufactured from lightweight alloy, balanced to G2.5, and rated for up to 20,000 RPM. When using the cyclone dust nut, the tool cut length should not be any longer than necessary for optimum results. This keeps the shroud as close to the work surface as possible, thereby creating the best vacuum.

The cyclone is designed to work with any tool holder that accepts standard ER32, ER40, or RDO35 (SYOZ25) collets and comes complete with tightening wrench.

| Collet Style | Item# | D |
|--------------------|--------------|-----|
| ER32 | 6363.001.32 | 100 |
| ER32 | 6363.008.32 | 80 |
| ER40 | 6363.001.40 | 100 |
| ER40 | 6363.008.40 | 80 |
| RDO35 | 6363.001.25 | 100 |
| RDO35 | 6363.008.25 | 80 |
| Cyclone Torque Key | 6367.100.00C | 100 |
| Cyclone Torque Key | 6367.080.00C | 80 |

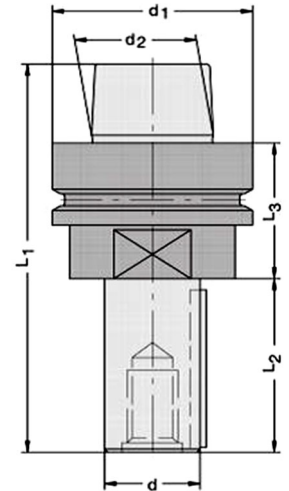


HSK 63F ARBOR ADAPTER

6377

Tempered steel arbor adapter for mounting single or multi-piece cutters on a CNC machine. Higher clamping power and safety due to double-threaded, end retaining screw. Can be used for CW or CCW rotation. Always consult your machine handbook to assure that total weight of arbor and cutter does not exceed spindle limit. **Custom sizes and styles are available on request!**

| D | L1 | L2 | L3 | Keyway | Item# |
|--------|-------|-------|------|-------------|-------------|
| 20mm | 110mm | 40mm | 45mm | 6mm x 1.5mm | 6377.721.40 |
| 20mm | 125mm | 55mm | 45mm | 6mm x 1.5mm | 6377.721.55 |
| 20mm | 140mm | 70mm | 45mm | 6mm x 1.5mm | 6377.721.70 |
| 30mm | 125mm | 55mm | 45mm | 8mm x 2mm | 6377.730.55 |
| 30mm | 150mm | 70mm | 45mm | 8mm x 2mm | 6377.731.80 |
| 1-1/4" | 160mm | 80mm | 45mm | drive holes | 6377.730.76 |
| 1-1/4" | 135mm | 55mm | 45mm | drive holes | 6377.731.76 |
| 1-1/4" | 180mm | 100mm | 45mm | drive holes | 6377.735.10 |

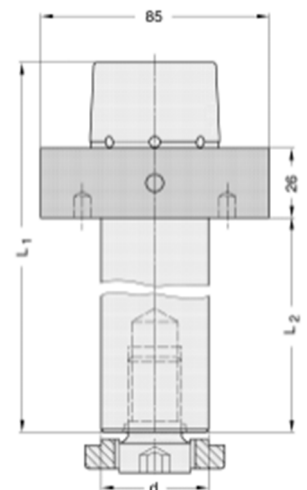


HSK85WS ARBOR ADAPTER

6377

Hardened arbor adapter for arbor tooling such as profile cutters and planer heads used on WEINIG moulders.

| D | L1 | L2 | L3 | TK | Item# |
|------|-------|-------|------|------|--------------|
| 40mm | 98mm | 40mm | 26mm | 54mm | 6377.040.85W |
| 40mm | 138mm | 80mm | 26mm | 54mm | 6377.080.85W |
| 40mm | 188mm | 130mm | 26mm | 54mm | 6377.130.85W |



SAW BLADE ADAPTER

6374

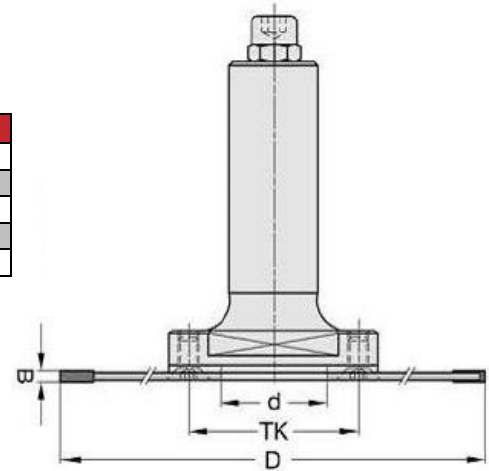
Arbor for mounting groovers and saw blades for horizontal grooving and sawing. Maximum kerf width to 10mm. Kerf width of 3.5mm and below require an additional clamping ring (included). Maximum blade diameter is 200mm (8") for a maximum depth of cut of 65mm. It is recommended that this adapter be purchased with a heat shrink tool holder where possible for maximum accuracy.

Blades used on this arbor require pinholes as follows:

- Bore (d) = 22mm need four 6mm holes on a 36mm circle
- Bore (d) = 30mm need four 6mm holes on a 48mm circle

| d | L1 | L2 | TK | S | Item# |
|------|------|-----|------|-------------|-------------|
| 22mm | 90mm | 4mm | 36mm | 3/4" x 65mm | 6374.022.34 |
| 22mm | 90mm | 4mm | 36mm | 25mm x 65mm | 6374.022.04 |
| 30mm | 74mm | 4mm | 48mm | 16mm x 60mm | 6374.030.16 |
| 30mm | 90mm | 4mm | 48mm | 3/4" x 65mm | 6374.030.34 |
| 30mm | 90mm | 4mm | 48mm | 25mm x 65mm | 6374.030.04 |

- Additional Parts:**
- Item# 39541-0-04000-3
(clamping ring 60mm x 4mm x 30mm, d = 30mm)
 - Item# 39541-0-04022-3
(clamping ring 50mm x 4mm x 22mm, d = 22mm)
 - Item# 39125-0-06016-R
(M6 x 16mm screw)
 - Item# 39140-0-00302-0 (wrench SW3)



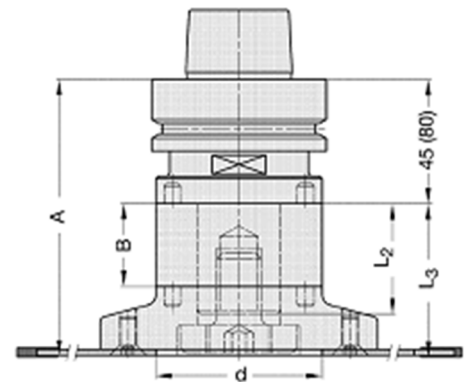
SAW BLADE FLANGE ASSEMBLY (BLADES >350MM)

6373

Saw blade arbor/flange assembly for mounting saw blades for horizontal sawing on CNC Machines. The flange diameter (large o.d.) of this assembly is 100mm. The maximum saw blade diameter to be used on this adapter is 350mm. Also available for machines utilizing SK30, SK40 and HSK-E.

Saw blades used on this arbor require a 60mm bore and six (6) M6 pinholes located on an 80mm circle.

| A | L2 | d | L3 | Style | Item# |
|-------|------|------|------|---------|-------------|
| 100mm | 40mm | 30mm | 55mm | HSK 63F | 6373.100.00 |
| 115mm | 55mm | 45mm | 70mm | HSK 63F | 6373.115.00 |
| 140mm | 80mm | 75mm | 95mm | HSK 63F | 6373.140.00 |



SAW BLADE FLANGE ASSEMBLY (BLADES >400MM)

6373

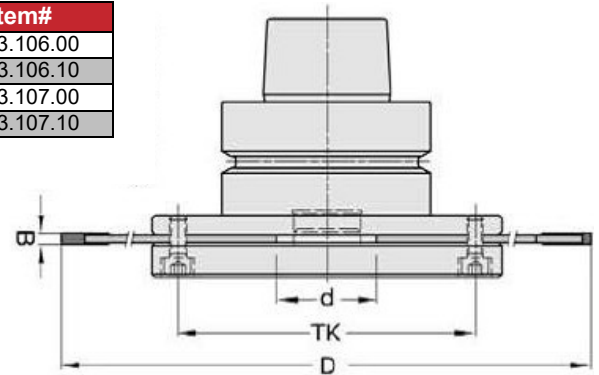
Tempered saw blade flange for precise mounting of blades on CNC machines. The flange diameter (large o.d.) of this assembly is 106mm. The maximum saw blade diameter to be used on this adapter is 400mm.

Saw blades used on this arbor require a 30mm bore and pinholes, depending on the "A" dimension.

If A = 105: Four (4) 5.5mm holes on a 52mm circle

If A = 130/160mm: Eight (8) 5.5mm holes on a 90mm circle

| D | d | A | TK | Style | Item# |
|-------------|------|------|------|------------------------|-------------|
| Up to 400mm | 30mm | 40mm | 90mm | with counter flange | 6373.106.00 |
| Up to 400mm | 30mm | 40mm | 90mm | without counter flange | 6373.106.10 |
| Up to 400mm | 30mm | 50mm | 90mm | with counter flange | 6373.107.00 |
| Up to 400mm | 30mm | 50mm | 90mm | without counter flange | 6373.107.10 |



SAW BLADE TOOL HOLDER FOR 5-AXIS MACHINING

6372

5-axis machining can present special requirements when the standard length of a tool holder is too short. We offer solutions to this problem, with longer-length collet chucks, long-length heat shrink chucks (featuring a narrow design that doesn't obstruct reach), and our long reach saw blade tool adapter.

| D | S | A | Max. Blade Diameter | Item# |
|------|---------|-------|---------------------|-------------|
| 30mm | HSK 63F | 105mm | 260mm | 6372.105.00 |
| 30mm | HSK 63F | 130mm | 350mm | 6372.130.00 |
| 30mm | HSK 63F | 160mm | 350mm | 6372.160.00 |



CNC TOOL SET-UP FIXTURE

6355

Make tool setup a snap! When firmly clamped to a work bench, our set up fixtures offer a safe and effective way to check and prepare tooling for use. Tool locks into position with ball bearing seat. The “Plus” tool setup fixture can be turned into a complete measuring system by purchasing the optional Digitec measuring gauges shown below (sold separately).

| Chuck Style | Type | Item# |
|-------------|-------|-------------|
| HSK 63F | Basic | 6355.630.01 |
| HSK 63F | Plus | 6355.630.00 |

Setup fixtures available for: HSK-E 40, SK30, HSK-F 50, HSK-E 50, SK40, BT40, SK30 with serrated collar (Morbidelli), ISO30, BT30, and HSK-W 85 (Weinig) on request.



COMPLETE DIGITEC TOOL MEASURING SYSTEM

6355/21175

Efficient and economical tool measuring system. Maximum height measurement is 270mm as measured from the HSK shoulder to the end of the tool.

| Chuck Style | Item# |
|---------------------------------|-------------|
| HSK 63F/HSK-E 63 | 6355.630.10 |
| HSK-E 40 | 6355.630.11 |
| SK40/BT40 | 6355.630.12 |
| SK30 with gear (SCM/Morbidelli) | 6355.630.13 |
| ISO30 (CMS) BT30 | 6355.630.14 |
| HSK 85W (Weinig) | 6355.630.15 |



MEASURING GAUGE

| Chuck Style | Measuring Type | Item# |
|-------------|---------------------------|-----------------|
| HSK 63F | Height Gauge | 21175-0-13500-0 |
| HSK 63F | Height and Diameter Gauge | 21175-0-00000-0 |



TOOL PRESETTER

P368

The **P368LR** tool presetter is a precision tool measuring instrument which is easy to use and designed for the needs of CNC operators to obtain quick measurements.

The **P368XL** measures both straight and profiled tools, and it offers precise measurement and setup of tool sets.

Interchangeable tool mounts available for HSK-F 63, HSK-E 63, ISO30, SK30/40/50.

Finding popularity in the wood, composites, metal and glass industries, where there is a constant need to set or adjust tools, it can measure both the radius/diameter and tool height in a snap!

Technical Features:

- Alpha-numeric keys
- Backlit display
- Memory of up to 4 machine origins
- Metric to inch conversion
- Hold function



P368LR

| Measuring Capabilities | Dimensions | Resolution | Weight | Power |
|-------------------------------|--|------------|-----------------|-----------------------------|
| 250mm diameter x 300mm height | 410mm wide x 150mm deep x 540mm height | 0.01mm | 12kg (26.5 lbs) | 2x AA Batteries per display |

P368XL

| Measuring Capabilities | Dimensions | Resolution | Weight | Power |
|-------------------------------|--|------------|---------------|-----------------------------|
| 400mm diameter x 300mm height | 490mm wide x 200mm deep x 580mm height | 0.01mm | 33kg (73 lbs) | 2x AA Batteries per display |

AGGREGATE HEADS

CNC aggregate heads come in a variety of standard designs for drilling, routing, grooving, sawing, planing, moulding, sanding, and many other specialty application executions. Lending 5-axis capability to three-axis machines, these precision machine adapters make difficult to machine challenges a breeze. Manufactured in Germany by highly skilled technicians, they are assembled, tested, and delivered in either grease or oil lubrication version—depending on the intended application and frequency of use. CNC aggregate heads are available with HSK, ISO/SK and other machine interfaces and individualized torque arm ring based on specific machine need.

Special Application Examples:

- Multi-head Boring Block
- Oscillating Lock Recess Head
- Floating Head Aggregate
- Cutter Head Aggregate
- Multi-saw Aggregate
- Sanding Aggregates
- Creasing Tool Aggregates
- Custom Aggregates for difficult jobs!



OSCILLATING SANDING HEAD

CNC-AG

Sanding and polishing unit for CNC routers. The sanding base is designed to accept standard hook and loop sanding pads available from every hardware store. This popular sanding head is equipped with three (3) resistance springs which provide a floating/oscillating capacity up to 4mm. Ideal for sanding flat or uneven surfaces as well as polishing solid surface and similar materials. Shank diameter is 16mm, and this sanding unit can be mounted on standard tool holders using a 16mm collet. For optimum performance, pair with an HSK Heat Shrink Toolholder.

| D | S | Item# |
|-------|------|------------|
| 76mm | 16mm | CNC-AG 76 |
| 125mm | 16mm | CNC-AG 125 |
| 150mm | 16mm | CNC-AG 150 |

Replacement Pads:
 Item# CNC-AGD 76 (for CNC-AG 76)
 Item# CNC-AGD 125 (for CNC-AG 125)
 Item# CNC-AGD 150 (for CNC-AG 150)



SAW BLADES FOR AGGREGATE HEADS

2062

Carbide-tipped saw blades for use with aggregate heads. Note the standard configuration of pinholes specific to the brand/model aggregate. Can be modified as needed. **Other sizes available upon request.**

| D | B | d | Pinholes | # of Teeth | Grind | Machine | Item# |
|-------|-------|------|--------------------|------------|-------|-------------------|-------------|
| 90mm | 3.5mm | 30mm | - | 24 | ATB | Robland | 2062.090.20 |
| 100mm | 3.2mm | 30mm | - | 20 | F | Weeke | 2062.100.30 |
| 120mm | 3.2mm | 30mm | 4/6/48 | 24 | ATB | | 2062.120.24 |
| 120mm | 3.2mm | 20mm | 3+3/4.5/35 | 24 | ATB | SCM | 2062.121.24 |
| 120mm | 4.0mm | 35mm | Multiple | 30 | ATB | Biesse, Busselato | 2062.120.35 |
| 125mm | 3.2mm | 30mm | 4+4/6/48 | 36 | ATB | Weeke | 2062.125.32 |
| 150mm | 3.2mm | 30mm | 4+4/6/48 | 24 | ATB | Felder, AES | 2062.150.24 |
| 150mm | 3.2mm | 30mm | 4+4/6/48 | 36 | ATB | | 2062.150.36 |
| 180mm | 3.2mm | 30mm | 4/7/52 | 30 | ATB | Homag, Weeke | 2062.180.30 |
| 180mm | 3.2mm | 30mm | 4/7/1952 | 36 | ATB | Homag, Weeke | 2062.180.36 |
| 180mm | 3.2mm | 30mm | 4/7/52 | 42 | ATB | Homag, Weeke | 2062.180.42 |
| 180mm | 3.2mm | 30mm | 4/7/52 | 56 | ATB | Homag, Weeke | 2062.180.56 |
| 180mm | 3.2mm | 35mm | 1/6/46+1/6/50 | 30 | ATB | Biesse | 2062.181.30 |
| 180mm | 3.2mm | 35mm | 1/6/46+1/6/50 | 58 | ATB | Biesse | 2062.181.58 |
| 180mm | 3.2mm | 40mm | 4+4/6/52 | 42 | ATB | Benz (Flex 5) | 2062.181.42 |
| 180mm | 3.2mm | 40mm | 4+4/6/52 | 56 | ATB | Benz(Flex 5) | 2062.181.56 |
| 180mm | 4.0mm | 30mm | 2/6/42+4/5.5-10/45 | 42 | ATB | Felder | 2062.182.42 |
| 220mm | 2.8mm | 30mm | 4/6.5/60 | 36 | ATB | IMA | 2062.220.36 |
| 240mm | 3.2mm | 30mm | 4/5.6/52 | 54 | TCG | Homag | 2062.240.54 |
| 240mm | 3.2mm | 40mm | 8/5.6/52 | 54 | TCG | Homag | 2062.241.54 |
| 250mm | 3.2mm | 30mm | 2/6/42 | 60 | ATB | Homag | 2062.250.60 |
| 250mm | 3.2mm | 30mm | 2/6/42 | 60 | TCG | Homag | 2062.251.60 |
| 280mm | 3.2mm | 30mm | 2/7/42 | 60 | TCG | Homag | 2062.280.60 |
| 300mm | 3.2mm | 50mm | 6/5.5/80+1/6/80 | 72 | ATB | Biesse | 2062.300.72 |

TCG = Triple Chip Grind
ATB = Alternate Top Grind
F = Flat Top Grind



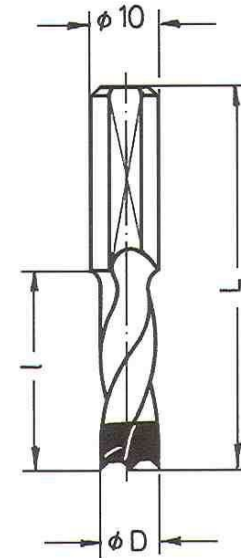
BRAD POINT BITS—CARBIDE TIPPED

6024

Carbide tipped drill bits for blind holes. 10mm shank with height adjustment set screw. Flat landing on shank. Other sizes available on request.

57MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|----------------|--------|--------|-------------|-------------|-------------|
| 4mm | 57mm | 27mm | 10mm x 30mm | 6024.040.00 | 6024.040.01 |
| 4.76mm (3/16") | 57mm | 27mm | 10mm x 30mm | 6024.476.00 | 6024.476.01 |
| 5mm | 57mm | 27mm | 10mm x 30mm | 6024.050.00 | 6024.050.01 |
| 5.1mm | 57mm | 27mm | 10mm x 30mm | 6024.051.00 | 6024.051.01 |
| 5.2mm | 57mm | 27mm | 10mm x 30mm | 6024.052.00 | 6024.052.01 |
| 5.5mm (7/32") | 57mm | 27mm | 10mm x 30mm | 6024.555.00 | 6024.555.01 |
| 6mm | 57mm | 27mm | 10mm x 30mm | 6024.060.00 | 6024.060.01 |
| 6.35mm (1/4") | 57mm | 27mm | 10mm x 30mm | 6024.635.00 | 6024.635.01 |
| 7mm | 57mm | 27mm | 10mm x 30mm | 6024.070.00 | 6024.070.01 |
| 7.14mm (9/32") | 57mm | 27mm | 10mm x 30mm | 6024.714.00 | 6024.714.01 |
| 7.5mm | 57mm | 27mm | 10mm x 30mm | 6024.075.00 | 6024.075.01 |
| 8mm | 57mm | 27mm | 10mm x 30mm | 6024.080.00 | 6024.080.01 |
| 8.2mm | 57mm | 27mm | 10mm x 30mm | 6024.082.00 | 6024.082.01 |
| 8.5mm | 57mm | 27mm | 10mm x 30mm | 6024.085.00 | 6024.085.01 |
| 9mm | 57mm | 27mm | 10mm x 30mm | 6024.090.00 | 6024.090.01 |
| 9.5mm (3/8") | 57mm | 27mm | 10mm x 30mm | 6024.953.00 | 6024.953.01 |
| 10mm | 57mm | 27mm | 10mm x 30mm | 6024.100.00 | 6024.100.01 |
| 11mm | 57mm | 27mm | 10mm x 30mm | 6024.110.00 | 6024.110.01 |
| 11.1mm (7/16") | 57mm | 27mm | 10mm x 30mm | 6024.111.00 | 6024.111.01 |
| 12mm | 57mm | 27mm | 10mm x 30mm | 6024.120.00 | 6024.120.01 |
| 12.7mm (1/2") | 57mm | 27mm | 10mm x 30mm | 6024.127.00 | 6024.127.01 |
| 13mm | 57mm | 27mm | 10mm x 30mm | 6024.130.00 | 6024.130.01 |
| 14mm | 57mm | 27mm | 10mm x 20mm | 6024.140.00 | 6024.140.01 |
| 15mm | 57mm | 27mm | 10mm x 20mm | 6024.150.00 | 6024.150.01 |
| 15.8mm (5/8") | 57mm | 27mm | 10mm x 20mm | 6024.158.00 | 6024.158.01 |
| 16mm | 57mm | 27mm | 10mm x 20mm | 6024.160.00 | 6024.160.01 |



70MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|----------------|--------|--------|-------------|-------------|-------------|
| 4mm | 70mm | 35mm | 10mm x 30mm | 6024.040.10 | 6024.040.11 |
| 4.5mm | 70mm | 35mm | 10mm x 30mm | 6024.045.10 | 6024.045.11 |
| 4.76mm (3/16") | 70mm | 35mm | 10mm x 30mm | 6024.476.10 | 6024.476.11 |
| 5mm | 70mm | 35mm | 10mm x 30mm | 6024.050.10 | 6024.050.11 |
| 5.1mm | 70mm | 35mm | 10mm x 30mm | 6024.051.10 | 6024.051.11 |
| 5.2mm | 70mm | 35mm | 10mm x 30mm | 6024.052.10 | 6024.052.11 |
| 5.5mm (7/32") | 70mm | 35mm | 10mm x 30mm | 6024.055.10 | 6024.055.11 |
| 6mm | 70mm | 35mm | 10mm x 30mm | 6024.060.10 | 6024.060.11 |
| 6.35mm (1/4") | 70mm | 35mm | 10mm x 30mm | 6024.635.10 | 6024.635.11 |
| 6.5mm | 70mm | 35mm | 10mm x 30mm | 6024.065.10 | 6024.065.11 |
| 6.7mm | 70mm | 35mm | 10mm x 30mm | 6024.067.10 | 6024.067.11 |
| 7mm | 70mm | 35mm | 10mm x 30mm | 6024.070.10 | 6024.070.11 |
| 7.14mm (9/32") | 70mm | 35mm | 10mm x 30mm | 6024.714.10 | 6024.714.11 |
| 7.5mm | 70mm | 35mm | 10mm x 30mm | 6024.075.10 | 6024.075.11 |
| 8mm (5/16") | 70mm | 35mm | 10mm x 30mm | 6024.080.10 | 6024.080.11 |
| 8.1mm | 70mm | 35mm | 10mm x 30mm | 6024.081.10 | 6024.081.11 |
| 8.2mm | 70mm | 35mm | 10mm x 30mm | 6024.082.10 | 6024.082.11 |
| 8.5mm | 70mm | 35mm | 10mm x 30mm | 6024.085.10 | 6024.085.11 |
| 8.7mm | 70mm | 35mm | 10mm x 30mm | 6024.087.10 | 6024.087.11 |
| 9mm | 70mm | 35mm | 10mm x 30mm | 6024.090.10 | 6024.090.11 |
| 9.52mm (3/8") | 70mm | 35mm | 10mm x 30mm | 6024.953.10 | 6024.953.11 |
| 10mm | 70mm | 35mm | 10mm x 30mm | 6024.100.10 | 6024.100.11 |

Recommended feed rate for drill bits:

| RPM | Feedrate m/min |
|-------|----------------|
| 3,000 | 1.0-2.0 |
| 4,500 | 1.5-2.5 |
| 6,000 | 2.0-3.5 |
| 9,000 | 2.5-5.5 |

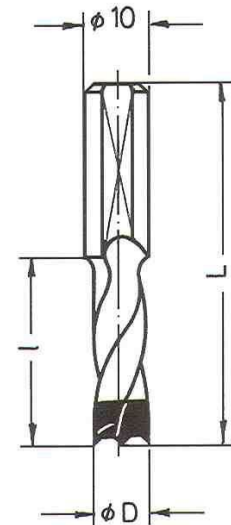
Depending on the material, the feed speed should be fine-tuned within the above parameters.

BRAD POINT BITS—CARBIDE TIPPED continued

6024

70MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|----------------|--------|----------------------|-------------|-------------|-------------|
| 10.4mm | 70mm | 35mm | 10mm x 30mm | 6024.104.10 | 6024.104.11 |
| 11mm | 70mm | 35mm | 10mm x 30mm | 6024.110.10 | 6024.110.11 |
| 11.1mm (7/16") | 70mm | 35mm | 10mm x 30mm | 6024.111.10 | 6024.111.11 |
| 12mm | 70mm | 35mm | 10mm x 30mm | 6024.120.10 | 6024.120.11 |
| 12.7mm (1/2") | 70mm | 35mm | 10mm x 30mm | 6024.127.10 | 6024.127.11 |
| 13mm | 70mm | 35mm | 10mm x 20mm | 6024.130.10 | 6024.130.11 |
| 14mm | 70mm | 35mm | 10mm x 20mm | 6024.140.10 | 6024.140.11 |
| 15mm | 70mm | 35mm <td 10mm x 20mm | 6024.150.10 | 6024.150.11 | |
| 15.8 (5/8") | 70mm | 35mm | 10mm x 20mm | 6024.158.10 | 6024.158.11 |
| 16mm | 70mm | 35mm | 10mm x 20mm | 6024.160.10 | 6024.160.11 |
| 19mm | 70mm | 35mm | 10mm x 20mm | 6024.190.10 | 6024.190.11 |
| 20mm | 70mm | 35mm | 10mm x 20mm | 6024.200.10 | 6024.200.11 |

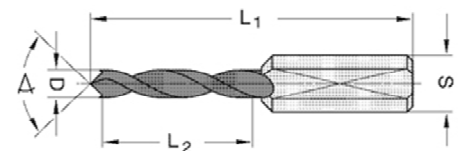


BRAD POINT BITS—SOLID CARBIDE

6024

57MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|---------------|--------|--------|-------------|---------------|---------------|
| 3mm | 57mm | 25mm | 10mm x 30mm | 6024.030.00SC | 6024.030.01SC |
| 4mm | 57mm | 25mm | 10mm x 30mm | 6024.040.00SC | 6024.040.01SC |
| 5mm | 57mm | 25mm | 10mm x 30mm | 6024.050.00SC | 6024.050.01SC |
| 6mm | 57mm | 25mm | 10mm x 30mm | 6024.060.00SC | 6024.060.01SC |
| 6.35mm (1/4") | 57mm | 25mm | 10mm x 30mm | 6024.635.00SC | 6024.635.01SC |
| 7mm | 57mm | 25mm | 10mm x 30mm | 6024.070.00SC | 6024.070.01SC |
| 8mm | 57mm | 25mm | 10mm x 30mm | 6024.080.00SC | 6024.080.01SC |
| 10mm | 57mm | 25mm | 10mm x 30mm | 6024.100.00SC | 6024.100.01SC |



70MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|---------------|--------|--------|-------------|---------------|---------------|
| 3mm | 70mm | 35mm | 10mm x 30mm | 6024.030.10SC | 6024.030.11SC |
| 4mm | 70mm | 35mm | 10mm x 30mm | 6024.040.10SC | 6024.040.11SC |
| 5mm | 70mm | 35mm | 10mm x 30mm | 6024.050.10SC | 6024.050.11SC |
| 6mm | 70mm | 35mm | 10mm x 30mm | 6024.060.10SC | 6024.060.11SC |
| 6.35mm (1/4") | 70mm | 35mm | 10mm x 20mm | 6024.635.10SC | 6024.635.11SC |
| 7mm | 70mm | 35mm | 10mm x 20mm | 6024.070.10SC | 6024.070.11SC |
| 8mm (5/16") | 70mm | 35mm | 10mm x 20mm | 6024.080.10SC | 6024.080.11SC |
| 10mm | 70mm | 35mm | 10mm x 20mm | 6024.100.10SC | 6024.100.11SC |

Special sizes are available. Minimum order of ten (10) pieces.

LONG SERIES BRAD POINT BITS—CARBIDE TIPPED

6019

Carbide tipped drill bits for blind holes. 10mm shank with height adjustment set screw.

85MM OVERALL LENGTH

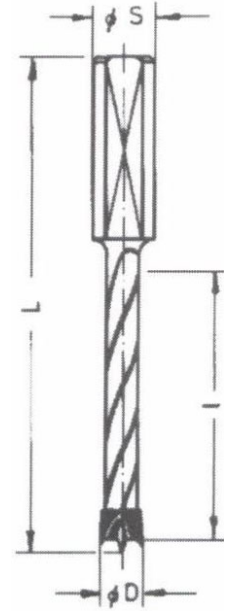
| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|---------------|--------|--------|-------------|-------------|-------------|
| 5mm | 85mm | 45mm | 10mm x 30mm | 6019.050.00 | 6019.050.01 |
| 5.5mm | 85mm | 45mm | 10mm x 30mm | 6019.055.00 | 6019.055.01 |
| 6mm | 85mm | 45mm | 10mm x 30mm | 6019.060.00 | 6019.060.01 |
| 6.35mm (1/4") | 85mm | 45mm | 10mm x 30mm | 6019.635.00 | 6019.625.01 |
| 7mm | 85mm | 45mm | 10mm x 30mm | 6019.070.00 | 6019.070.01 |
| 8mm | 85mm | 45mm | 10mm x 30mm | 6019.080.00 | 6019.080.01 |
| 8.2mm | 85mm | 45mm | 10mm x 30mm | 6019.082.00 | 6019.082.01 |
| 9mm | 85mm | 45mm | 10mm x 30mm | 6019.090.00 | 6019.090.01 |
| 10mm | 85mm | 45mm | 10mm x 30mm | 6019.100.00 | 6019.100.01 |
| 11mm | 85mm | 45mm | 10mm x 30mm | 6019.110.00 | 6019.110.01 |
| 12mm | 85mm | 45mm | 10mm x 30mm | 6019.120.00 | 6019.120.01 |
| 15mm | 85mm | 45mm | 10mm x 30mm | 6019.150.00 | 6019.150.01 |

105MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|-------|--------|--------|-------------|-------------|-------------|
| 5mm | 105mm | 65mm | 10mm x 30mm | 6019.050.10 | 6019.050.11 |
| 5.5mm | 105mm | 65mm | 10mm x 30mm | 6019.055.10 | 6019.055.11 |
| 6mm | 105mm | 65mm | 10mm x 30mm | 6019.060.10 | 6019.060.11 |
| 7mm | 105mm | 65mm | 10mm x 30mm | 6019.070.10 | 6019.070.11 |
| 8mm | 105mm | 65mm | 10mm x 30mm | 6019.080.10 | 6019.080.11 |
| 9mm | 105mm | 65mm | 10mm x 30mm | 6019.090.10 | 6019.090.11 |
| 10mm | 105mm | 65mm | 10mm x 30mm | 6019.100.10 | 6019.100.11 |
| 12mm | 105mm | 65mm | 10mm x 30mm | 6019.120.10 | 6019.120.11 |
| 15mm | 105mm | 65mm | 10mm x 30mm | 6019.150.10 | 6019.150.11 |

120MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|-------|--------|--------|-------------|-------------|-------------|
| 5mm | 120mm | 90mm | 10mm x 20mm | 6019.050.20 | 6019.050.21 |
| 5.5mm | 120mm | 90mm | 10mm x 20mm | 6019.055.20 | 6019.055.21 |
| 6mm | 120mm | 90mm | 10mm x 20mm | 6019.060.20 | 6019.060.21 |
| 7mm | 120mm | 90mm | 10mm x 20mm | 6019.070.20 | 6019.070.21 |
| 8mm | 120mm | 90mm | 10mm x 20mm | 6019.080.20 | 6019.080.21 |
| 9mm | 120mm | 90mm | 10mm x 20mm | 6019.090.20 | 6019.090.21 |
| 10mm | 120mm | 90mm | 10mm x 20mm | 6019.100.20 | 6019.100.21 |
| 12mm | 120mm | 90mm | 10mm x 20mm | 6019.120.20 | 6019.120.21 |
| 15mm | 120mm | 90mm | 10mm x 20mm | 6019.150.20 | 6019.150.21 |



V-POINT DRILLS—CARBIDE TIPPED

6028

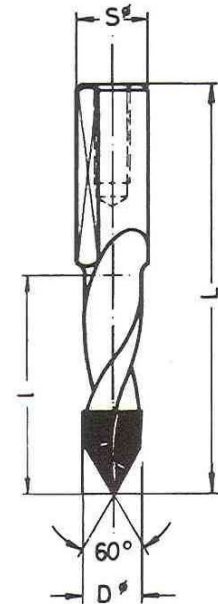
Carbide tipped drill bits for through holes. 10mm shank with height adjustment set screw. Flat landing on shank.

57MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|----------------|--------|--------|-------------|-------------|-------------|
| 4mm | 57mm | 27mm | 10mm x 24mm | 6028.040.20 | 6028.040.21 |
| 4.76mm (3/16") | 57mm | 27mm | 10mm x 24mm | 6028.476.20 | 6028.476.21 |
| 5mm | 57mm | 27mm | 10mm x 24mm | 6028.050.20 | 6028.050.21 |
| 5.1mm | 57mm | 27mm | 10mm x 24mm | 6028.051.20 | 6028.051.21 |
| 5.55mm (7/32") | 57mm | 27mm | 10mm x 24mm | 6028.555.20 | 6028.555.21 |
| 6mm | 57mm | 27mm | 10mm x 24mm | 6028.060.20 | 6028.060.21 |
| 6.35mm (1/4") | 57mm | 27mm | 10mm x 24mm | 6028.635.20 | 6028.635.21 |
| 8mm | 57mm | 27mm | 10mm x 24mm | 6028.080.20 | 6028.080.21 |
| 9.53mm (3/8") | 57mm | 27mm | 10mm x 24mm | 6028.953.20 | 6028.953.21 |
| 11.1mm (7/16") | 57mm | 27mm | 10mm x 24mm | 6028.111.20 | 6028.111.21 |
| 12mm | 57mm | 27mm | 10mm x 24mm | 6028.120.20 | 6028.120.21 |
| 12.7mm (1/2") | 57mm | 27mm | 10mm x 24mm | 6028.127.20 | 6028.127.21 |

70MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|----------------|--------|--------|-------------|-------------|-------------|
| 4mm | 70mm | 35mm | 10mm x 24mm | 6028.040.30 | 6028.040.31 |
| 4.76mm (3/16") | 70mm | 35mm | 10mm x 24mm | 6028.476.30 | 6028.476.31 |
| 5mm | 70mm | 35mm | 10mm x 24mm | 6028.050.30 | 6028.050.31 |
| 5.1mm | 70mm | 35mm | 10mm x 24mm | 6028.051.30 | 6028.051.31 |
| 5.2mm | 70mm | 35mm | 10mm x 24mm | 6028.052.30 | 6028.052.31 |
| 5.5mm | 70mm | 35mm | 10mm x 24mm | 6028.055.30 | 6028.055.31 |
| 6mm | 70mm | 35mm | 10mm x 24mm | 6028.060.30 | 6028.060.31 |
| 6.5mm | 70mm | 35mm | 10mm x 24mm | 6028.065.30 | 6028.065.31 |
| 6.35mm (1/4") | 70mm | 35mm | 10mm x 24mm | 6028.635.30 | 6028.635.31 |
| 7mm | 70mm | 35mm | 10mm x 24mm | 6028.070.30 | 6028.070.31 |
| 7.14mm (9/32") | 70mm | 35mm | 10mm x 24mm | 6028.714.30 | 6028.714.31 |
| 8mm | 70mm | 35mm | 10mm x 24mm | 6028.080.30 | 6028.080.31 |
| 8.2mm | 70mm | 35mm | 10mm x 24mm | 6028.082.30 | 6028.082.31 |
| 8.5mm | 70mm | 35mm | 10mm x 24mm | 6028.085.30 | 6028.085.31 |
| 9mm | 70mm | 35mm | 10mm x 24mm | 6028.090.30 | 6028.090.31 |
| 9.53mm (3/8") | 70mm | 35mm | 10mm x 24mm | 6028.953.30 | 6028.953.31 |
| 10mm | 70mm | 35mm | 10mm x 24mm | 6028.100.30 | 6028.100.31 |
| 10.2mm | 70mm | 35mm | 10mm x 24mm | 6028.102.30 | 6028.102.31 |
| 11.1mm (7/16") | 70mm | 35mm | 10mm x 24mm | 6028.111.30 | 6028.111.31 |
| 12mm | 70mm | 35mm | 10mm x 24mm | 6028.120.30 | 6028.120.31 |
| 12.7mm (1/2") | 70mm | 35mm | 10mm x 24mm | 6028.127.30 | 6028.127.31 |
| 15mm | 70mm | 35mm | 10mm x 24mm | 6028.150.30 | 6028.150.31 |
| 15.8 (5/8") | 70mm | 35mm | 10mm x 24mm | 6028.158.30 | 6028.158.31 |



V-POINT DRILL BITS—SOLID CARBIDE

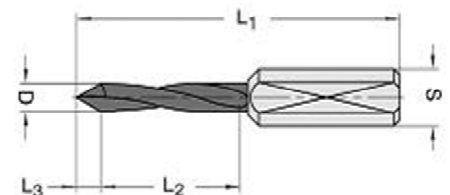
6028

57MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|-----|--------|--------|-------------|---------------|---------------|
| 3mm | 57mm | 27mm | 10mm x 24mm | 6028.030.20SC | 6028.030.21SC |
| 4mm | 57mm | 27mm | 10mm x 24mm | 6028.040.20SC | 6028.040.21SC |
| 5mm | 57mm | 27mm | 10mm x 24mm | 6028.050.20SC | 6028.050.21SC |

70MM OVERALL LENGTH

| D | L1 (L) | L2 (I) | S | Item# (RH) | Item# (LH) |
|-----|--------|--------|-------------|---------------|---------------|
| 3mm | 70mm | 35mm | 10mm x 24mm | 6028.030.30SC | 6028.030.31SC |
| 4mm | 70mm | 35mm | 10mm x 24mm | 6028.040.30SC | 6028.040.31SC |
| 5mm | 70mm | 35mm | 10mm x 24mm | 6028.050.30SC | 6028.050.31SC |



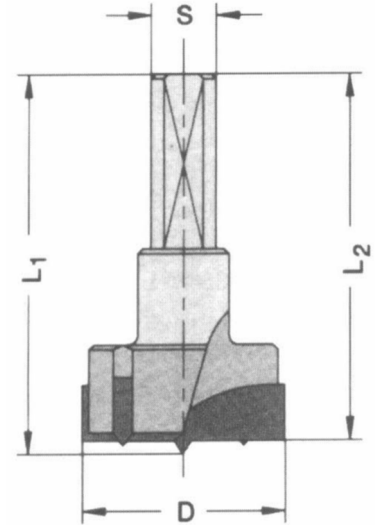
HINGE BORING BITS—CARBIDE TIPPED

6017

Carbide tipped hinge boring bits for hinge hardware. 10mm shank with flat and height adjustment screw. **Maximum RPM: 3,000-8,000.**

57MM OVERALL LENGTH

| CED | OAL | S | Item# (RH) | Item# (LH) |
|--------|------|-------------|-------------|-------------|
| 15mm | 57mm | 10mm x 26mm | 6017.150.00 | 6017.150.01 |
| 16mm | 57mm | 10mm x 26mm | 6017.160.00 | 6017.160.01 |
| 18mm | 57mm | 10mm x 26mm | 6017.180.00 | 6017.180.01 |
| 19mm | 57mm | 10mm x 26mm | 6017.190.00 | 6017.190.01 |
| 19.7mm | 57mm | 10mm x 26mm | 6017.197.00 | 6017.197.01 |
| 20mm | 57mm | 10mm x 26mm | 6017.200.00 | 6017.200.01 |
| 22mm | 57mm | 10mm x 26mm | 6017.220.00 | 6017.220.01 |
| 24mm | 57mm | 10mm x 26mm | 6017.240.00 | 6017.240.01 |
| 25mm | 57mm | 10mm x 26mm | 6017.250.00 | 6017.250.01 |
| 26mm | 57mm | 10mm x 26mm | 6017.260.00 | 6017.260.01 |
| 28mm | 57mm | 10mm x 26mm | 6017.280.00 | 6017.280.01 |
| 30mm | 57mm | 10mm x 26mm | 6017.300.00 | 6017.300.01 |
| 32mm | 57mm | 10mm x 26mm | 6017.320.00 | 6017.320.01 |
| 35mm | 57mm | 10mm x 26mm | 6017.350.00 | 6017.350.01 |
| 38mm | 57mm | 10mm x 26mm | 6017.380.00 | 6017.380.01 |
| 40mm | 57mm | 10mm x 26mm | 6017.400.00 | 6017.400.01 |



70MM OVERALL LENGTH

| CED | OAL | S | Item# (RH) | Item# (LH) |
|--------|------|-------------|-------------|-------------|
| 15mm | 70mm | 10mm x 26mm | 6017.150.10 | 6017.150.11 |
| 16mm | 70mm | 10mm x 26mm | 6017.160.10 | 6017.160.11 |
| 16.5mm | 70mm | 10mm x 26mm | 6017.165.10 | 6017.165.11 |
| 19mm | 70mm | 10mm x 26mm | 6017.190.10 | 6017.190.11 |
| 19.7mm | 70mm | 10mm x 26mm | 6017.197.10 | 6017.197.11 |
| 20mm | 70mm | 10mm x 26mm | 6017.200.10 | 6017.200.11 |
| 22mm | 70mm | 10mm x 26mm | 6017.220.10 | 6017.220.11 |
| 25mm | 70mm | 10mm x 26mm | 6017.250.10 | 6017.250.11 |
| 26mm | 70mm | 10mm x 26mm | 6017.260.10 | 6017.260.11 |
| 30mm | 70mm | 10mm x 26mm | 6017.300.10 | 6017.300.11 |
| 35mm | 70mm | 10mm x 26mm | 6017.350.10 | 6017.350.11 |
| 40mm | 70mm | 10mm x 26mm | 6017.400.10 | 6017.400.11 |

77MM OVERALL LENGTH

| CED | OAL | S | Item# (RH) | Item# (LH) |
|------|------|-------------|-------------|-------------|
| 20mm | 77mm | 10mm x 26mm | 6017.200.40 | 6017.200.41 |
| 25mm | 77mm | 10mm x 26mm | 6017.250.40 | 6017.250.41 |
| 30mm | 77mm | 10mm x 26mm | 6017.300.40 | 6017.300.41 |
| 35mm | 77mm | 10mm x 26mm | 6017.350.40 | 6017.350.41 |

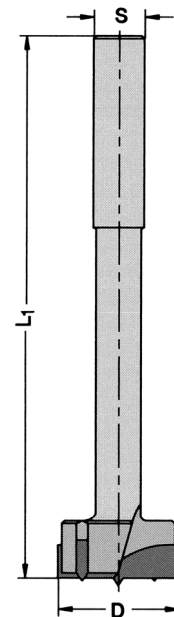
CYLINDER BORING BIT— POST AND BEAM CONSTRUCTION

6014

Extra long cylinder boring bits for post and beam construction. This carbide-tipped boring bit features two (2) flutes, two (2) spurs, and a center-point. Cylindrical shank (no flat), RH rotation. Ideal for both solid wood and wood composite materials.

140MM OVERALL LENGTH

| D | L1 | S | Item# |
|------|-------|--------------|-------------|
| 20mm | 140mm | 13mm x 105mm | 6014.200.13 |
| 22mm | 140mm | 13mm x 105mm | 6014.220.13 |
| 24mm | 140mm | 13mm x 105mm | 6014.240.13 |
| 25mm | 140mm | 13mm x 103mm | 6014.250.13 |
| 28mm | 140mm | 13mm x 103mm | 6014.280.13 |
| 30mm | 140mm | 13mm x 103mm | 6014.300.13 |
| 35mm | 140mm | 16mm x 103mm | 6014.350.13 |
| 40mm | 140mm | 16mm x 103mm | 6014.400.13 |
| 45mm | 140mm | 16mm x 120mm | 6014.450.13 |
| 50mm | 140mm | 16mm x 118mm | 6014.500.13 |



LEITZ QUICK CHANGE ADAPTER SCREW*

39075

| Description | Dimensions | Item# |
|------------------------|------------|-----------------|
| Length Adjusting Screw | M5 x 17mm | 39075-0-05017-R |

*for Weeke



V-POINT BIT—PCD (DIAMOND)

6928

PCD tipped (polycrystalline diamond) V-point bits, steel body with double PCD tip geometry for drilling clean, chip free through-holes in abrasive materials such as wood composite and cement fiber boards etc. Shank with height adjustment screw and flat land. Other sizes available upon request. **Recommended RPM: 4,500-9,000. Feed Rate 0.8m-3.0m/minute.**

| D | L2 | L4 | L1 | Shank | Item# (RH) | Item# (LH) |
|------|------|-------|------|-------------|-------------|-------------|
| 8mm | 35mm | 6.4mm | 70mm | 10mm x 26mm | 6928.080.10 | 6928.080.11 |
| 10mm | 35mm | 8.6mm | 70mm | 10mm x 26mm | 6928.100.10 | 6928.100.11 |
| 12mm | 35mm | 9.5mm | 70mm | 10mm x 26mm | 6928.120.10 | 6928.120.11 |



DOWEL BIT—PCD (DIAMOND)

6924

PCD tipped (polycrystalline diamond) brad point bits, steel body with double PCD tip geometry for drilling clean, chip free blind holes in abrasive materials such as wood composite and cement fiber boards etc. Shank with height adjustment screw and flat land. Other sizes available upon request. **Recommended RPM: 4,500-9,000. Feed Rate: 0.8m-3.0m/minute.**

| D | L2 | L4 | L1 | Shank | Item# (RH) | Item# (LH) |
|------|------|-------|--------|-------------|-------------|-------------|
| 8mm | 27mm | 2.6mm | 57.5mm | 10mm x 26mm | 6924.080.00 | 6924.080.01 |
| 8mm | 35mm | 2.6mm | 70mm | 10mm x 30mm | 6924.080.10 | 6924.080.11 |
| 10mm | 35mm | 3.2mm | 70mm | 10mm x 30mm | 6924.100.10 | 6924.100.11 |
| 12mm | 35mm | 3.9mm | 70mm | 10mm x 30mm | 6924.120.10 | 6924.120.11 |



HINGE BORING BITS—PCD (DIAMOND)

6917

PCD tipped (polycrystalline diamond) hinge boring bits, steel body with two PCD tip clearing wings, two (2) spurs and TCT (carbide) center point for drilling clean, chip free holes in abrasive materials such as wood composites. Shank with height adjustment screw and flat land. Other sizes available upon request. **Recommended RPM: 4,500-9,000. Feed Rate: 0.8m-3.0m/minute.**

| D | L1 | Shank | Item# (RH) | Item# (LH) |
|------|--------|-------------|-------------|-------------|
| 25mm | 57.5mm | 10mm x 26mm | 6917.250.00 | - |
| 35mm | 57.5mm | 10mm x 26mm | 6917.350.00 | - |
| 15mm | 70mm | 10mm x 26mm | 6917.150.10 | 6917.150.11 |
| 20mm | 70mm | 10mm x 26mm | 6917.200.10 | 6917.200.11 |
| 30mm | 70mm | 10mm x 26mm | 6917.300.10 | 6917.300.11 |
| 35mm | 70mm | 10mm x 26mm | 6917.350.10 | 6917.350.11 |

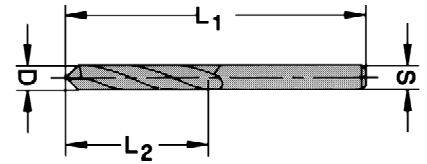


SOLID CARBIDE DRILL BITS

6001

Solid carbide twist drill with parallel shank and center point. For use with drill holder 6003 below.

| D | L1 | L2 | Item# (RH) | Item# (LH) |
|-------|------|------|-------------|-------------|
| 2mm | 49mm | 18mm | 6001.020.00 | 6001.020.01 |
| 2.4mm | 55mm | 22mm | 6001.024.00 | 6001.024.01 |
| 2.5mm | 55mm | 22mm | 6001.025.00 | 6001.025.01 |
| 2.8mm | 55mm | 22mm | 6001.028.00 | 6001.028.01 |
| 3mm | 55mm | 22mm | 6001.030.00 | 6001.030.01 |
| 1/8" | 55mm | 22mm | 6001.032.00 | 6001.032.01 |
| 3.5mm | 55mm | 25mm | 6001.035.00 | 6001.035.01 |

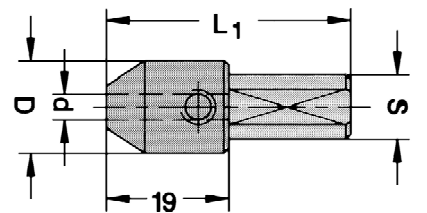


DRILL HOLDER

6003

Holder for solid carbide drills. Shank with flat for use in quick release adapters and reducing chucks. Overall length with drill holder is equivalent to dowel drills of 56/57mm.

| d | L1 | S | Item# |
|-------|------|------|-------------|
| 2mm | 40mm | 10mm | 6003.020.00 |
| 2.4mm | 40mm | 10mm | 6003.024.00 |
| 2.5mm | 40mm | 10mm | 6003.025.00 |
| 2.8mm | 40mm | 10mm | 6003.028.00 |
| 3mm | 40mm | 10mm | 6003.030.00 |
| 1/8" | 40mm | 10mm | 6003.032.00 |
| 3.5mm | 40mm | 10mm | 6003.035.00 |

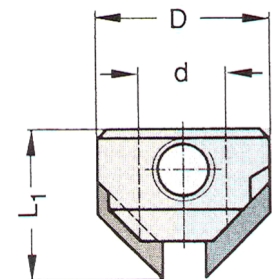


TCT COUNTERSINK

6030/6034

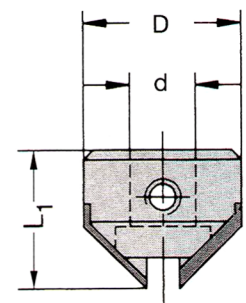
For use with dowel and v-point drills. Countersink clamps on the spiral portion of the drill bit.

| d | D | Item# (RH) | Item# (LH) |
|------|------|-------------|-------------|
| 4mm | 20mm | 6030.040.00 | 6030.040.01 |
| 5mm | 20mm | 6030.050.00 | 6030.050.01 |
| 6mm | 20mm | 6030.060.00 | 6030.060.01 |
| 1/4" | 20mm | 6030.635.00 | 6030.635.01 |
| 7mm | 20mm | 6030.070.00 | 6030.070.01 |
| 8mm | 25mm | 6030.080.00 | 6030.080.01 |
| 9mm | 25mm | 6030.090.00 | 6030.090.01 |
| 10mm | 25mm | 6030.100.00 | 6030.100.01 |
| 12mm | 25mm | 6030.120.00 | 6030.120.01 |



For use with dowel and v-point drills. Countersink clamps on the shank of the drill bit.

| d | D | For Drills | Item# (RH) | Item# (LH) |
|-----------|------|------------|-------------|-------------|
| 5mm-10mm | 20mm | 5mm-10mm | 6034.010.00 | 6034.010.01 |
| 11mm-12mm | 22mm | 11mm-12mm | 6034.020.00 | 6034.020.01 |



QUICK CHANGE ADAPTER

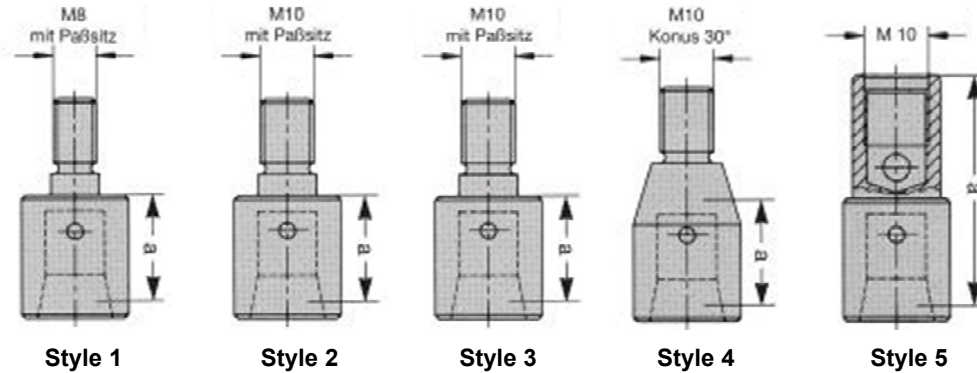
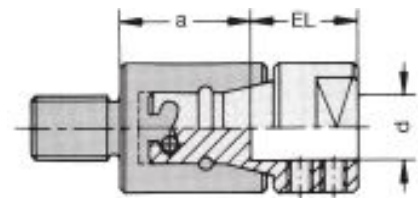
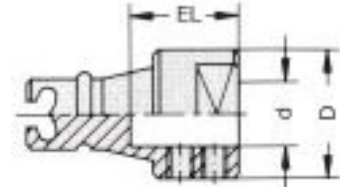
6042/6043

For converting multi-spindle boring machines from using threaded-shank boring bits to standard boring bits with 10mm shanks. Consisting of two parts, the machine adapter and the drill holder offers quick and easy tool changes.

| Drill Holder | Item# |
|-------------------------|-------------|
| Fits all adapters below | 6042.000.10 |

This two-piece design, consisting of machine adapter and drill holder which are both coned for increased concentricity and improved quality of drill holes. Quick release design. Includes two clamping screws for drill bits. This system accepts the standard metric drill bits that have a 10mm shank with a flat land for set screw positioning.

| Machine Adapter | Style | Item# (RH) | Item# (LH) |
|---|-------|-------------|-------------|
| Nottmeyer (new) Breda | 1 | 6043.010.10 | 6043.010.11 |
| Ayen, Holzma, Mayer, Torwegge etc. | 2 | 6043.002.10 | 6043.002.11 |
| Biesse, Morbidelli, Torwegge, Weeke | 3 | 6043.009.10 | 6043.009.11 |
| Alberti, Balestrini, Bilek, Schleicher, Vitap | 4 | 6043.004.10 | 6043.004.11 |
| Scheer | 5 | 6043.100.10 | 6043.100.11 |



QUICK CHANGE ADAPTER

6050



Biesse
6050.003.10 (37mm)
6050.003.30 (30mm)



**Maggi/Griggio/
Masterwood**
6050.012.10



Vitap
6050.011.10



Morbidelli
6050.008.10



Busellato
6050.007.10

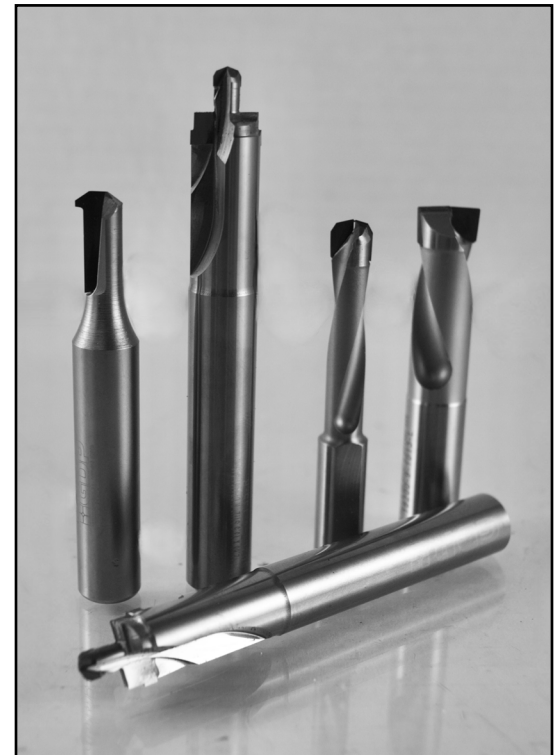
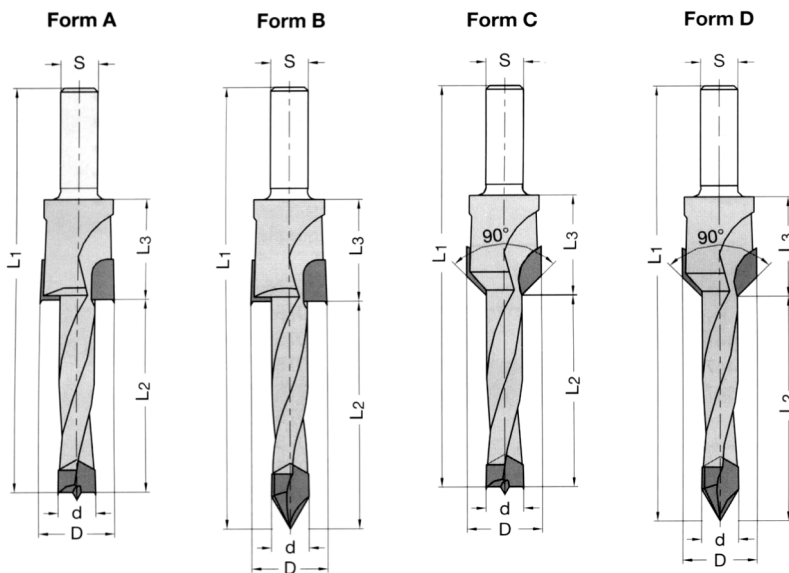


Weeke
6050.006.10

CUSTOM DIAMOND (PCD) AND CARBIDE-TIPPED DRILL, COUNTERBORE/COUNTERSINK BITS

Custom bits for drilling/boring glass and carbon-fiber (FRP/CFRP) reinforced plastics, composite matrix, HPL, honeycomb, fiberglass, S-Glass, Kevlar/Nomex, sandwich panels, and similar composite materials with carbide-tipped custom counterbore and counter-sink bits made to customer specifications.

To request a quotation, simply provide style, and dimensions (D/d, L1, L2, L3 and S). Quantity required with a minimum six (6) pieces each on custom sizes. Please indicate material being machined.



DRILL BIT ADAPTER FOR CNC COLLET

6381

Using a drill bit with a flat land on the shank in a CNC collet can result in runout, wobble, or oval holes as the shank is not clamped evenly. This adapter has a cylindrical 10mm shank (no flat land) that fits snugly into a 10mm collet. The drill bit is then secured into the adapter with set screws.

| d/D | S | Overall Length | Item# |
|-----------|------|----------------|-------------|
| 10mm/19mm | 10mm | 55mm | 6381.250.00 |

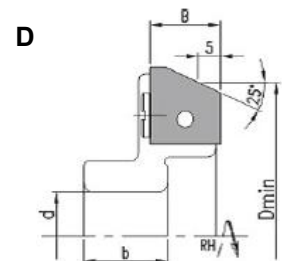
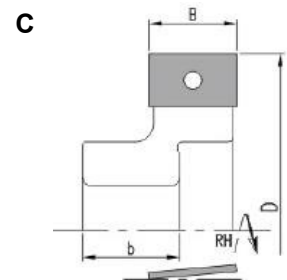
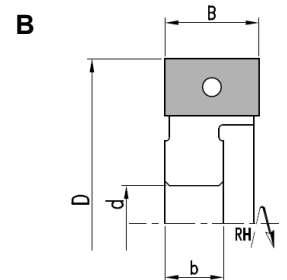
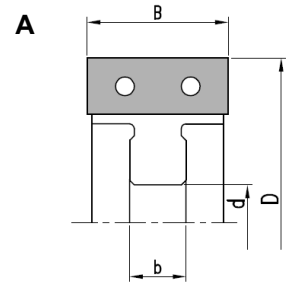


INSERT STRAIGHT TRIMMING CUTTERS

4048

For trimming wood and plastic edgebanding. Replacement inserts and steel body construction designed specifically for the various machines listed below and on the following page.

| D | B/b | d | Z | Style | Rot. | Insert | DKN | Item# |
|------------------|-----------|------|---|-------|------|--------|-------------|-------------|
| Biesse | | | | | | | | |
| 70mm | 20/22mm | 20mm | 6 | C | RH | 5 | 6mm x 2.8mm | 4048.510.03 |
| 70mm | 20/22mm | 20mm | 6 | C | LH | 5 | 6mm x 2.8mm | 4048.520.03 |
| 80mm | 20/22mm | 20mm | 6 | C | RH | 5 | 6mm x 2.8mm | 4048.511.03 |
| 80mm | 20/22mm | 20mm | 6 | C | LH | 5 | 6mm x 2.8mm | 4048.521.03 |
| 80mm | 30/22mm | 20mm | 6 | C | RH | 6 | 6mm x 2.8mm | 4048.512.03 |
| 80mm | 30/22mm | 20mm | 6 | C | LH | 6 | 6mm x 2.8mm | 4048.522.03 |
| 70mm | 16/19mm | 16mm | 6 | D | RH | 4 | 5mm x 2.3mm | 4048.513.03 |
| 70mm | 16/19mm | 16mm | 6 | D | LH | 4 | 5mm x 2.3mm | 4048.523.03 |
| Brandt | | | | | | | | |
| 70mm | 20/12.5mm | 20mm | 4 | B | RH | 5 | 6mm x 3.5mm | 4048.301.03 |
| 70mm | 20/12.5mm | 20mm | 4 | B | LH | 5 | 6mm x 3.5mm | 4048.302.03 |
| 70mm | 20/12.5mm | 20mm | 6 | B | RH | 5 | 6mm x 3.5mm | 4048.303.03 |
| 70mm | 20/12.5mm | 20mm | 6 | B | LH | 5 | 6mm x 3.5mm | 4048.304.03 |
| Fravol | | | | | | | | |
| 70mm | 20/11.5mm | 20mm | 6 | B | RH | 5 | 6mm x 3.5mm | 4048.311.03 |
| 70mm | 20/11.5mm | 20mm | 6 | B | LH | 5 | 6mm x 3.5mm | 4048.310.03 |
| Holz-Her | | | | | | | | |
| 50mm | 12/10mm | 16mm | 2 | A | Both | 1 | 5mm x 2.3mm | 4048.101.02 |
| 50mm | 15/10mm | 16mm | 2 | A | Both | 3 | 5mm x 2.3mm | 4048.102.02 |
| 70mm | 20/11mm | 20mm | 4 | A | Both | 5 | 6mm x 3.5mm | 4048.309.02 |
| Homag/IMA | | | | | | | | |
| 50mm | 12/10mm | 16mm | 2 | A | Both | 1 | 5mm x 2.3mm | 4048.101.02 |
| 50mm | 15/10mm | 16mm | 2 | A | Both | 3 | 5mm x 2.3mm | 4048.102.02 |
| 70mm | 20/10mm | 16mm | 6 | A | Both | 5 | 6mm x 3.5mm | 4048.307.02 |
| 70mm | 20/12.5mm | 16mm | 4 | B | RH | 5 | 5mm x 2.3mm | 4048.101.03 |
| 70mm | 20/12.5mm | 16mm | 4 | B | LH | 5 | 5mm x 2.3mm | 4048.102.03 |
| 70mm | 20/12.5mm | 20mm | 6 | B | RH | 5 | 6mm x 3.5mm | 4048.303.03 |
| 70mm | 20/12.5mm | 20mm | 6 | B | LH | 5 | 6mm x 3.5mm | 4048.304.03 |
| Stefani | | | | | | | | |
| 72mm | 30/12mm | 16mm | 4 | B | RH | 6 | 6mm x 3.5mm | 4048.315.03 |
| 72mm | 30/12mm | 16mm | 4 | B | LH | 6 | 6mm x 3.5mm | 4048.314.03 |
| 75mm | 20/11mm | 16mm | 4 | A | Both | 5 | 6mm x 3.5mm | 4048.401.02 |
| 80mm | 20/11mm | 16mm | 4 | A | Both | 5 | 5mm x 2.3mm | 4048.503.02 |
| 80mm | 30/11mm | 16mm | 4 | A | Both | 6 | 5mm x 2.3mm | 4048.504.02 |



INSERT STRAIGHT TRIMMING CUTTERS continued

4048

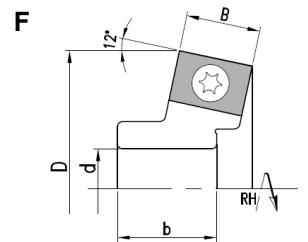
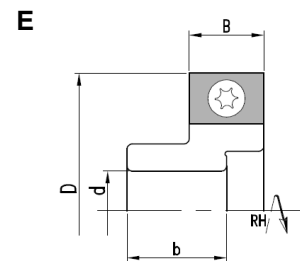
| D | B/b | d | Z | Style | Rot. | Insert | DKN | Item# |
|------------|-----------|------|---|-------|------|--------|-------------|-------------|
| SCM | | | | | | | | |
| 48mm | 14.6/20mm | 16mm | 2 | E | RH | 2 | 5mm x 2.3mm | 4048.400.03 |
| 48mm | 14.6/20mm | 16mm | 2 | E | LH | 2 | 5mm x 2.3mm | 4048.401.03 |
| 55.5mm | 14.6/20mm | 16mm | 2 | F | RH | 2 | 5mm x 2.3mm | 4048.410.03 |
| 55.5mm | 14.6/20mm | 16mm | 2 | F | LH | 2 | 5mm x 2.3mm | 4048.411.03 |
| 72mm | 30/12mm | 16mm | 4 | B | RH | 6 | 6mm x 3.5mm | 4048.315.03 |
| 72mm | 30/12mm | 16mm | 4 | B | LH | 6 | 6mm x 3.5mm | 4048.314.03 |



REPLACEMENT INSERTS

| Dimensions | Insert | Item# |
|----------------------|--------|-------------|
| 12mm x 12mm x 1.5mm | 1 | 4200.012.00 |
| 14.6mm x 9mm x 1.5mm | 2 | 4200.146.09 |
| 15mm x 12mm x 1.5mm | 3 | 4200.015.00 |
| 20mm x 12mm x 1.5mm | 5 | 4200.020.00 |
| 30mm x 12mm x 1.5mm | 6 | 4200.030.00 |

Please refer to the corresponding Insert designation in the preceding tables to identify the correct insert for respective cutters.



INSERT STRAIGHT TRIMMING CUTTERS

4049

Straight cutter with four-sided carbide inserts.

| D | B/b | d | Z | Item# (RH) | Item# (LH) |
|------------------|-----------|--------|---|-------------|-------------|
| Homag/IMA | | | | | |
| 70mm | 14.3/23mm | HSK25R | 4 | 4049.101.99 | 4049.102.99 |

Replacement Inserts: Item# 4200.143.14



Straight cutter with shear, uses two-sided carbide inserts.

| D | B/b | d | Z | Item# (RH) | Item# (LH) |
|------------------|------|--------|---|-------------|-------------|
| Homag/IMA | | | | | |
| 70mm | 24mm | HSK25R | 4 | 4049.101.98 | 4049.102.98 |

Replacement Inserts: Item# 4200.025.01



(PCD) DIAMOND STRAIGHT TRIMMER

4949

For trimming wood and plastic edgebanding. PCD (Diamond) tipped with steel body construction specifically designed for the various machines listed below. See the following page for cutter styles.

STYLE A

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|---------|--------|---|-------|-----------|-------------|-------------|
| 70mm | 7/23mm | HSK25R | 4 | - | Homag/IMA | 4949.070.18 | 4949.070.08 |
| 70mm | 7/23mm | HSK25R | 6 | - | Homag/IMA | 4949.070.28 | 4949.070.38 |
| 70mm | 15/23mm | HSK25R | 4 | - | Homag/IMA | 4949.070.05 | 4949.070.15 |
| 70mm | 15/23mm | HSK25R | 6 | - | Homag/IMA | 4949.070.25 | 4949.070.35 |

STYLE B

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|--------|-----|-------|---|-------|---------|-------------|-------------|
| 65.1mm | | HSK32 | 4 | 20° | Homag | 4949.065.20 | 4949.165.20 |
| 70mm | | HSK32 | 4 | 45° | Homag | 4949.070.45 | 4949.171.45 |
| 65.1mm | | HSK32 | 6 | 20° | Homag | 4949.065.21 | 4949.165.21 |
| 70mm | | HSK32 | 6 | 45° | Homag | 4949.070.46 | 4949.071.46 |

STYLE C

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|--------|-------|---|-------|-----------|-------------|-------------|
| 70mm | 13.5mm | 16dkn | 4 | - | OTT | 4949.070.13 | 4949.071.13 |
| 70mm | 10mm | 20dkn | 4 | - | Homag/IMA | 4949.070.10 | 4949.071.10 |
| 70mm | 10mm | 20dkn | 6 | - | SCM-IDM | 4949.072.10 | 4949.073.10 |

STYLE D

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|------|-------|---|-------|---------|-------------|-------------|
| 75mm | 30mm | 16dkn | 4 | - | SCM | 4949.075.30 | 4949.175.30 |

STYLE E

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|-----|--------|---|-------|-----------|-------------|-------------|
| 75mm | 7mm | HSK25R | 4 | 20° | Homag/IMA | 4949.175.97 | 4949.176.97 |

STYLE F

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|-----|--------|---|-------------|-----------|-------------|-------------|
| 75mm | 8mm | HSK25R | 4 | 90 Postform | Homag/IMA | 4949.275.97 | 4949.276.97 |

STYLE G

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|------|-------|---|-------|----------|-------------|-------------|
| 70mm | 18mm | 20dkn | 4 | - | Holz-Her | 4949.070.18 | 4949.071.18 |



(PCD) DIAMOND STRAIGHT TRIMMER continued

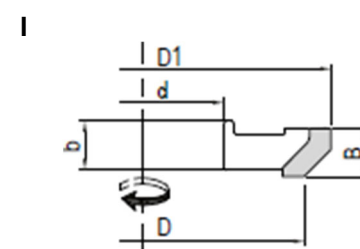
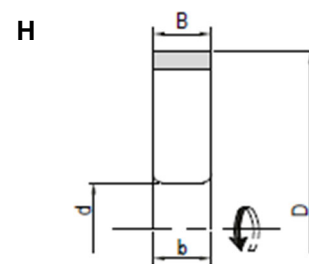
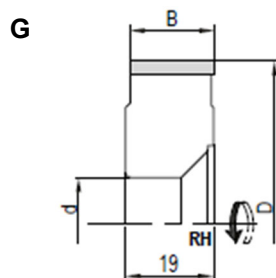
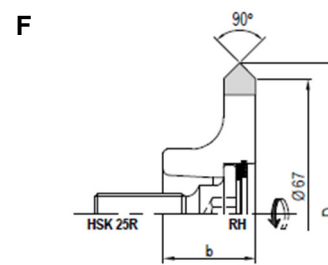
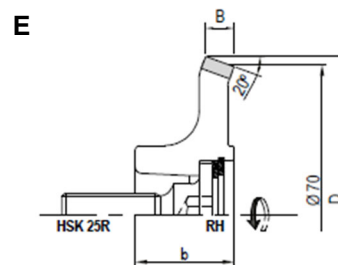
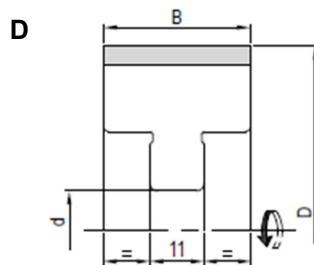
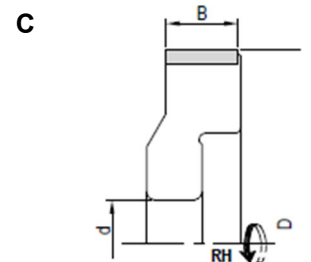
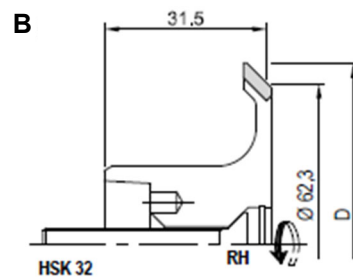
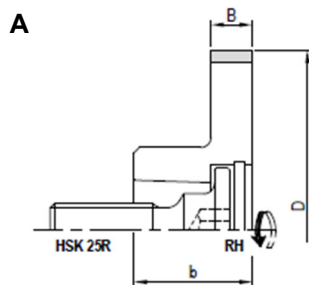
4949

STYLE H

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|------|-------|---|-------|-------------------------|-------------|-------------|
| 70mm | 10mm | 16dkn | 4 | - | Brandt/Homag/ Biesse | 4949.074.10 | 4949.075.10 |
| 70mm | 10mm | 16dkn | 6 | - | Brandt/Homag/ Biesse | 4949.076.10 | 4949.077.10 |

STYLE I

| D | B/b | d | Z | Angle | Machine | Item# (RH) | Item# (LH) |
|------|-----|------|---|-------|------------|-------------|-------------|
| 70mm | 9mm | 30mm | 6 | - | IMA (Bima) | 4949.070.09 | 4949.071.09 |



RADIUS INSERT TRIMMING CUTTERS

4047

For trimming wood and plastic edgebanding. Solid carbide inserts with steel body construction specifically dedicated for the various machines listed below.

STYLE A

| D | D1 | B/b | d | DKN | R | Z | Item# |
|-----------------|------|---------|------|-------------|-----|---|-------------|
| Homag | | | | | | | |
| 73mm | 61mm | 16/11mm | 16mm | 5mm x 2.3mm | 2mm | 3 | 4047.102.56 |
| 73mm | 61mm | 16/11mm | 16mm | 5mm x 2.3mm | 3mm | 3 | 4047.103.56 |
| Holz-Her | | | | | | | |
| 73mm | 61mm | 16/11mm | 20mm | 6mm x 3.5mm | 2mm | 3 | 4047.202.56 |
| 73mm | 61mm | 16/11mm | 20mm | 6mm x 3.5mm | 3mm | 3 | 4047.203.56 |
| IMA | | | | | | | |
| 82mm | 70mm | 16/11mm | 20mm | 6mm x 3.5mm | 2mm | 4 | 4047.302.56 |
| 82mm | 70mm | 16/11mm | 20mm | 6mm x 3.5mm | 3mm | 4 | 4047.303.56 |

Replacement Inserts: Item# 765.101 (16mm x 17.5mm x 2mm, R2)
Item# 765.102 (16mm x 17.5mm x 2mm, R3)



STYLE B

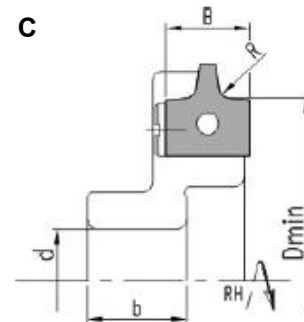
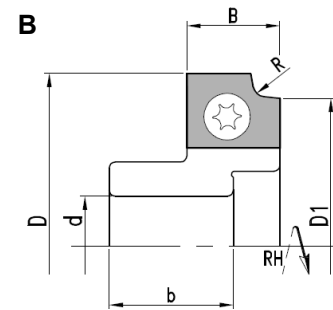
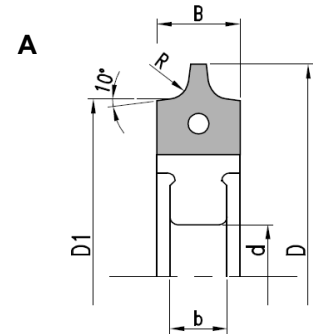
| D | D1 | B/b | d | DKN | R | Z | Item# (RH) | Item# (LH) |
|--------------------|--------|---------|------|-------------|-------|---|-------------|-------------|
| SCM /Cehisa | | | | | | | | |
| 55.5mm | 47.5mm | 15/20mm | 16mm | 5mm x 2.3mm | 1mm | 2 | 4047.200.57 | 4047.210.57 |
| 55.5mm | 47.5mm | 15/20mm | 16mm | 5mm x 2.3mm | 1.5mm | 2 | 4047.201.57 | 4047.211.57 |
| 55.5mm | 47.5mm | 15/20mm | 16mm | 5mm x 2.3mm | 2mm | 2 | 4047.202.57 | 4047.212.57 |
| 55.5mm | 47.5mm | 15/20mm | 16mm | 5mm x 2.3mm | 2.5mm | 2 | 4047.203.57 | 4047.213.57 |
| 55.5mm | 47.5mm | 15/20mm | 16mm | 5mm x 2.3mm | 3mm | 2 | 4047.204.57 | 4047.214.57 |

Replacement Inserts: Item# 765.250LH/765.260RH (15mm x 12mm x 1.5mm, R1)
Item# 765.251LH/765.261RH (15mm x 12mm x 1.5mm, R1.5)
Item# 765.252LH/765.262RH (15mm x 12mm x 1.5mm, R2)
Item# 765.253LH/765.263RH (15mm x 12mm x 1.5mm, R2.5)
Item# 765.254LH/765.264RH (15mm x 12mm x 1.5mm, R3)

STYLE C

| D | D1 | B/b | d | DKN | R | Z | Item# (RH) | Item# (LH) |
|---------------|------|---------|------|-------------|-----|---|-------------|-------------|
| Biesse | | | | | | | | |
| 82.8mm | 70mm | 16/19mm | 16mm | 5mm x 2.3mm | 2mm | 6 | 4047.302.57 | 4047.303.57 |
| 82.8mm | 70mm | 16/19mm | 16mm | 5mm x 2.3mm | 3mm | 6 | 4047.304.57 | 4047.305.57 |

Replacement Inserts: Item# 3401E0201 (16mm x 17mm x 2mm, R2)
Item# 3401E0202 (16mm x 17mm x 2mm, R3)



CARBIDE TIPPED RADIUS TRIMMER

4950

For trimming and adding specific radius on wood and plastic edgebanding. Carbide tipped with steel body construction specifically dedicated for the various machines listed below. **Tool version STYLE A in two (2) piece design with mounting bolt holes specifically for the IMA (Bima) edgebander.**

STYLE A

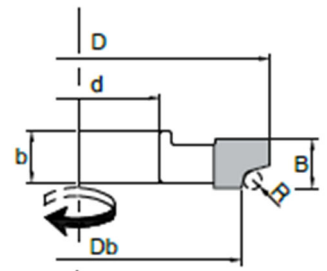
| R | D | Db | B | b | d | Z | Item# RH | Item# LH |
|-------------------|------|--------|-----|-------|------|---|-------------|-------------|
| IMA (Bima) | | | | | | | | |
| 2 | 70mm | 60.5mm | 6mm | 6mm | 30mm | 6 | 4950.200.30 | 4950.100.30 |
| 2 | 70mm | 60.5mm | 9mm | 9.5mm | 30mm | 6 | 4950.201.30 | 4950.101.30 |
| 3 | 70mm | 60.5mm | 9mm | 9mm | 30mm | 6 | 4950.202.30 | 4950.102.30 |

STYLE B

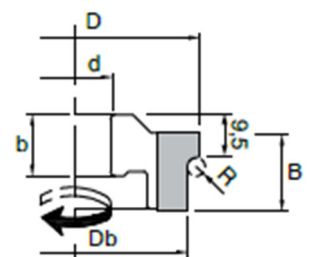
| R | D | Db | B | b | d | Z | Item# RH | Item# LH |
|------------|--------|------|------|--------|-------|---|-------------|-------------|
| SCM | | | | | | | | |
| 2 | 55.3mm | 50mm | 17mm | 13.5mm | 16dkn | 3 | 4950.301.16 | 4950.401.16 |
| 3 | 55.5mm | 50mm | 17mm | 13.5mm | 16dkn | 3 | 4950.302.16 | 4950.402.16 |



A



B



(PCD) DIAMOND RADIUS TRIMMER

4949

For trimming and adding specific radius on wood and plastic edgebanding. PCD (Diamond) tipped with steel body construction specifically dedicated for the various machines listed below. See the following page for cutter styles.



STYLE A

| R | D | b | d | Z | Machine | Item# RH | Item# LH |
|-----|------|------|--------|---|-----------|-------------|-------------|
| 1mm | 80mm | 23mm | HSK25R | 4 | Homag/IMA | 4949.101.97 | 4949.001.97 |
| 2mm | 80mm | 23mm | HSK25R | 4 | Homag/IMA | 4949.102.97 | 4949.002.97 |
| 2mm | 80mm | 23mm | HSK25R | 6 | Homag/IMA | 4949.202.97 | 4949.302.97 |
| 3mm | 80mm | 23mm | HSK25R | 4 | Homag/IMA | 4949.103.97 | 4949.003.97 |
| 3mm | 80mm | 23mm | HSK25R | 6 | Homag/IMA | 4949.203.97 | 4949.303.97 |

STYLE B

| R | D | d | Z | Machine | Item# RH | Item# LH |
|---|------|-------|---|-----------|-------------|-------------|
| 1 | 75mm | HSK32 | 4 | Homag/IMA | 4949.101.96 | 4949.001.96 |
| 1 | 75mm | HSK32 | 6 | Homag/IMA | 4949.201.96 | 4949.301.96 |
| 2 | 75mm | HSK32 | 4 | Homag/IMA | 4949.102.96 | 4949.002.96 |
| 2 | 75mm | HSK32 | 6 | Homag/IMA | 4949.202.96 | 4949.302.96 |
| 3 | 75mm | HSK32 | 4 | Homag/IMA | 4949.103.96 | 4949.003.96 |
| 3 | 75mm | HSK32 | 6 | Homag/IMA | 4949.203.96 | 4949.303.96 |

STYLE C

| R | D | Db | d | Z | Machine | Item# RH | Item# LH |
|-----|------|------|-------|---|----------|-------------|-------------|
| 2mm | 57mm | 50mm | 16dkn | 2 | Holz-Her | 4949.102.16 | 4949.002.16 |
| 3mm | 57mm | 50mm | 16dkn | 2 | Holz-Her | 4949.103.16 | 4949.003.16 |

STYLE D

| R | D | Db | d | Z | Machine | Item# RH | Item# LH |
|-----|------|------|-------|---|---------|-------------|-------------|
| 1mm | 57mm | 50mm | 16dkn | 3 | Homag | 4949.201.19 | 4949.301.19 |
| 2mm | 57mm | 50mm | 16dkn | 3 | Homag | 4949.202.19 | 4949.302.19 |
| 3mm | 57mm | 50mm | 16dkn | 3 | Homag | 4949.203.19 | 4949.303.19 |

STYLE E

| R | D | Db | d | Z | Machine | Item# RH | Item# LH |
|-----|------|------|-------|---|---------|-------------|-------------|
| 1mm | 69mm | 61mm | 16dkn | 3 | OTT | 4949.101.69 | 4949.001.69 |
| 2mm | 69mm | 61mm | 16dkn | 3 | OTT | 4949.102.69 | 4949.002.69 |

STYLE F

| R | D | Db | d | Z | Machine | Item# RH | Item# LH |
|-----|------|------|-------|---|---------|-------------|-------------|
| 1mm | 70mm | 60mm | 16dkn | 4 | SCM/IDM | 4949.810.16 | 4949.910.16 |
| 2mm | 70mm | 60mm | 16dkn | 4 | SCM/IDM | 4949.820.16 | 4949.920.16 |
| 3mm | 70mm | 60mm | 16dkn | 4 | SCM/IDM | 4949.830.16 | 4949.930.16 |

STYLE G

| R | D | Db | d | Z | Machine | Item# RH | Item# LH |
|-------|------|------|-------|---|---------|-------------|-------------|
| 1.5mm | 68mm | 60mm | 16dkn | 6 | Biesse | 4949.115.16 | 4949.015.16 |
| 2mm | 68mm | 60mm | 16dkn | 6 | Biesse | 4949.120.16 | 4949.020.16 |
| 3mm | 68mm | 60mm | 16dkn | 6 | Biesse | 4949.130.16 | 4949.030.16 |
| 1.5mm | 68mm | 60mm | 20dkn | 6 | Biesse | 4949.115.20 | 4949.015.20 |
| 2mm | 68mm | 60mm | 20dkn | 6 | Biesse | 4949.120.20 | 4949.020.20 |
| 3mm | 68mm | 60mm | 20dkn | 6 | Biesse | 4949.130.20 | 4949.030.20 |

(PCD) DIAMOND RADIUS TRIMMER

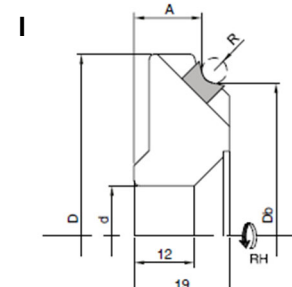
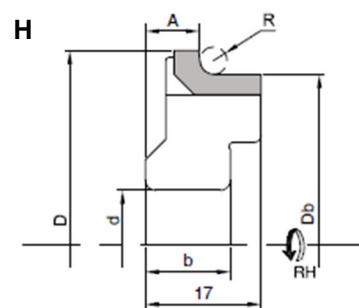
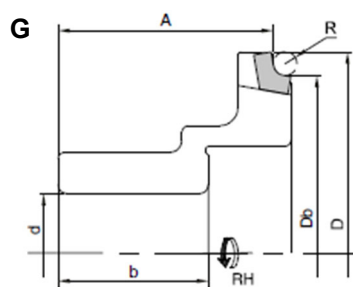
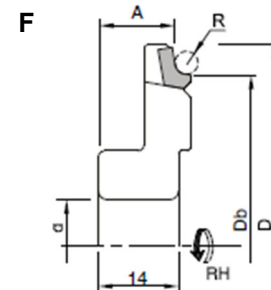
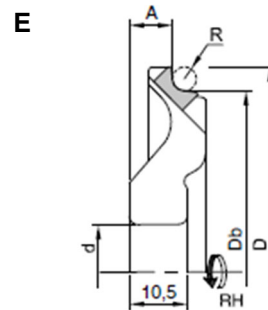
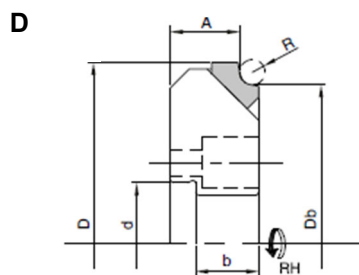
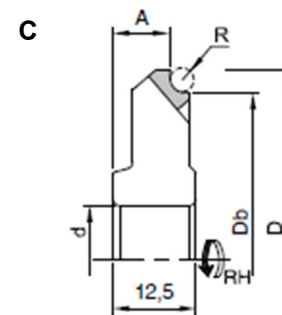
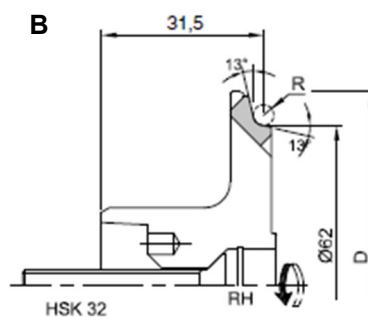
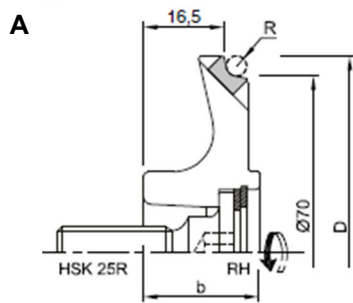
4949

STYLE H

| R | D | Db | d | Z | Machine | Item# RH | Item# LH |
|-----|------|------|-------|---|----------|-------------|-------------|
| 2mm | 57mm | 50mm | 16dkn | 2 | Holz-Her | 4949.104.16 | 4949.004.16 |
| 3mm | 57mm | 50mm | 16dkn | 2 | Holz-Her | 4949.105.16 | 4949.005.16 |

STYLE I

| R | D | Db | d | Z | Machine | Item# RH | Item# LH |
|-------|------|------|-------|---|----------|-------------|-------------|
| 1mm | 72mm | 61mm | 20dkn | 4 | Holz-Her | 4949.101.20 | 4949.001.20 |
| 2mm | 72mm | 61mm | 20dkn | 4 | Holz-Her | 4949.102.20 | 4949.002.20 |
| 2.5mm | 72mm | 61mm | 20dkn | 4 | Holz-Her | 4949.125.20 | 4949.025.20 |
| 3mm | 72mm | 61mm | 20dkn | 4 | Holz-Her | 4949.103.20 | 4949.003.20 |



MULTI RADIUS (PCD) DIAMOND TRIMMER

4949

For trimming and adding specific radius on wood and plastic edgebanding. PCD (Diamond) tipped with steel body construction specifically dedicated for the various machines listed below.

STYLE A

| R | D | B | d | Z | Machine | Item# RH | Item# LH |
|-------------|------|---|--------|---|-----------|-------------|-------------|
| 2mm/3mm/20° | 85mm | | HSK25R | 4 | Homag/IMA | 4949.104.97 | 4949.004.97 |

STYLE B

| R | D | B | d | Z | Machine | Item# RH | Item# LH |
|---------------|------|---|--------|---|---------|-------------|-------------|
| 1mm/1.5mm/2mm | 81mm | | HSK25R | 4 | Homag | 4949.105.97 | 4949.005.97 |

STYLE C

| R | D | B | d | Z | Machine | Item# RH | Item# LH |
|---------------|------|---|--------|---|---------|-------------|-------------|
| 1mm/1.5mm/2mm | 74mm | | HSK25R | 4 | IMA | 4949.304.97 | 4949.204.97 |
| 1mm/1.5mm/2mm | 74mm | | HSK25R | 6 | IMA | 4949.306.97 | 4949.206.97 |

STYLE D

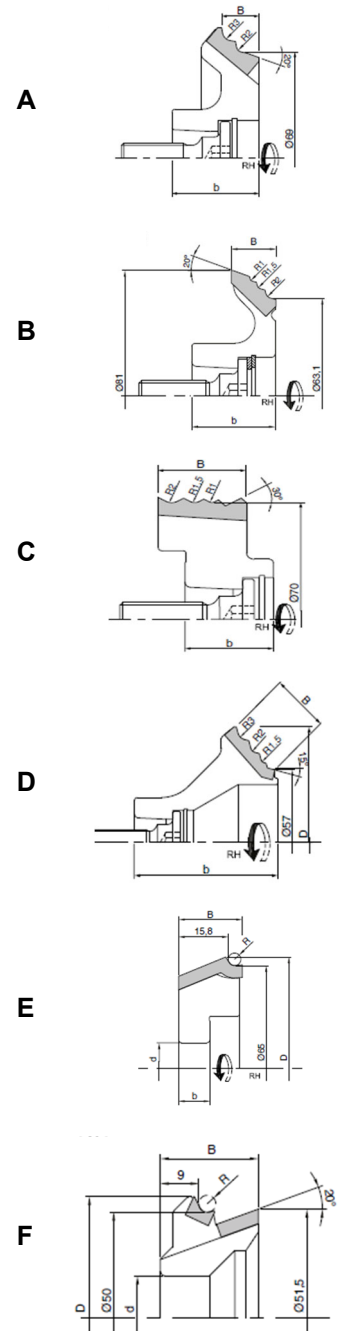
| R | D | B | d | Z | Machine | Item# RH | Item# LH |
|---------------|------|---|--------|---|---------|-------------|-------------|
| 1.5mm/2mm/3mm | 90mm | | HSK25R | 6 | IMA | 4949.106.97 | 4949.006.97 |

STYLE E

| R | D | B | d | Z | Machine | Item# RH | Item# LH |
|---------|--------|--------|-------|---|---------|-------------|-------------|
| 2mm/22° | 70.5mm | 20.3mm | 16dkn | 4 | Brandt | 4949.107.16 | 4949.007.16 |

STYLE F

| R | D | B | d | Z | Machine | Item# RH | Item# LH |
|---------|--------|------|-------|-----|----------|-------------|-------------|
| 2mm/20° | 57.3mm | 23mm | 20dkn | 2+2 | Holz-Her | 4949.104.20 | 4949.004.20 |
| 3mm/20° | 57.3mm | 23mm | 20dkn | 2+2 | Holz-Her | 4949.105.20 | 4949.005.20 |



(PCD) DIAMOND PREMILL CUTTERS

| D | Width | Bore | Keyway | Wings | Item# (RH) | Item# (LH) |
|-------------------|-------------|------|---------------|---------|----------------|----------------|
| Biesse | | | | | | |
| 80mm | 48/25mm | 20mm | 6.5mm x 3.5mm | 2+2 | 7809.148.20 | 7809.048.20 |
| 80mm | 65/53mm | 30mm | 8mm x 3.3mm | 3+3 | 3401E0225 | 3401E0225 |
| 80mm | 65/53mm | 30mm | 8mm x 3.3mm | 2+2 | 3401A0412 | 3401A0412 |
| 80mm | 75/53mm | 30mm | 8mm x 3.3mm | 3+3 | 3401E0224 | 3401E0224 |
| 100mm | 30/75mm | 30mm | 8mm x 3.3mm | 4+4 | 3401E0131 | 3401E0131 |
| 100mm | 45/75mm | 30mm | 8mm x 3.3mm | 4+4 | 3401E0148 | 3401E0148 |
| 100mm | 65/75mm | 30mm | 8mm x 3.3mm | 3+3 | 3401E0136 | 3401E0136 |
| 100mm | 70mm | 30mm | 8mm x 3.3mm | 3+3 | 3401E0128 | 3401E0128 |
| 125mm | 42/47mm | 30mm | 8mm x 3mm | 3+3 | 3401N0226 | 3401N0226 |
| 125mm | 63mm | 30mm | 8mm x 3mm | 3+3 | 3401N0227 | 3401N0227 |
| 125mm | 64/49mm | 30mm | 8mm x 3.2mm | 3+3 | CSEN350087 | CSEN350087 |
| SCM | | | | | | |
| 50mm | 59mm | 16mm | | 3+3 | 0533720822G | 0533720822G |
| 80mm | 27-52mm | 30mm | | 3+3+3+3 | 99-003061-2488 | 99-003061-2488 |
| 80mm | 65/67mm | 30mm | 8mm x 3mm | 3+3 | 0756021096C | 0756021096C |
| 100mm | 49mm | 30mm | | 3+3 | 99-003062-2488 | 99-003062-2488 |
| 100mm | 49mm | 30mm | | 2+2 | 0777160010D | 0777160009C |
| 100mm | 64/40.6mm | 30mm | 8mm x 3mm | 3+3 | 0777160001E | 0777160001E |
| Cehisa | | | | | | |
| 100mm | 50/25mm | 20mm | 6mm x 3mm | 2 | 7809.100.150 | 7809.100.050 |
| Brandt—IMA | | | | | | |
| 100mm | 34/34mm | 30mm | 8mm x 3mm | 3+3 | 7809.100.134 | 7809.100.034 |
| 100mm | 44.5/40.6mm | 30mm | 8mm x 3mm | 3+3 | 7809.100.143 | 7809.100.043 |
| 100mm | 63mm | 30mm | 8mm x 3mm | 3+3 | 7809.100.364 | 7809.100.264 |
| IMA | | | | | | |
| 125mm | 34/34mm | 30mm | 8mm x 3mm | 3(x3) | 7809.125.134 | 7809.125.034 |
| 125mm | 43/42mm | 30mm | 8mm x 3mm | 3(x4) | 7809.125.143 | 7809.125.043 |
| 125mm | 63/42mm | 30mm | 8mm x 3mm | 3(x6) | 7809.125.163 | 7809.125.063 |
| Griggio | | | | | | |
| 80mm | 65/25mm | 20mm | 6.5mm x 3.5mm | 2+2 | 7809.080.465 | 7809.080.365 |
| Holz-Her | | | | | | |
| 70mm | 48mm | 30mm | 8mm x 3mm | 2+2 | 7809.070.148 | 7809.070.048 |
| 70mm | 54/31mm | 30mm | 8mm x 3mm | 2+2 | 7809.070.154 | 7809.070.054 |
| 70mm | 64/39mm | 30mm | 8mm x 3mm | 2+2 | 7809.070.164 | 7809.070.064 |
| 100mm | 48/25mm | 30mm | 8mm x 3mm | 2+2 | 7809.100.148 | 7809.100.048 |
| 100mm | 63/25mm | 30mm | 8mm x 3mm | 3+3 | 7809.100.163 | 7809.100.063 |
| Homag | | | | | | |
| 125mm | 34/36mm | 30mm | 8mm x 3mm | 3(x2) | 7809.125.234 | 7809.125.234 |
| 125mm | 63/40mm | 30mm | 8mm x 3mm | 3(x6) | 7809.125.263 | 7809.125.263 |
| 180mm | 43/58.5mm | 35mm | 10mm x 3.3mm | 4(x4) | 7809.180.143 | 7809.180.043 |
| 180mm | 63/58.5mm | 35mm | 10mm x 3.3mm | 4(x4) | 7809.180.163 | 7809.180.063 |



**WE SHARPEN
ALL DIAMOND
TOOLING**

**FAST
TURNAROUND
GUARANTEED**

INSERT (PCD) DIAMOND PREMILL CUTTERS

4893

Edgebander premill cutter with replaceable, resharpenable diamond (PCD) insert tips. Tool body is aluminum construction. Other sizes are available on request.

| D | Width | Bore | Keyway | Wings | Machine | Item# (RH) |
|-------|-------|------|-----------|-------|--------------------|-------------|
| 80mm | 64mm | 30mm | 8mm x 3mm | 3+3 | Biesse | 4893.080.64 |
| 100mm | 48mm | 30mm | 8mm x 3mm | 3+3 | IMA/Brandt/Stefani | 4893.100.48 |
| 125mm | 34mm | 30mm | 8mm x 3mm | 3+3 | Homag | 4893.125.34 |
| 125mm | 64mm | 30mm | 8mm x 3mm | 3+3 | Homag | 4893.125.64 |



BIESSE RADIUS INSERTS

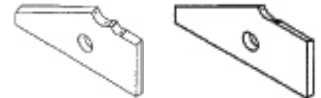
| Width | Height | Thickness | R | Style | Item# (RH) | Item# (LH) |
|----------------|---------|-----------|---------------|-------|------------|------------|
| Style B | | | | | | |
| 25mm | 19.6mm | 2mm | 1.5/2/3 | B | 3402N0036 | 3402N0035 |
| Style C | | | | | | |
| 35mm | 18mm | 2mm | 1/1.5 | C | 3402N0159 | 3402N0160 |
| 35mm | 18mm | 2mm | 2/3 | C | 3402N0167 | 3402N0168 |
| 35mm | 16.9mm | 2mm | 1.5/3 | C | CSEN700030 | CSEN700029 |
| 35mm | 16.9mm | 2mm | 2/3 | C | CSEN700031 | CSEN700032 |
| 35mm | 16.9mm | 2mm | 2/3 | C | 3402A0099 | 3402A0100 |
| 40mm | 17mm | 2mm | 2/3 | C | 3402E0018 | 3402E0019 |
| 40mm | 17mm | 2mm | 2 | C | 3402N0140 | 3402N0143 |
| 40mm | 17mm | 2mm | 3 | C | 3402N0139 | 3402N0142 |
| Style D | | | | | | |
| 20mm | 8mm | 1.5mm | 2 | D | 3401E0041 | 3401E0041 |
| 20mm | 8mm | 1.5mm | 3 | D | 3401E0020 | 3401E0020 |
| 20mm | 10mm | 2mm | 3 | D | 3401E0020 | 3401E0020 |
| 20mm | 16.2mm | 2mm | 2 | D | 3402N0125 | 3401N0125 |
| 16mm | 16.5mm | 2mm | 1 | D | 3402A0087 | 3402A0087 |
| 15.92mm | 17.29mm | 2mm | 2 | D | 3401E0011 | 3401E0011 |
| 16mm | 16.5mm | 2mm | 2 | D | 3402A0084 | 3402A0084 |
| 16mm | 17mm | 2mm | 2 | D | 3401E0201 | 3401E0201 |
| 15.92mm | 17.29mm | 2mm | 3 | D | 3401E0012 | 3401E0012 |
| 16mm | 16.5mm | 2mm | 3 | D | 3402A0085 | 3402A0085 |
| 16mm | 17.5mm | 2mm | 3 | D | 3402N0002 | 3402N0002 |
| 16mm | 17mm | 2mm | 3 | D | 3401E0202 | 3401E0202 |
| Style F | | | | | | |
| 22.86mm | 22.86mm | 2.5mm | Triangle | F | 3401E0117 | |
| Style G | | | | | | |
| 12.7mm | 12.7mm | 3.18mm | 1 | G | 3402N0056 | 3402N0056 |
| 12.7mm | 12.7mm | 3.18mm | 1.5 | G | 3402N0055 | 3402N0055 |
| 12.7mm | 12.7mm | 3.18mm | 1.5 | G | 3402E0017 | 3402E0017 |
| 12.7mm | 12.7mm | 3.18mm | 1.5/1.5 | G | 3402E0008 | 3402E0008 |
| 12.7mm | 12.7mm | 3.18mm | 2 | G | 3402E0016 | 3402E0016 |
| 12.7mm | 12.7mm | 3.18mm | 2 | G | 3402N0054 | 3402N0054 |
| 12.7mm | 12.7mm | 3.18mm | 2/2 | G | 3402E0003 | 3402E0003 |
| 12.7mm | 12.7mm | 3.18mm | 3 | G | 3402E0004 | 3402E0004 |
| 12.7mm | 12.7mm | 3.18mm | 3 | G | 3402N0053 | 3402N0053 |
| 12.7mm | 12.7mm | 3.18mm | 25 deg | G | 3402N0097 | 3402N0097 |
| 14.13mm | 11mm | 3mm | 1 | G | 3402A0124 | 3402A0124 |
| 13.90mm | 11mm | 3mm | 1.5 | G | 3402A0125 | 3402A0125 |
| 13.67mm | 11mm | 3mm | 2 | G | 3402A0126 | 3402A0126 |
| 13.21mm | 11mm | 3mm | 3 | G | 3402A0082 | 3402A0082 |
| 20mm | 20mm | 2mm | 2 | 4xR* | 3401E0042 | 3401E0042 |
| Style H | | | | | | |
| 34mm | 12.7mm | 3mm | 1.5/2/3/Bevel | H | CSEN750002 | CSEN750002 |
| 34mm | 12.7mm | 3mm | 1.5/2/3/Bevel | H | 3402N0026 | 3402N0026 |
| Style W | | | | | | |
| 20mm | 17.4mm | 2mm | 1 | W | 3401E0073 | 3401E0073 |
| 20mm | 17.4mm | 2mm | 1.5 | W | 3401E0092 | 3401E0092 |
| 20mm | 17.4mm | 2mm | 2 | W | 3401E0040 | 3401E0040 |
| 20mm | 16.2mm | 2mm | 3 | W | 3401E0018 | 3401E0018 |
| 20mm | 16.2mm | 2mm | 3 | W | 3402N0126 | 3402N0126 |

Images are **not to scale** and only serve to identify the general shape of an insert. **Final determination of correct insert is confirmed when ordered.**

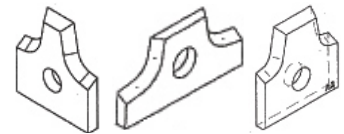
Style B



Style C



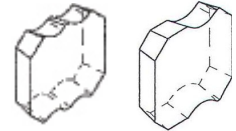
Style D



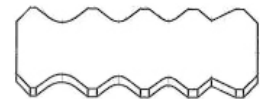
Style F



Style G



Style H



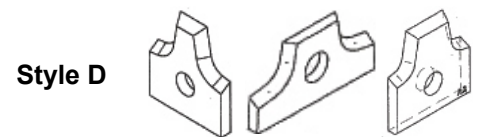
Style W



*Four radius insert style (not pictured to the right)

HOLZ-HER RADIUS INSERTS

| Style | Item# (RH) | Item# (LH) |
|------------------------|------------|------------|
| Form 1 (mod. Style H) | 209.8172 | 209.8121 |
| Form 8 (mod. Style H) | 209.8741 | 209.8709 |
| Form 11 (mod. Style H) | 209.9063 | 209.9071 |
| Form 20 (mod. Style H) | 209.8172 | 209.8121 |



| Width | Height | Thickness | R | Style | Item# (RH) | Item# (LH) |
|----------------|--------|-----------|---|-------|-------------|-------------|
| Style D | | | | | | |
| 16mm | 17.5mm | 2mm | 2 | D | 4107.016.02 | 4107.016.02 |
| 16mm | 17.5mm | 2mm | 3 | D | 4107.016.03 | 4107.016.03 |
| Style N | | | | | | |
| 12mm | 12mm | 1.5mm | 3 | N | 4202.012.14 | 4202.012.15 |
| 19.6mm | 15.2mm | 2mm | 3 | N | 4202.196.14 | 4202.196.15 |
| Style P | | | | | | |
| 20mm | 12mm | 1.5mm | 2 | P | 4108.020.02 | Scraping |
| 20mm | 12mm | 1.5mm | 3 | P | 4108.020.03 | Scraping |



SCM RADIUS INSERTS

| Width | Height | Thickness | R | Style | Item# (RH) | Item# (LH) |
|----------------|--------|-----------|-----------|-------|----------------|--------------|
| Style D | | | | | | |
| 16mm | 13mm | 2mm | 1.5 | D | 0738160125F | 0738160125F |
| 16mm | 13mm | 2mm | 2 | D | 0738160127A | 0738160127A |
| 16mm | 14mm | 2mm | 3 | D | 0738160129E | 0738160129E |
| 16mm | 17,5mm | 2mm | 1.5 | D | 0757901216F | 0757901216F |
| 16mm | 17,5mm | 2mm | 2 | D | 0757900911L | 0757900911L |
| 16mm | 17.5mm | 2mm | 3 | D | 0357901207H | 0357901207H |
| Style G | | | | | | |
| 12.7mm | 12.7mm | 3.18mm | 1 | G | 0375150359L | Scraping |
| 12.7mm | 12.7mm | 3.18mm | 1.5 | G | 0337424621F | Scraping |
| 12.7mm | 12.7mm | 3.18mm | 2 | G | 0337424622H | Scraping |
| 12.7mm | 12.7mm | 3.18mm | 3 | G | 0337424601D | Scraping |
| 30mm | 12mm | 1.5mm | | | 99-005161-0578 | Glue scraper |
| Style L | | | | | | |
| 15mm | 12mm | 1.5mm | 3 | L | 0333724139H | 0333724138F |
| 15mm | 12mm | 1.5mm | 2 | L | 0367140072A | 0367140073C |
| 15mm | 12mm | 1.5mm | 3 | L | 0367140069E | 0367140071H |
| 30mm | 12mm | 1.5mm | 2 | L | 0333724141B | 0333724140L |
| 20mm | 12mm | 1.5mm | 3 | L | 0356218776E | 0356118776D |
| Style W | | | | | | |
| 16mm | 14.2mm | 2mm | 2 | W | 0369806413E | 0369806413E |
| 16mm | 14.4mm | 2mm | 1.5 | W | 0369806411A | 0369806411A |
| 16mm | 14.4mm | 2mm | 2 | W | 0369924071B | 0369924071B |
| 16mm | 14.4mm | 2mm | 3 | W | 0369924076C | 0369924076C |
| 16mm | 14.4mm | 2mm | 3 | W | 0369924555L | 0369924555L |
| 16mm | 14.4mm | 2mm | R1.5/Flat | W | 0369924625H | 0369924625H |
| 16mm | 14.4mm | 2mm | R2/Flat | W | 0369924564H | 0369924564H |
| 20mm | 14.4mm | 2mm | R3/Flat | W | 0369934669B | 0369934669B |

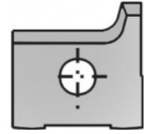


BRANDT RADIUS INSERTS

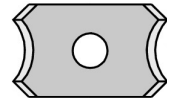
| Width | Height | Thickness | R | Style | Item# (RH) | Item# (LH) |
|----------------|--------|-----------|---|-------|-------------|-------------|
| Style N | | | | | | |
| 12mm | 14.5mm | 2mm | 3 | N | 4202.012.14 | 4202.012.15 |
| 15mm | 14.5mm | 2mm | 2 | N | 4202.015.13 | 4202.015.12 |
| 15mm | 14.5mm | 2mm | 3 | N | 4202.015.14 | 4202.015.15 |
| 19.6mm | 15.2mm | 2mm | 3 | N | 4202.196.14 | 4202.196.15 |
| Style P | | | | | | |
| 20mm | 12mm | 2mm | 2 | P | 4108.020.02 | Scraping |
| 20mm | 12mm | 2mm | 3 | P | 4108.020.03 | Scraping |
| Style S | | | | | | |
| 20.5mm | 14mm | 2mm | 2 | S | 4202.124.02 | 4202.124.03 |
| 20.5mm | 14mm | 2mm | 3 | S | 4202.124.00 | 4202.124.01 |

Images are **not to scale** and only serve to identify the general shape of an insert. **Final determination of correct insert is confirmed when ordered.**

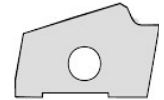
Style N



Style P



Style S



FRAVOL RADIUS INSERTS

| Width | Height | Thickness | R | Style | Item# (RH) | Item# (LH) |
|----------------|--------|-----------|---|-------|------------|------------|
| Style M | | | | | | |
| 16mm | 17.5mm | 2mm | 2 | M | 102.0015 | 102.0016 |
| 16mm | 17.5mm | 2mm | 3 | M | 102.0014 | 102.0013 |
| Style S | | | | | | |
| 16mm | 17.5mm | 2mm | 2 | S | 102.0022 | 102.0023 |
| 16mm | 17.5mm | 2mm | 3 | S | 102.0011 | 102.0012 |

Style M



Style S

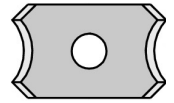


LOOKING FOR A SPECIAL SIZE? WE ROUTINELY MANUFACTURE INSERT KNIVES TO CUSTOMER SPECIFICATIONS!

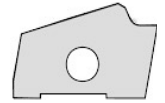
HOMAG/IMA/IDM RADIUS INSERTS

| Width | Height | Thickness | R | Style | Item# (RH) | Item# (LH) |
|----------------|--------|-----------|---|-------|-------------|-------------|
| Style D | | | | | | |
| 16mm | 17.5mm | 2mm | 2 | D | 4202.016.02 | 4202.016.02 |
| 16mm | 17.5mm | 2mm | 3 | D | 4202.016.03 | 4202.016.03 |
| Style P | | | | | | |
| 20mm | 12mm | 1.5mm | 2 | P | 4108.020.02 | Scraping |
| 20mm | 12mm | 1.5mm | 3 | P | 4108.020.03 | Scraping |
| Style S | | | | | | |
| 20.5mm | 14mm | 2mm | 2 | S | 4202.124.02 | 4202.124.03 |
| 20.5mm | 14mm | 2mm | 3 | S | 4202.124.00 | 4202.124.01 |

Style P



Style S



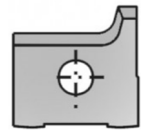
Style D



CEHISA RADIUS INSERTS

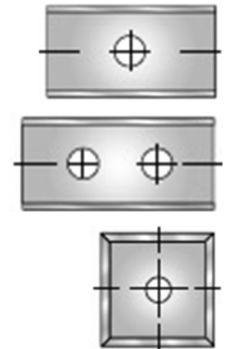
| Width | Height | Thickness | R | Style | Item# (RH) | Item# (LH) |
|-------|--------|-----------|---|-------|--------------|--------------|
| 20mm | 16mm | 2mm | 3 | N | 4202.020.03R | 4202.020.03L |

Style N



UNIVERSAL STRAIGHT TRIMMER INSERTS

| Width (B) | Height | Thickness | R | Item# |
|-----------|--------|-----------|---------|----------------|
| 12mm | 12mm | 1.5mm | Various | 4200.012.00 |
| 12mm | 12mm | 1.5mm | SCM | T1030 |
| 14.3mm | 14.3mm | 2.5mm | Various | 4200.143.14 |
| 14.6mm | 9mm | 1.5mm | SCM | 99-146920-0659 |
| 15mm | 12mm | 1.5mm | Various | 4200.015.00 |
| 15mm | 12mm | 1.5mm | SCM | 0369924734L |
| 20mm | 12mm | 1.5mm | Biesse | 3402N0040 |
| 20mm | 12mm | 1.5mm | Biesse | 3401E0066 |
| 20mm | 12mm | 1.5mm | Various | 4200.020.00 |
| 20mm | 12mm | 1.5mm | SCM | T4032 |
| 25mm | 12mm | 1.5mm | Biesse | 3402N0127 |
| 30mm | 12mm | 1.5mm | Biesse | 3402N0011 |
| 30mm | 12mm | 1.5mm | Various | 4200.030.00 |
| 30mm | 12mm | 1.5mm | SCM | T4033 |
| 40mm | 12mm | 1.5mm | Various | 4200.040.00 |
| 50mm | 12mm | 1.5mm | Various | 4200.050.00 |



CARBIDE-TIPPED END TRIM BLADES



| D | Kerf | Bore | Pinholes | Z | Tooth Style | Item# (RH) | Item# (LH) |
|---------------------|-------|------|-------------|------|----------------------|-------------|-------------|
| Biesse | | | | | | | |
| 100mm | 3.2mm | 30mm | | 20 | pos. alternate bevel | CSEN750069 | CSEN750069 |
| 115mm | 3.2mm | 52mm | 3 C/S | 30 | pos. single bevel | 3402E0007 | 3402E0002 |
| 115mm | 3.2mm | 56mm | 3 C/S | 30 | pos. single bevel | 3402E0009 | 3402E0010 |
| 120mm | 3.6mm | 40mm | 4 C/S | 16+4 | pos. single bevel | 3401N0209 | 3401N0210 |
| 130mm | 3.6mm | 30mm | 4 C/S | 20+4 | pos. single bevel | 3401N0302 | 3401N0303 |
| 130mm | 3.6mm | 30mm | 4 | 20 | pos. alternate bevel | 3401N0301 | 3401N0301 |
| 140mm | 3.6mm | 30mm | 3+3 C/S | 36 | pos. alternate bevel | 3401N0503 | 3401N0503 |
| 140mm | 3.2mm | 30mm | | 36 | pos. single bevel | 3402E0001 | 3402E0006 |
| 140mm | 3.6mm | 55mm | | 36 | pos. alternate bevel | CSEN750035 | CSEN750035 |
| 140mm | 3.6mm | 45mm | 4/4.6/55 | 20+4 | pos. single bevel | CSEN750029 | CSEN750030 |
| 150mm | 3.6mm | 30mm | 3 C/S | 36+4 | pos. single bevel | 3401E0025 | 3401A0024 |
| 150mm | 3.6mm | 55mm | | 32+4 | pos. single bevel | CSEN750036 | CSEN750036 |
| 150mm | 3.2mm | 55mm | | 36 | neg. single bevel | CSEN750047 | CSEN750046 |
| 160mm | 3.2mm | 20mm | | 48 | pos. alternate bevel | 3401E0007 | 3401E0007 |
| Cehisa | | | | | | | |
| 100mm | 3.0mm | 32mm | | 20 | pos. single bevel | 2060.100.32 | 2060.101.32 |
| 110mm | 3.2mm | 32mm | | 30 | pos. single bevel | 2060.110.50 | 2060.110.51 |
| Hebrock | | | | | | | |
| 100mm | 2.4mm | 22mm | | 20 | pos. alternate bevel | 2060.102.22 | 2060.102.22 |
| Holz-Her | | | | | | | |
| 90mm | 3.2mm | 30mm | | 20 | pos. alternate bevel | 2060.090.30 | 2060.090.30 |
| 110mm | 3.6mm | 22mm | | 20 | pos. alternate bevel | 2060.110.22 | 2060.110.22 |
| 120mm | 3.2mm | 20mm | | 24 | pos. alternate bevel | 2060.120.20 | 2060.120.20 |
| 140mm | 3.2mm | 22mm | | 36 | pos. alternate bevel | 2060.140.22 | 2060.140.22 |
| 160mm | 3.2mm | 22mm | | 48 | pos. single bevel | 2060.160.22 | 2060.160.22 |
| 160mm | 3.2mm | 40mm | | 48 | pos. single bevel | 2060.160.40 | 2060.161.40 |
| Homag/Brandt | | | | | | | |
| 100mm | 2.6mm | 32mm | | 30 | pos. single bevel | 2060.107.32 | 2060.108.32 |
| 100mm | 3.0mm | 32mm | | 20 | pos. single bevel | 2060.101.32 | 2060.100.32 |
| 100mm | 2.6mm | 32mm | | 30 | pos. alternate bevel | 2092.100.32 | 2092.100.32 |
| 100mm | 3.2mm | 22mm | | 20 | pos. single bevel | 2060.100.22 | 2060.101.22 |
| 100mm | 3.0mm | 32mm | | 20 | neg. single bevel | 2060.103.32 | 2060.102.32 |
| 100mm | 3.6mm | 32mm | | 20 | pos. alternate bevel | 2060.104.32 | 2060.104.32 |
| 100mm | 3.0mm | 32mm | | 30 | pos. single bevel | 2060.105.32 | 2060.106.32 |
| 110mm | 3.2mm | 32mm | | 30 | pos. single bevel | 2060.110.50 | 2060.110.51 |
| 110mm | 3.2mm | 40mm | 4+4/6-11/52 | 20 | pos. alternate bevel | 2060.110.40 | 2060.110.40 |
| 110mm | 3.6mm | 32mm | | 20 | pos. alternate bevel | 2060.110.32 | 2060.110.32 |
| 120mm | 3.2mm | 32mm | | 24 | pos. alternate bevel | 2060.120.32 | 2060.120.32 |
| 120mm | 3.6mm | 40mm | | 24 | pos. alternate bevel | 2060.120.40 | 2060.120.40 |
| 170mm | 3.5mm | 30mm | 4/5.5/52 | 48 | pos. single bevel | 2060.171.30 | 2060.170.30 |
| 170mm | 3.2mm | 30mm | 4/5.5/52 | 36 | pos. alternate bevel | 2060.172.30 | 2060.172.30 |

CARBIDE-TIPPED END TRIM BLADES continued

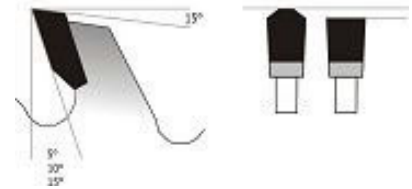
| D | Kerf | Bore | Pinholes | Z | Tooth Style | Item# (RH) | Item# (LH) |
|------------------------|-------|------|--------------|------|----------------------|-------------|-------------|
| IMA | | | | | | | |
| 100mm | 3.0mm | 22mm | | 20 | pos. single bevel | 2060.100.22 | 2060.101.22 |
| 150mm | 3.5mm | 22mm | | 48 | pos. alternate bevel | 2060.154.22 | 2060.154.22 |
| 160mm | 3.5mm | 22mm | | 36 | neg. alternate bevel | 2060.163.22 | 2060.163.22 |
| 160mm | 3.5mm | 22mm | | 48 | pos. alternate bevel | 2060.164.22 | 2060.164.22 |
| SCM/IDM/Stefani | | | | | | | |
| 90mm | 3.0mm | 30mm | | 20 | pos. single bevel | 0356005042L | 0356005041G |
| 100mm | 2.4mm | 30mm | | 30 | pos. alternate bevel | 2092.100.30 | 2092.100.30 |
| 100mm | 2.4mm | 30mm | | 30 | pos. alternate bevel | 0533725633B | 0533725633B |
| 110mm | 3.0mm | 32mm | | 20 | pos. alternate bevel | 0756020604A | 0756020604A |
| 110mm | 3.6mm | 32mm | | 20 | pos. single bevel | 2060.114.32 | 2060.115.32 |
| 115mm | 2.6mm | 30mm | | 30 | pos. alternate bevel | 0533725662C | 0533725662C |
| 125mm | 3.2mm | 20mm | | 36 | pos. single bevel | 0000620052A | 0000620053C |
| 125mm | 3.2mm | 20mm | | 30 | pos. single bevel | 2060.125.20 | 2060.125.21 |
| 125mm | 3.0mm | 30mm | | 18 | pos. single bevel | 0356019319E | 0356019320F |
| 125mm | 4.5mm | 30mm | | 20 | pos. alternate bevel | 0533750121F | 0533750121F |
| 140mm | 3.0mm | 30mm | | 16+4 | pos. single bevel | 0356006524D | 0356006523B |
| 150mm | 3.2mm | 20mm | | 24 | pos. single bevel | 0535451820B | 0535451821D |
| 150mm | 3.2mm | 30mm | | 36 | pos. single bevel | 0000620065H | 0000620066A |
| 150mm | 3.2mm | 35mm | | 24+6 | pos. single bevel | 2060.150.35 | 2060.151.35 |
| 160mm | 3.2mm | 20mm | | 24 | pos. single bevel | 0535451823H | 0535451822F |
| 170mm | 3.2mm | 20mm | | 36 | pos. single bevel | 0369924007G | 0369924006E |
| 180mm | 2.8mm | 20mm | | 40 | pos. single bevel | 0369804825G | 0369804824E |
| Other | | | | | | | |
| 125mm | 3.2mm | 22mm | Fravol/Camal | 36 | pos. single bevel | 2060.126.22 | 2060.125.22 |
| 140mm | 3.2mm | 16mm | OTT | 36 | pos. single bevel | 2060.140.16 | 2060.141.16 |

SPECIAL CUT-OFF BLADES (FOR TABLE SAWS)

2000T

For sizing and finishing cuts in plywood, veneer, laminated composite materials such as particleboard and MDF. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 8" | .110" | .070" | 5/8" | 15° | 40 | 2000.220T40 |
| 8" | .110" | .078" | 5/8" | 10° | 60 | 2000.220T60 |
| 10" | .126" | .087" | 5/8" | 15° | 40 | 2000.250T40 |
| 10" | .126" | .087" | 5/8" | 10° | 60 | 2000.250T60 |
| 10" | .126" | .087" | 5/8" | 5° | 80 | 2000.250T80 |
| 12" | .126" | .087" | 1" | 10° | 60 | 2000.300T60 |
| 12" | .126" | .087" | 1" | 10° | 72 | 2000.300T72 |
| 12" | .126" | .087" | 1" | 5° | 100 | 2000.300T10 |
| 14" | .155" | .109" | 1" | 10° | 60 | 2000.350T60 |
| 14" | .137" | .100" | 1" | 10° | 84 | 2000.350T84 |
| 14" | .150" | .109" | 1" | 5° | 100 | 2000.350T10 |
| 16" | .155" | .110" | 1" | 15° | 80 | 2000.400T80 |
| 18" | .180" | .134" | 1" | 10° | 80 | 2000.450T80 |
| 18" | .180" | .134" | 1" | 10° | 100 | 2000.450T10 |

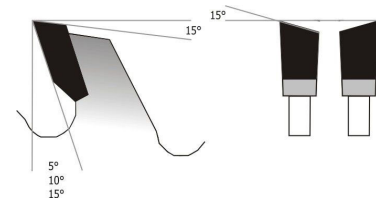


STANDARD CUT-OFF BLADES (FOR TABLE SAWS)

2000A

Universal application for cutting with or across the grain in solid wood and plywood. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 8" | .110" | .070" | 5/8" | 15° | 40 | 2000.220A40 |
| 8" | .110" | .070" | 1" | 15° | 40 | 2000.221A40 |
| 8" | .118" | .078" | 5/8" | 10° | 60 | 2000.220A60 |
| 9" | .128" | .087" | 5/8" | 10° | 60 | 2000.230A60 |
| 10" | .126" | .087" | 5/8" | 10° | 40 | 2000.250A40 |
| 10" | .126" | .087" | 1" | 15° | 40 | 2000.251A40 |
| 10" | .126" | .087" | 5/8" | 10° | 60 | 2000.250A60 |
| 10" | .126" | .087" | 1" | 10° | 60 | 2000.251A60 |
| 10" | .126" | .087" | 5/8" | 5° | 80 | 2000.250A80 |
| 12" | .126" | .087" | 1" | 15° | 48 | 2000.300A48 |
| 12" | .126" | .087" | 1" | 10° | 60 | 2000.300A60 |
| 12" | .126" | .087" | 1" | 10° | 72 | 2000.300A72 |
| 12" | .126" | .087" | 1" | 5° | 100 | 2000.300A10 |
| 14" | .155" | .109" | 1" | 10° | 60 | 2000.350A60 |
| 14" | .150" | .109" | 1" | 5° | 80 | 2000.350A80 |
| 14" | .150" | .109" | 1" | 5° | 100 | 2000.350A10 |
| 16" | .155" | .110" | 1" | 15° | 40 | 2000.400A40 |
| 16" | .155" | .110" | 1" | 15° | 60 | 2000.400A60 |
| 16" | .155" | .110" | 1" | 15° | 80 | 2000.400A80 |
| 18" | .180" | .134" | 1" | 10° | 60 | 2000.450A60 |
| 18" | .180" | .134" | 1" | 10° | 80 | 2000.450A80 |

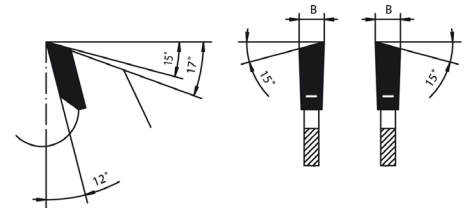


STANDARD CUT-OFF BLADES (FOR SLIDING TABLE SAW)

2020-2024

Universal application for cutting with or across the grain in solid wood and plywood.
Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|------|----------|-----------|------------------|
| 150mm | 2.6mm | 1.6mm | 30mm | 12° | | 36 | 2023.150.30 |
| 150mm | 2.6mm | 1.6mm | 30mm | 8° | | 48 | 2024.150.30 |
| 180mm | 2.6mm | 1.6mm | 30mm | 12° | 2/7/42 | 36 | 2022.180.30 |
| 180mm | 2.6mm | 1.6mm | 30mm | 8° | 2/7/42 | 56 | 2024.180.30 |
| 200mm | 2.8mm | 1.8mm | 30mm | 8° | 2/7/42 | 64 | 2024.200.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | 15° | CNL | 30 | 2020.250.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 42 | 2121.250.31 (PP) |
| 250mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 48 | 2022.250.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 60 | 2023.250.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 60 | 2123.250.31 (PP) |
| 250mm | 3.2mm | 2.2mm | 30mm | 8° | CNL | 80 | 2024.250.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | 8° | CNL | 80 | 2124.250.31 (PP) |
| 280mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 48 | 2021.280.30 |
| 280mm | 3.2mm | 2.2mm | 30mm | 12° | KNL | 68 | 2023.280.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 15° | CNL | 36 | 2020.300.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 48 | 2021.300.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 48 | 2121.300.31 (PP) |
| 300mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 60 | 2022.300.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 12° | KNL | 72 | 2023.300.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 72 | 2123.300.31 (PP) |
| 315mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 48 | 2021.315.30 |
| 315mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 72 | 2023.315.30 |
| 330mm | 3.2mm | 2.2mm | 30mm | 8° | 2/10/60 | 100 | 2024.330.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 54 | 2021.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 54 | 2121.350.31 (PP) |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 72 | 2022.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 84 | 2023.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 84 | 2123.350.31 (PP) |
| 350mm | 3.5mm | 2.5mm | 30mm | 8° | CNL | 108 | 2024.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 8° | CNL | 108 | 2124.350.31 (PP) |
| 350mm | 3.5mm | 2.5mm | 30mm | 15° | CNL | 42 | 2020.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 54 | 2021.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 54 | 2121.350.31 (PP) |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 72 | 2022.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 84 | 2023.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 84 | 2123.350.31 (PP) |
| 350mm | 3.5mm | 2.5mm | 30mm | 8° | CNL | 108 | 2024.350.30 |
| 350mm | 3.5mm | 2.5mm | 30mm | 8° | CNL | 108 | 2124.350.31 (PP) |
| 400mm | 3.5mm | 2.5mm | 30mm | 15° | CNL | 48 | 2020.400.30 |
| 400mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 60 | 2021.400.30 |
| 400mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 84 | 2022.400.30 |
| 400mm | 3.5mm | 2.5mm | 30mm | 12° | 2/10/60 | 96 | 2023.400.30 |
| 400mm | 3.5mm | 2.5mm | 30mm | 8° | CNL | 120 | 2024.400.30 |
| 450mm | 4.0mm | 2.8mm | 30mm | 12° | CNL | 66 | 2021.450.30 |
| 450mm | 4.0mm | 2.8mm | 30mm | 12° | KNL | 108 | 2023.450.30 |
| 450mm | 4.0mm | 2.8mm | 30mm | 5° | CNL | 96 | 2023.450.30 |
| 450mm | 4.0mm | 2.8mm | 30mm | 8° | CNL | 132 | 2024.450.30 |
| 500mm | 4.0mm | 2.8mm | 30mm | 5° | CNL | 72 | 2024.500.31F |
| 500mm | 4mm | 2.8mm | 30mm | 5° | CNL | 108 | 2023.500.30 |
| 500mm | 4.0mm | 2.8mm | 30mm | 5° | CNL | 144 | 2024.500.30F |
| 550mm | 4.2mm | 3.2mm | 30mm | 5° | CNL | 84 | 2024.550.31F |
| 550mm | 4.2mm | 3.2mm | 30mm | 5° | CNL | 120 | 2024.550.30F |



CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

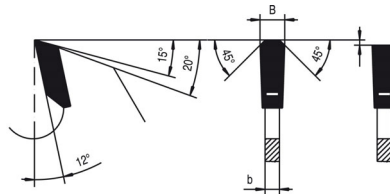
KNL = Combination Pinholes 2/10/60 + 2/7/42

PP = Piano Plus Version is a special plate design for very quiet running blades.

SPECIAL CUT-OFF BLADES (FOR SLIDING TABLE SAW)

2039-2139

For clean cuts in thermoplastic panels up to 10mm thick, phenolic resin bonded paper, and phenolic laminated panels up to 6mm thick. Also for clean cuts in veneered or laminated composite materials such as particleboard and MDF, preferably in combination with the use of a scoring blade (see Item#2055 on page 94). Triple chip tooth design and quiet running design with copper plugs. Carbide tipped.



| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Pinholes | Teeth (Z) | Machine | Item# |
|-------|----------|-----------|----------|------|----------|-----------|-------------------|------------------|
| 220mm | 3.2mm | 2.2mm | 30mm | 12° | 2/7/42 | 64 | Holz-Her | 2039.220.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 60 | | 2139.250.31 (PP) |
| 250mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 80 | | 2039.250.30 |
| 280mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 60 | | 2039.280.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 72 | Altendorf, Lazari | 2039.300.30 |
| 300mm | 3.2mm | 2.2mm | 1" | 12° | CNL | 72 | SCM | 2000.300T72 |
| 303mm | 3.2mm | 2.2mm | 30mm | 12° | KNL | 60 | | 2139.303.31 (PP) |
| 303mm | 3.2mm | 2.2mm | 30mm | 12° | KNL | 72 | | 2139.303.32 (PP) |
| 303mm | 3.2mm | 2.2mm | 30mm | 12° | KNL | 96 | | 2139.303.33 (PP) |
| 305mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 60 | | 2039.305.30 |
| 305mm | 3.2mm | 2.2mm | 30mm | 12° | CNL | 96 | | 2039.301.30 |
| 350mm | 3.4mm | 2.4mm | 1" | 12° | CNL | 84 | SCM | 2000.350T84 |
| 350mm | 3.5mm | 2.4mm | 30mm | 12° | CNL | 84 | | 2139.350.30 (PP) |
| 350mm | 3.5mm | 2.5mm | 30mm | 12° | CNL | 108 | | 2039.350.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

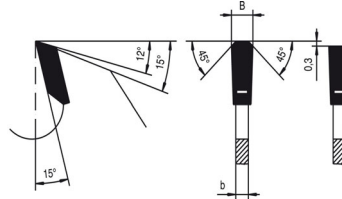
KNL = Combination Pinholes 2/10/60 + 2/7/42

PP = Piano Plus Version is a special plate design for very quiet running blades.

PANEL SAW BLADES (FOR WOOD COMPOSITES)

2052

Triple Chip Grind (TCG) for sizing and finishing cuts in laminated composite panels, MDF and particleboard. Carbide-tipped. See more options continued on the following page.



| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Machine | Item# |
|-------|----------|-----------|----------|-----------|----------------------------------|-------------------------------|------------------|
| 250mm | 3.2mm | 2.2mm | 30mm | 60 | CNL | | 2139.250.31 (PP) |
| 280mm | 3.2mm | 2.2mm | 30mm | 60 | CNL | Panhans | 2039.280.30 |
| 300mm | 4.48mm | 3.2mm | 75mm | 96 | | Homag CV | 2052.302.75 |
| 300mm | 4.4mm | 3.2mm | 30mm | 72 | CNL | | 2052.301.30 |
| 300mm | 4.4mm | 3.2mm | 60mm | 72 | 2/14/100 | Holzma | 2052.300.60F |
| 300mm | 4.4mm | 3.2mm | 65mm | 60 | Multiple | Selco | 2052.300.65 |
| 300mm | 4.4mm | 3.2mm | 75mm | 72 | | Homag España | 2052.300.76 |
| 300mm | 4.4mm | 3.2mm | 75mm | 96 | | Homag CV | 2052.301.75 |
| 300mm | 4.4mm | 3.2mm | 80mm | 60 | Multiple | SCM | 2052.300.80 |
| 300mm | 4.4mm | 3.2mm | 80mm | 72 | Multiple | SCM | 2052.300.81 |
| 300mm | 4.4mm | 3.2mm | 30mm | 60 | CNL | | 2052.300.30 |
| 303mm | 3.2mm | 2.2mm | 30mm | 60 | CNL | Scheer | 2139.303.31 (PP) |
| 303mm | 3.2mm | 2.2mm | 30mm | 72 | CNL | Scheer | 2139.303.32 (PP) |
| 303mm | 3.2mm | 2.2mm | 30mm | 96 | CNL | Scheer | 2139.303.33 (PP) |
| 305mm | 3.2mm | 2.2mm | 30mm | 60 | CNL | Scheer | 2039.305.30 |
| 305mm | 4.4mm | 3.2mm | 30mm | 60 | 2/10/1960 | Mayer, Panhans, SCM | 2052.305.31 |
| 310mm | 4.4mm | 3.2mm | 60mm | 72 | Multiple | Holzma/Homag | 2052.310.60 |
| 320mm | 4.4mm | 3.2mm | 30mm | 72 | 2/9/110+3/13/95 | Mayer, Felder | 2052.320.30 |
| 320mm | 4.4mm | 3.2mm | 50mm | 72 | 2/9/110+3/13/95 | Giben | 2052.320.50 |
| 320mm | 4.4mm | 3.2mm | 65mm | 72 | 2/9/110 | Selco | 2052.320.65 |
| 320mm | 4.4mm | 3.2mm | 75mm | 72 | 2/9/110+3/13/95 | Giben | 2052.320.75 |
| 320mm | 4.4mm | 3.2mm | 80mm | 72 | 2/9/110+3/13/95 | | 2052.320.80 |
| 350mm | 4.4mm | 3.2mm | 30mm | 72 | 2/10/1960 | Mayer, SCM, Scheer, Schelling | 2052.350.30 |
| 350mm | 4.4mm | 3.2mm | 60mm | 72 | 2/14/100 | Holzma HPP 72 | 2052.350.60 |
| 350mm | 4.4mm | 3.2mm | 75mm | 54 | | Giben, Homag España | 2052.350.76 |
| 350mm | 4.4mm | 3.2mm | 75mm | 72 | | Giben, Homag España | 2052.350.75 |
| 350mm | 4.4mm | 3.2mm | 80mm | 72 | 2/7/110+4/8.5/100+2/14/110 | Gabbiani, SCM | 2052.350.80 |
| 355mm | 4.4mm | 3.2mm | 30mm | 72 | 2/10/60+2/14/110+4/9/100+2/9/130 | Mayer, SCM, Scheer, Schelling | 2152.355.31 (PP) |
| 355mm | 4.4mm | 3.2mm | 65mm | 72 | Multiple | Selco/Cehisa | 2052.355.65 |
| 355mm | 4.4mm | 3.2mm | 75mm | 72 | 2/10/60+2/14/110+4/9/100+2/9/130 | Giben, Homag España | 2152.355.75 (PP) |
| 355mm | 4.4mm | 3.2mm | 80mm | 72 | 2/10/60+2/14/110+4/9/100+2/9/130 | Gabbiani, SCM, Selco | 2152.355.80 (PP) |
| 360mm | 4.4mm | 3.2mm | 30mm | 72 | 2/13/94 | Schelling | 2052.360.30 |
| 360mm | 4.4mm | 3.2mm | 65mm | 72 | 2/9/110+2/9/100 | Selco | 2052.360.65 |
| 370mm | 4.4mm | 3.2mm | 30mm | 72 | 2/10/1960 | Panhans, Schelling | 2052.370.30 |
| 380mm | 4.4mm | 3.2mm | 30mm | 72 | Multiple | Holz-Her | 2052.380.30 |
| 380mm | 4.4mm | 3.2mm | 50mm | 72 | Multiple | Giben | 2052.380.50F |
| 380mm | 4.4mm | 3.2mm | 60mm | 72 | 2/14/100 | Holzma | 2052.380.61 |
| 380mm | 4.4mm | 3.2mm | 60mm | 72 | 2/14/100 | Holzma | 2152.381.61 (PP) |
| 380mm | 4.4mm | 3.2mm | 65mm | 72 | 2/9/110 | Selco | 2052.380.65F |
| 380mm | 4.4mm | 3.2mm | 80mm | 72 | 2/14/110 | SCM Sigma | 2052.380.80 |
| 380mm | 4.8mm | 3.5mm | 60mm | 60 | Multiple | Holzma/Homag | 2052.381.60 |
| 380mm | 4.8mm | 3.5mm | 60mm | 72 | 2/14/100 | Holzma | 2152.380.62 (PP) |
| 380mm | 4.8mm | 3.5mm | 60mm | 72 | 2/14/100 | Holzma | 2052.380.60 |
| 380mm | 4.8mm | 3.5mm | 60mm | 84 | 2/14/100 | Holzma | 2052.380.62 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/10/60 + 2/7/42

PP = Piano Plus Version is a special plate design for very quiet running blades.

PANEL SAW BLADES (FOR WOOD COMPOSITES) continued 2052

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Machine | Item# |
|-------|----------|-----------|----------|-----------|------------------------------------|-----------------------------------|------------------|
| 400mm | 4.25mm | 3.2mm | 30mm | 72 | | Scheer Postforming, Schelling | 2052.401.30 |
| 400mm | 4.25mm | 3.2mm | 30mm | 72 | | Scheer Postforming, Schelling | 2152.401.31 (PP) |
| 400mm | 4.4mm | 3.2mm | 30mm | 72 | 2/11/1985 | Scheer, Schelling | 2052.400.30 |
| 400mm | 4.4mm | 3.2mm | 30mm | 72 | | Scheer Schelling | 2152.400.31 (PP) |
| 400mm | 4.4mm | 3.2mm | 60mm | 72 | Multiple | Holzma/Homag | 2052.400.60 |
| 400mm | 4.4mm | 3.2mm | 65mm | 72 | Multiple | Selco/Cehisa | 2052.400.65 |
| 400mm | 4.4mm | 3.2mm | 75mm | 72 | 4/15/105 | Giben, Homag España | 2052.400.75 |
| 400mm | 4.4mm | 3.2mm | 80mm | 72 | 2/7/110+4/8.5/100+2/14/110 | Gabbiani, SCM | 2052.400.80 |
| 400mm | 4.4mm | 3.2mm | 80mm | 72 | 2/9/130+4/19/120 | Irion, Selco, S.M.A | 2052.400.81F |
| 400mm | 4.8mm | 3.5mm | 75mm | 72 | Multiple | Giben | 2052.401.75 |
| 420mm | 4.4mm | 3.2mm | 50mm | 72 | Multiple | Giben | 2052.420.50 |
| 420mm | 4.4mm | 3.2mm | 80mm | 72 | Multiple | Gabbiani | 2052.420.80 |
| 420mm | 4.8mm | 3.5mm | 60mm | 72 | 2/14/125+2/19/120 | Holzma | 2052.421.60 |
| 420mm | 4.8mm | 3.5mm | 60mm | 72 | 2/14/125+2/19/120 | Holzma | 2152.420.61 (PP) |
| 420mm | 4.8mm | 3.5mm | 60mm | 84 | 2/10/80+2/14/125+2/19/120 | Holzma | 2052.420.60 |
| 430mm | 4.4mm | 3.2mm | 30mm | 72 | | | 2052.430.30 |
| 430mm | 4.4mm | 3.2mm | 60mm | 72 | Multiple | Holzma/Homag | 2052.420.60 |
| 430mm | 4.4mm | 3.2mm | 65mm | 72 | Multiple | Selco/Cehisa | 2052.430.65F |
| 430mm | 4.4mm | 3.2mm | 75mm | 72 | Multiple | Giben | 2052.430.75 |
| 430mm | 4.4mm | 3.2mm | 75mm | 96 | 4/15/105 | Giben | 2052.431.75 |
| 430mm | 4.4mm | 3.2mm | 80mm | 72 | 2/9/130+4/19/120 | Selco, S.M.A | 2052.430.80 |
| 450mm | 4.4mm | 3.2mm | 30mm | 72 | 2/9/60+4/15/105+4/19/120+2/9/130 | Mayer, Panhans, Scheer, Schelling | 2052.450.30 |
| 450mm | 4.4mm | 3.2mm | 75mm | 72 | 2/9/60+4/15/105+4/19/120+2/9/130 | Giben Prisma | 2052.450.75 |
| 450mm | 4.4mm | 3.2mm | 80mm | 72 | Multiple | Selco/Gabbiani | 2052.450.80 |
| 450mm | 4.4mm | 3.2mm | 80mm | 96 | 2/9/130+4/19/120 | Irion, Selco, S.M.A | 2052.450.81 |
| 450mm | 4.8mm | 3.5mm | 60mm | 60 | Multiple | Holzma/Homag | 2052.450.60 |
| 450mm | 4.8mm | 3.5mm | 60mm | 72 | 2/14/125+2/19/120 | Holzma | 2052.451.60 |
| 450mm | 4.8mm | 3.5mm | 80mm | 72 | Multiple | Selco/Gabbiani | 2052.451.80 |
| 460mm | 4.4mm | 3.2mm | 30mm | 72 | 2/13/94+4/15/105 | Schelling FH-6 | 2052.460.30 |
| 460mm | 4.4mm | 3.2mm | 75mm | 72 | Multiple | Giben | 2052.460.75 |
| 470mm | 4.4mm | 3.2mm | 75mm | 72 | Multiple | Giben | 2052.470.75F |
| 480mm | 4.4mm | 3.2mm | 30mm | 72 | 2/19/120+2/9/130 | Schelling | 2052.480.31 |
| 480mm | 4.4mm | 3.2mm | 30mm | 80 | | Schelling | 2052.480.30 |
| 480mm | 4.4mm | 3.2mm | 60mm | 72 | 2/19/120+2/9/130 | | 2052.480.60 |
| 480mm | 4.4mm | 3.2mm | 80mm | 72 | 2/19/120+2/9/130+2/11/115 | | 2052.480.80 |
| 480mm | 4.8mm | 3.5mm | 60mm | 72 | Multiple | Holzma/Homag | 2052.480.60 |
| 500mm | 4.8mm | 3.5mm | 60mm | 60 | 1/11/85+2/11/115 | Anthon, Holzma | 2052.500.60 |
| 520mm | 4.8mm | 3.5mm | 30mm | 72 | 2/13/94+2/11/115+2/19/120+4/11/130 | Schelling | 2052.520.31 |
| 520mm | 4.8mm | 3.5mm | 60mm | 60 | 2/11/115+2/19/120 | Holzma | 2052.520.60 |
| 520mm | 4.8mm | 3.5mm | 60mm | 72 | 2/13/94+2/11/115+2/19/120+4/11/130 | Holzma | 2052.520.61 |
| 520mm | 4.8mm | 3.5mm | 70mm | 72 | 2/13/94+2/11/115+2/19/120+4/11/130 | Selco | 2052.520.71 |
| 520mm | 4.8mm | 3.5mm | 75mm | 72 | 2/13/94+2/11/115+2/19/120+4/11/130 | Selco | 2052.520.76 |
| 550mm | 5.0mm | 3.5mm | 80mm | 60 | | S.M.A. Teutomatic | 2052.550.80 |
| 550mm | 5.5mm | 3.8mm | 40mm | 72 | 2/13/122 | Schelling | 2052.550.40 |
| 565mm | 5.0mm | 3.5mm | 100mm | 72 | | Giben | 2052.565.10 |
| 570mm | 4.8mm | 3.5mm | 60mm | 60 | Multiple | Holzma/Homag | 2052.570.60 |
| 600mm | 5.8mm | 4.0mm | 60mm | 60 | Multiple | Holzma/Homag | 2052.600.61 |
| 600mm | 5.8mm | 4.2mm | 60mm | 72 | 2/11/115+2/19/120 | Holzma | 2052.600.60 |
| 720mm | 6.4mm | 4.4mm | 40mm | 60 | | Schelling | 2052.720.40 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

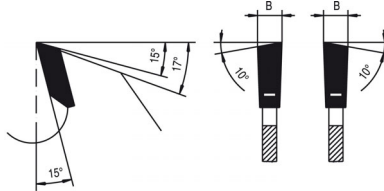
KNL = Combination Pinholes 2/10/60 + 2/7/42

PP = Piano Plus Version is a special plate design for very quiet running blades.

PANEL SAW BLADES (FOR SOLID WOOD)

2050

Alternate Top Grind (ATB) for sizing and finishing cuts in wood and plywood. 15° hook angle. Micrograin carbide grade. Carbide-tipped.



| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Machine | Item# |
|-------|----------|-----------|----------|-----------|-------------------|-----------------------------------|-------------|
| 305mm | 4.4mm | 3.0mm | 30mm | 54 | 2/10/60 | Mayer, Panhans, SCM | 2050.305.30 |
| 350mm | 4.4mm | 3.0mm | 30mm | 54 | 2/10/60 | Panhans, SCM, Scheer | 2050.350.30 |
| 350mm | 4.4mm | 3.0mm | 30mm | 72 | 2/10/60 | Panhans, Schelling, SCM, Scheer | 2050.350.31 |
| 355mm | 4.4mm | 3.0mm | 75mm | 54 | 4/15/105 | Giben | 2050.355.75 |
| 355mm | 4.4mm | 3.0mm | 30mm | 72 | | Panhans, SCM | 2050.355.31 |
| 355mm | 4.4mm | 3.0mm | 80mm | 72 | 4/9/100+2/14/110 | Gabbiani, SCM, S.M.A | 2050.355.81 |
| 380mm | 4.8mm | 3.5mm | 60mm | 40 | 2/14/100 | Holzma | 2050.380.60 |
| 400mm | 4.4mm | 3.0mm | 30mm | 60 | | Mayer, Irion, Schelling | 2050.400.30 |
| 400mm | 4.4mm | 3.0mm | 30mm | 72 | | Mayer, Irion, Schelling | 2050.400.31 |
| 430mm | 4.4mm | 3.0mm | 80mm | 60 | 2/9/130+4/19/120 | S.M.A, Selco | 2050.430.80 |
| 450mm | 4.4mm | 3.0mm | 30mm | 72 | 2/9/60 | Irion, Panhans, Scheer, Schelling | 2050.450.31 |
| 450mm | 4.4mm | 3.0mm | 80mm | 72 | 2/9/130+4/19/120 | S.M.A. Selco, Irion | 2050.450.81 |
| 500mm | 4.4mm | 3.0mm | 30mm | 72 | | Schelling, Irion | 2050.500.31 |
| 550mm | 5.0mm | 3.5mm | 80mm | 60 | | S.M.A. Teutomatic | 2050.550.82 |
| 620mm | 6.2mm | 4.0mm | 40mm | 70 | 2/14/113 | Schelling | 2052.620.40 |
| 670mm | 6.2mm | 4.0mm | 40mm | 72 | 2/13/114+2/13/140 | Schelling | 2052.670.40 |
| 730mm | 6.2mm | 4.0mm | 60mm | 60 | 2/11/120+2/11/148 | Holzma | 2052.730.60 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/10/60 + 2/7/42

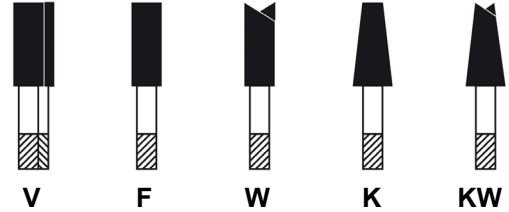
PP = Piano Plus Version is a special plate design for very quiet running blades.

SCORING SAW BLADES

2055

Scoring saw blades for panel saws and sliding table saws. Carbide-tipped.

- V/W = 2-piece Adjustable/Alternate Top Bevel
- V/F = 2-piece Adjustable/Flat Top
- F = Flat Top
- W = Alternate Top Bevel
- K = Conic
- K/W = Conic/Alternate Top Bevel



| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Machine | Item# |
|-------|-------------|-----------|----------|-----------|-----------------|------------------------------|-------------|
| 80mm | 3.10mm | 2.2mm | 20mm | 12 (W) | | Striebig Compact | 2055.081.20 |
| 80mm | 3.38mm | 2.2mm | 20mm | 16 (W) | | Striebig, Felder | 2155.080.20 |
| 80mm | 2.8mm-3.6mm | | 20mm | 10x2 (V) | | GEA, Felder, Striebig | 2055.080.20 |
| 100mm | 2.8mm-3.6mm | | 22mm | 12x2 (V) | | Altendorf, Martin, Striebig | 2055.100.22 |
| 100mm | 2.8mm-3.6mm | | 20mm | 12x2 (V) | | Robland, Schelling, SCM | 2055.101.20 |
| 100mm | 3.10mm | 2.2mm | 22mm | 16 (W) | | Striebig | 2055.101.22 |
| 100mm | 3.38mm | 2.4mm | 22mm | 24 (W) | | Holz-Her, Striebig | 2155.100.22 |
| 100mm | 3.0mm-3.7mm | 2.2mm | 20mm | 20 (K) | | Schelling | 2055.100.20 |
| 120mm | 2.8mm-3.6mm | | 22mm | 12x2 (V) | | Altendorf, Martin | 2055.120.22 |
| 120mm | 2.8mm-3.6mm | | 20mm | 12x2 (V) | | Holz-Her, MAKA, SCM, Lazzari | 2055.120.20 |
| 120mm | 2.8mm-3.6mm | | 22mm | 12x2 (V) | | Altendorf, Martin | 2055.120.22 |
| 120mm | 3.2mm-4.5mm | | 20mm | 12x2 (V) | | SCM | 2055.121.20 |
| 120mm | 2.8mm-3.6mm | | 3/4" | 12x2 (V) | | SCM | 2055.120.75 |
| 120mm | 2.8mm-3.6mm | | 50mm | 12x2 (V) | 2x4 CS | System GUHDO Ritzmatic | 2055.120.51 |
| 120mm | 2.8mm-3.6mm | | 50mm | 12x2 (V) | 2x4 CS | Leuco Rapido (Altendorf) | 2055.120.50 |
| 120mm | 2.8mm-3.6mm | | 57mm | 12x2 (V) | 6 CS | System GUHDO RitzFix | 2055.122.22 |
| 120mm | 3.2mm-3.9mm | 2.4mm | 20mm | 24 (K) | | SCM | 2055.122.20 |
| 125mm | 2.8mm-3.6mm | | 20mm | 12x2 (V) | | Panhans | 2055.125.21 |
| 125mm | 2.8mm-3.6mm | | 22mm | 12x2 (V) | | Panhans | 2055.127.22 |
| 125mm | 3.2mm-3.9mm | 2.4mm | 20mm | 24 (K) | | Panhans, Paolini | 2055.125.20 |
| 125mm | 4.4mm-5.1mm | 3.2mm | 20mm | 24 (K) | | Panhans | 2055.126.20 |
| 125mm | 4.4mm-5.1mm | 3.2mm | 45mm | 24 (K/W) | | Giben, Mayer, Homag España | 2055.125.45 |
| 127mm | 4.4mm-5.1mm | 3.2mm | 45mm | 24 (K) | | Giben, Mayer | 2055.127.45 |
| 150mm | 4.4mm-5.1mm | 3.2mm | 30mm | 24 (K) | | Iron, Mayer, SCM | 2055.150.30 |
| 150mm | 4.4mm-5.1mm | 3.2mm | 45mm | 24 (K/W) | | Homag España | 2055.150.45 |
| 160mm | 4.4mm-5.1mm | 3.2mm | 55mm | 36 (K/W) | 3/7/66+2/14/110 | Gabbiani, SCM | 2055.160.55 |
| 180mm | 4.4mm-5.1mm | 3.5mm | 30mm | 30 (K/W) | 2/10/60 | Panhans, Teutomatic | 2055.180.31 |
| 180mm | 4.4mm-5.1mm | 3.5mm | 45mm | 30 (K/W) | | Holzma, Homag España | 2055.180.46 |
| 180mm | 4.4mm-5.1mm | 3.5mm | 45mm | 36 (K/W) | | Holzma, Homag España | 2055.181.45 |
| 180mm | 4.8mm-5.5mm | 3.5mm | 45mm | 36 (K) | | Holzma | 2055.180.45 |
| 200mm | 3.2mm-3.8mm | 2.5mm | 30mm | 60 (K/W) | | Scheer | 2055.200.31 |
| 200mm | 4.4mm-5.1mm | 3.5mm | 20mm | 34 (K/W) | | Schelling | 2055.200.20 |
| 200mm | 4.4mm-5.1mm | 3.5mm | 30mm | 34 (K) | 2/9/60 | Scheer, Teutomatic, SMA | 2055.200.32 |
| 200mm | 4.4mm-5.1mm | 3.5mm | 45mm | 36 (K) | | Holzma, Homag España | 2055.200.47 |
| 200mm | 4.4mm-5.1mm | 3.5mm | 65mm | 34 (K/W) | 2/9/110+2/9/100 | Selco | 2055.200.65 |
| 200mm | 4.4mm-5.1mm | 3.5mm | 80mm | 36 (K) | 2/14/110 | Gabbiani, SCM | 2055.200.80 |
| 200mm | 4.8mm-5.5mm | 3.5mm | 20mm | 36 (K) | | Schelling | 2055.200.21 |
| 200mm | 4.8mm-5.5mm | 3.5mm | 45mm | 36 (K/W) | | Holzma | 2055.200.46 |
| 200mm | 5.2mm-5.9mm | 3.5mm | 20mm | 36 (K/W) | | Schelling | 2055.200.22 |
| 200mm | 5.2mm-5.9mm | 3.5mm | 40mm | 36 (K) | | S.M.A | 2055.200.40 |
| 200mm | 5.8mm-6.5mm | 3.5mm | 45mm | 34 (K) | | Holzma | 2055.201.45 |
| 215mm | 4.4mm-5.1mm | 3.5mm | 50mm | 42 (K/W) | 3/15/80 | Giben, Prismatic | 2055.215.50 |
| 220mm | 6.4mm-7.4mm | 4.4mm | 20mm | 36 (K/W) | | Schelling | 2055.221.20 |
| 300mm | 4.4mm-5.1mm | 3.5mm | 50mm | 48 (K/W) | 3/15/80 | Giben, Prismatic | 2055.300.50 |
| 300mm | 4.4mm-5.1mm | 3.5mm | 65mm | 48 (K/W) | 2/9/100+2/9/110 | Selco EB70 | 2055.301.65 |
| 300mm | 4.4mm-5.1mm | 3.5mm | 65mm | 72 (K/W) | 2/9/100+2/9/110 | Selco | 2055.300.65 |
| 340mm | 5.0mm | 3.5mm | 45mm | 108 (W) | 3/14/65 | Holzma Postforming | 2055.342.45 |

DIAMOND-TIPPED PANEL SAW BLADES

7.2039/7.2052

PCD (polycrystalline diamond) cutting edges provide considerably longer tool life when machining extremely abrasive materials. Perfect fit when machining homogeneous materials such as MDF, particleboard, gypsum board, cement-fiber board, high pressure laminate, solid surface material, phenolic, FR-4, CFRP, and fiber-glass reinforced panels. **All custom size PCD saw blades have a six (6) week lead time.**

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Machine | Item# |
|-------|----------|-----------|----------|--------------------------|-----------|----------|---------------|
| 250mm | 3.2mm | 2.2mm | 30mm | 2/7/42+2/10/60 | 80 | | 7.2039.250.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 2/7/42+2/10/60 | 72 | | 7.2039.300.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 2/7/42+2/10/60 | 84 | | 7.2039.301.30 |
| 300mm | 3.2mm | 2.2mm | 30mm | 2/7/42+2/10/60 | 96 | | 7.2039.302.30 |
| 350mm | 4.4mm | 3.2mm | 60mm | 2/14/100 | 72 | Holzma | 7.2052.350.60 |
| 350mm | 4.4mm | 3.2mm | 80mm | 4/9/100+2/9/110+2/14/110 | 72 | Gabbiani | 7.2052.350.80 |
| 380mm | 4.8mm | 3.5mm | 60mm | 2/14/100+2/14/125 | 72 | Holzma | 7.2052.380.60 |
| 400mm | 4.4mm | 3.2mm | 80mm | 4/9/100+2/9/110+2/14/110 | 72 | Gabbiani | 7.2052.400.80 |
| 400mm | 4.4mm | 3.2mm | 80mm | 4/19/120+2/9/130 | 72 | Selco | 7.2052.400.81 |
| 450mm | 4.8mm | 3.5mm | 60mm | 2/17/100+2/14/125 | 72 | Holzma | 7.2052.451.60 |

DIAMOND-TIPPED SCORING SAW BLADES

7.2055

| D | Kerf (B) | Bore (d) | Pinholes | Teeth (Z) | Machine | Item# |
|-------|-------------|----------|-----------------|-----------|--------------------|---------------|
| 80mm | 2.8mm-3.6mm | 20mm | | 20 | Felder | 7.2055.080.20 |
| 100mm | 2.8mm-3.6mm | 22mm | | 24 | Striebig | 7.2055.100.22 |
| 120mm | 2.8mm-3.6mm | 50mm | | 24 | Altendorf (Rapido) | 7.2055.120.50 |
| 160mm | 4.4mm-5.3mm | 55mm | 3/7/66 | 36 | SCM/Gabbiani | 7.2055.160.55 |
| 180mm | 4.4mm-5.3mm | 45mm | | 36 | Holzma | 7.2055.180.46 |
| 180mm | 4.8mm-5.6mm | 45mm | | 36 | Holzma | 7.2055.180.45 |
| 200mm | 4.4mm-5.3mm | 45mm | | 36 | Holzma | 7.2055.200.47 |
| 200mm | 4.4mm-5.6mm | 65mm | 2/9/110+2/9/100 | 36 | Selco | 7.2055.200.65 |

DIAMOND-TIPPED CUT-OFF BLADES FOR CEMENT FIBER BOARD

2887

Custom sizes available upon request.

| D | Kerf (B) | Bore (d) | Teeth (Z) | Item# |
|--------|----------|----------|-----------|-------------|
| 7-1/4" | .094" | 5/8" | 10 | 2887.184.58 |
| 250mm | 2.6mm | 30mm | 16 | 2887.250.30 |
| 10" | .102" | 5/8" | 16 | 2887.250.58 |
| 300mm | 2.8mm | 30mm | 20 | 2887.300.30 |
| 12" | .110" | 1" | 20 | 2887.300.01 |

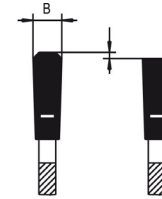


SOLID SURFACE/PLASTIC BLADES

2000S

Great option for chip free cut top and bottom for solid surface materials. Also suitable for cutting double-sided melamine and laminate panels. For use on radial arm and table saws. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|--------|----------|-----------|----------|------|-----------|-------------|
| 7-1/4" | .102" | .072" | 5/8" | 0° | 60 | 2000S185T60 |
| 8" | .106" | .072" | 5/8" | 0° | 60 | 2000S220T60 |
| 10" | .115" | .085" | 5/8" | -5° | 80 | 2000S250T80 |
| 10" | .115" | .085" | 5/8" | 0° | 80 | 2000S251T80 |
| 12" | .126" | .095" | 1" | -5° | 100 | 2000S300T10 |
| 12" | .126" | .095" | 1" | 0° | 100 | 2000S301T10 |
| 14" | .150" | .110" | 1" | -2° | 100 | 2000S350T10 |
| 16" | .150" | .110" | 1" | -2° | 120 | 2000S400T10 |



0.25mm

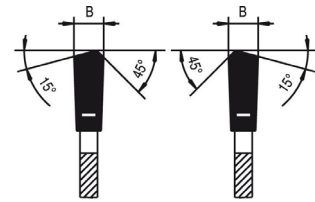
SOLID SURFACE/PLASTIC BLADES

2044

For clean cutting of homogeneous plastic panels, solid surface material, thermoplastics, phenolic resin, plexiglass, phenolic bonded paper sheets etc. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|------|----------|-----------|-------------|
| 250mm | 2.8mm | 2.0mm | 30mm | 0° | CNL | 80 | 2044.251.30 |
| 300mm | 3.0mm | 2.2mm | 30mm | 0° | CNL | 96 | 2044.300.30 |
| 350mm | 3.3mm | 2.5mm | 30mm | 0° | CNL | 108 | 2044.350.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60



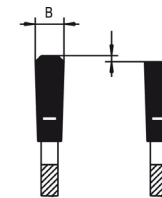
SOLID SURFACE/PLASTIC BLADES

2089

For clean cutting of thermoplastic panels (acrylics, polyethylene etc. up to 10mm thick; duropolastic panels, phenolic resin bonded panels up to 6mm thick). Also suitable for clean cutting of double sided plastic laminated panels, preferably with use of a scoring blade. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|------|----------|-----------|-------------|
| 160mm | 3.0mm | 2.0mm | 20mm | 10° | 2/6/32 | 36 | 2089.160.21 |
| 190mm | 3.0mm | 2.0mm | 30mm | 10° | 2/7/42 | 42 | 2089.190.31 |
| 216mm | 3.0mm | 2.0mm | 30mm | 10° | | 48 | 2089.216.31 |
| 225mm | 3.0mm | 2.0mm | 30mm | 10° | | 50 | 2089.225.31 |
| 250mm | 3.0mm | 2.0mm | 30mm | 10° | CNL | 56 | 2089.250.31 |
| 303mm | 3.2mm | 2.2mm | 30mm | 10° | CNL | 68 | 2089.303.31 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60



DIAMOND-TIPPED BLADE FOR SOLID SURFACE

7.2039

PCD (polycrystalline diamond) cutting edges provide considerably longer tool life when machining solid surface materials and provide an excellent finish.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-------|----------|-----------|----------|------|-----------|---------------|
| 220mm | 3.0mm | 2.0mm | 30mm | 0° | 64 | 7.2039N220T64 |
| 250mm | 3.0mm | 2.0mm | 30mm | 0° | 80 | 7.2039N250T80 |
| 300mm | 3.2mm | 2.2mm | 30mm | 0° | 96 | 7.2039N300T96 |



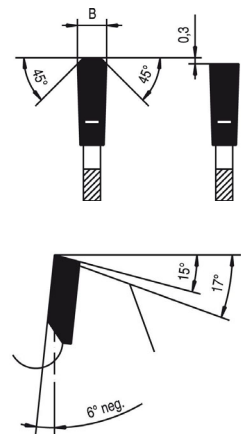
NON-FERROUS METAL/PLASTIC CUTTING BLADES

2085/2080

Both negative and positive hook tooth geometry blades available for sizing non-ferrous and plastic extrusion profiles and panels and sizing non-ferrous metal and sandwich panels. For use on Elu, Haffner, Baier, Fezer, Kaltenbach, Trennjaeger, Ulmia, Rapid, Graule, Eisele, DeWalt, Pfeiffer, Weidmann, Elumatec and others. Carbide-tipped.

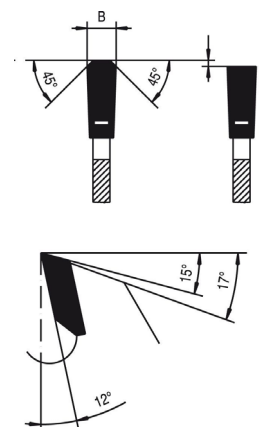
NEGATIVE HOOK TOOTH

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------------|-----------|------------------|
| 216mm | 2.8mm | 2.8mm | 30mm | | 48 | 2085.216.30 |
| 216mm | 2.8mm | 2.2mm | 30mm | | 64 | 2085.217.30 |
| 220mm | 2.8mm | 2.2mm | 30mm | KNL | 80 | 2085.221.30 |
| 250mm | 3.1mm | 2.4mm | 30mm | CNL | 60 | 2085.250.30 |
| 250mm | 3.1mm | 2.4mm | 30mm | CNL | 80 | 2185.251.31 (PP) |
| 250mm | 3.1mm | 2.4mm | 32mm | | 80 | 2185.251.32 |
| 300mm | 3.2mm | 2.6mm | 30mm | | 72 | 2085.300.30 |
| 300mm | 3.2mm | 2.6mm | 30mm | | 96 | 2185.301.31 (PP) |
| 300mm | 3.2mm | 2.6mm | 32mm | | 96 | 2085.301.32 |
| 300mm | 3.2mm | 2.6mm | 40mm | 4/12/64+2/9/55 | 72 | 2085.300.40 |
| 330mm | 3.4mm | 2.8mm | 30mm | | 84 | 2085.330.30 |
| 330mm | 3.4mm | 2.8mm | 30mm | | 100 | 2185.331.31 (PP) |
| 330mm | 3.4mm | 2.8mm | 32mm | | 100 | 2085.331.32 |
| 350mm | 3.6mm | 3.0mm | 30mm | | 84 | 2085.350.30 |
| 350mm | 3.6mm | 3.0mm | 30mm | | 108 | 2085.351.30 |
| 350mm | 3.5mm | 3.0mm | 30mm | | 108 | 2185.351.31 (PP) |
| 350mm | 3.6mm | 3.0mm | 40mm | 4/12/64+2/9/55 | 84 | 2085.350.40 |
| 350mm | 3.6mm | 3.0mm | 40mm | 4/12/64+2/9/55 | 108 | 2085.351.40 |
| 370mm | 3.6mm | 3.0mm | 30mm | | 90 | 2085.370.30 |
| 370mm | 3.6mm | 3.0mm | 50mm | 4/15/80 | 90 | 2085.370.50 |
| 380mm | 3.6mm | 3.0mm | 32mm | | 108 | 2085.381.32 |
| 400mm | 3.8mm | 3.2mm | 30mm | | 96 | 2085.400.30 |
| 400mm | 3.8mm | 3.2mm | 40mm | 4/12/64+2/9/55 | 96 | 2085.400.40 |
| 400mm | 3.8mm | 3.2mm | 50mm | 4/15/80 | 96 | 2085.401.50 |
| 420mm | 3.8mm | 3.2mm | 30mm | | 96 | 2085.420.30 |
| 420mm | 3.8mm | 3.2mm | 40mm | | 96 | 2085.420.40 |
| 450mm | 4.1mm | 3.5mm | 30mm | | 96 | 2085.450.30 |
| 500mm | 4.1mm | 3.5mm | 30mm | | 120 | 2085.501.30 |



POSITIVE HOOK TOOTH

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|------------------|
| 225mm | 2.5mm | 1.8mm | 30mm | | 68 | 2080.225.30 |
| 250mm | 3.4mm | 2.4mm | 30mm | 2/10/60 | 40 | 2080.252.30 |
| 250mm | 3.4mm | 2.4mm | 30mm | 2/10/60 | 60 | 2080.250.30 |
| 250mm | 3.4mm | 2.4mm | 30mm | 2/10/60 | 80 | 2080.251.30 |
| 300mm | 3.8mm | 2.8mm | 30mm | CNL | 72 | 2080.300.30 |
| 300mm | 3.8mm | 2.8mm | 30mm | CNL | 96 | 2080.301.30 |
| 350mm | 4.0mm | 3.0mm | 30mm | CNL | 60 | 2080.352.30 |
| 350mm | 4.0mm | 3.0mm | 30mm | CNL | 84 | 2080.350.30 |
| 350mm | 4.0mm | 3.0mm | 30mm | CNL | 96 | 2180.353.31 (PP) |
| 350mm | 4.0mm | 3.0mm | 30mm | CNL | 108 | 2080.351.30 |
| 400mm | 4.2mm | 3.2mm | 30mm | | 60 | 2080.401.30 |
| 400mm | 4.2mm | 3.2mm | 30mm | | 96 | 2080.400.30 |
| 420mm | 4.2mm | 3.2mm | 30mm | | 96 | 2080.420.30 |
| 500mm | 4.6mm | 3.5mm | 30mm | | 120 | 2080.501.30 |



CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/10/60 + 2/7/42

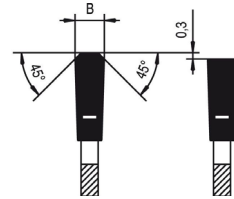
PP = Piano Plus Version is a special plate design for very quiet running blades.

NON-FERROUS METAL/PLASTIC CUTTING BLADES

2000N

For cutting aluminum and plastic extrusion profiles and panels on chop/miter saws and other special machines. The negative tooth shape prevents the gullets from filling up. Use coolant or lubricant and clamp the material firmly. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|--------|----------|-----------|----------|-----------------|-----------|-------------|
| 7-1/4" | .112" | .087" | 5/8" | -5° | 60 | 2000N185T60 |
| 10" | .126" | .102" | 5/8" | -5° | 60 | 2000N250T60 |
| 10" | .126" | .102" | 5/8" | -5° | 80 | 2000N250T80 |
| 10" | .126" | .102" | 5/8" | -5° | 100 | 2000N250T10 |
| 12" | .128" | .102" | 1" | -5° | 72 | 2000N300T72 |
| 12" | .128" | .102" | 1" | -5° | 80 | 2000N300T80 |
| 12" | .128" | .102" | 5/8" | -5° | 100 | 2000N300T10 |
| 12" | .128" | .102" | 1" | -5° | 100 | 2000N301T10 |
| 14" | .138" | .110" | 1" | -5° | 108 | 2000N350T18 |
| 14" | .150" | .126" | 5/8" | -2° (Pistorius) | 100 | 2000N350T10 |
| 15" | .120" | .098" | 1" | -2° (Hitachi) | 100 | 2000N380T10 |
| 16" | .150" | .126" | 1" | -2° | 100 | 2000N400T10 |
| 18" | .165" | .134" | 1" | -2° | 100 | 2000N450T10 |
| 20" | .174" | .134" | 1" | 0° | 100 | 2000N500T10 |
| 20" | .174" | .134" | 1" | 0° | 120 | 2000N500T12 |
| 20" | .174" | .134" | 1" | 0° | 140 | 2000N500T14 |



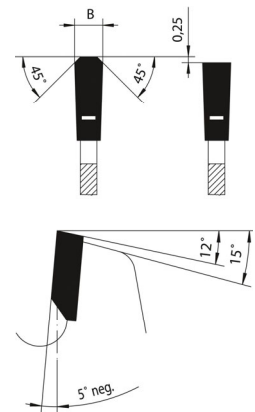
NON-FERROUS METAL/PLASTIC CUTTING BLADES

2286

For sizing non-ferrous and plastic extrusion profiles and panels and sizing non-ferrous metal panels. Universally suited for cutting a diverse variety of materials. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 150mm | 2.8mm | 2.2mm | 30mm | | 42 | 2286.150.30 |
| 160mm | 2.8mm | 2.2mm | 20mm | 2.6/32 | 42 | 2286.160.20 |
| 160mm | 2.8mm | 2.2mm | 30mm | 2/7/42 | 42 | 2286.160.30 |
| 170mm | 2.8mm | 2.2mm | 30mm | 2/7/42 | 48 | 2286.170.30 |
| 180mm | 2.8mm | 2.2mm | 20mm | 2/6/32 | 48 | 2286.180.20 |
| 190mm | 2.8mm | 2.2mm | 30mm | 2/7/42 | 54 | 2286.190.30 |
| 200mm | 2.8mm | 2.2mm | 30mm | 2/7/42 | 54 | 2286.200.30 |
| 210mm | 2.8mm | 2.2mm | 30mm | 2/7/42 | 54 | 2286.210.30 |
| 216mm | 2.8mm | 2.2mm | 30mm | | 60 | 2286.216.30 |
| 230mm | 2.8mm | 2.2mm | 30mm | 2/7/42 | 64 | 2286.230.30 |
| 250mm | 3.2mm | 2.4mm | 30mm | CNL | 80 | 2286.250.30 |
| 260mm | 2.4mm | 1.8mm | 30mm | CNL | 68 | 2286.260.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

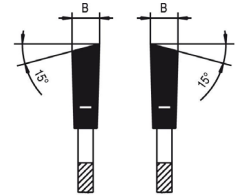


MITRE SAW BLADES

2000M

For clean cuts on wood mouldings and framing, designed to help prevent kickback. Negative hook. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|-----------------|-----------|-------------|
| 10" | .110" | .080" | 5/8" | -2° | 60 | 2000M250A60 |
| 10" | .102" | .072" | 5/8" | 0° | 80 | 2000M251A80 |
| 10" | .102" | .072" | 5/8" | -5° | 80 | 2000M250A80 |
| 12" | .110" | .080" | 1" | 0° | 60 | 2000M300A60 |
| 12" | .110" | .080" | 1" | 0° | 80 | 2000M300A80 |
| 12" | .122" | .095" | 1" | 0° | 80 | 2000M301A80 |
| 12" | .128" | .098" | 5/8" | -5° | 100 | 2000M300A10 |
| 12" | .128" | .098" | 1" | -5° | 100 | 2000M301A10 |
| 12" | .128" | .098" | 5/8" | 0° | 100 | 2000M302A10 |
| 14" | .150" | .120" | 5/8" | -5° (Pistorius) | 100 | 2000M350A10 |
| 15" | .120" | .098" | 1" | -2° (Hitachi) | 100 | 2000M380A10 |

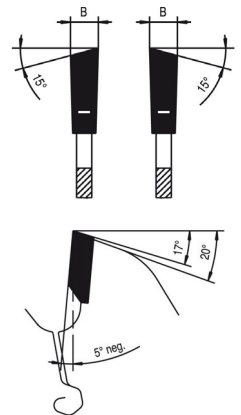


RADIAL ARM SAW BLADES

2109

For cross grain cutting both seasoned and unseasoned hard and softwood. Alternate top bevel grind, 5° negative hook. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|----------|-------------|
| 210mm | 2.8mm | 1.8mm | 30mm | 34 | 2/7/42 | 2109.210.30 |
| 216mm | 2.8mm | 1.8mm | 30mm | 36 | | 2109.216.30 |
| 216mm | 2.8mm | 1.8mm | 30mm | 48 | | 2109.217.30 |
| 216mm | 2.8mm | 1.8mm | 30mm | 64 | | 2109.218.30 |
| 250mm | 3.0mm | 2.0mm | 30mm | 42 | CNL | 2109.250.30 |
| 260mm | 3.2mm | 2.2mm | 30mm | 48 | 1/7/44 | 2109.260.30 |
| 260mm | 2.5mm | 1.8mm | 30mm | 48 | | 2109.261.30 |
| 260mm | 3.2mm | 2.2mm | 30mm | 60 | 1/7/44 | 2109.260.31 |
| 305mm | 3.2mm | 2.2mm | 30mm | 48 | CNL | 2109.305.30 |
| 305mm | 3.2mm | 2.2mm | 30mm | 60 | CNL | 2109.305.31 |
| 350mm | 3.6mm | 2.2mm | 30mm | 42 | CNL | 2109.350.31 |
| 400mm | 3.9mm | 2.5mm | 30mm | 48 | CNL | 2109.400.31 |
| 420mm | 4.2mm | 2.8mm | 30mm | 54 | 2/10/60 | 2109.420.31 |
| 420mm | 4.2mm | 2.8mm | 40mm | 54 | | 2109.420.41 |
| 450mm | 4.2mm | 2.8mm | 30mm | 54 | CNL | 2109.450.31 |
| 500mm | 4.4mm | 3.0mm | 30mm | 60 | CNL | 2109.500.31 |
| 520mm | 4.6mm | 3.2mm | 50mm | 60 | | 2109.520.51 |
| 550mm | 4.8mm | 3.4mm | 30mm | 64 | 2/10/60 | 2109.550.31 |
| 600mm | 5.2mm | 3.8mm | 30mm | 72 | 2/10/60 | 2109.600.31 |



CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

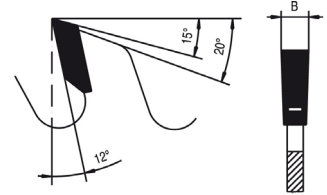
PP = Piano Plus Version is a special plate design for very quiet running blades.

RADIAL ARM SAW BLADES

2033

For scoring (on the underside) double-sided coated panels on double-end tenoners. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Hook | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|------|-----------------|-------------|
| 150mm | 3.2mm | 2.0mm | 30mm | 36 | 12° | 4/6/48+4/5.5/52 | 2033.150.30 |
| 200mm | 3.2mm | 2.0mm | 30mm | 48 | 12° | | 2033.200.30 |

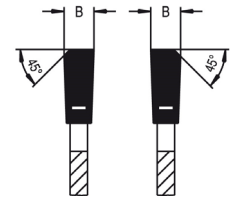


CONSTRUCTION SITE SAW BLADES

2000T

For all materials used on construction sites, such as wood with nails, staples, concrete residues, clips and similar unexpected inclusions. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 10" | .126" | .087" | 5/8" | -5° | 20 | 2000.250T20 |
| 12" | .126" | .087" | 1" | -5° | 24 | 2000.300T24 |
| 14" | .137" | .098" | 1" | -5° | 28 | 2000.350T28 |
| 18" | .165" | .110" | 1" | -5° | 36 | 2000.450T36 |

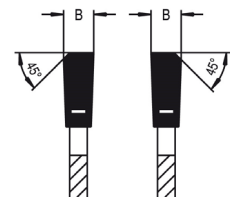


CONSTRUCTION SITE SAW BLADES

2301

For universal cutting applications on construction sites. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 300mm | 3.4mm | 2.2mm | 30mm | CNL | 20 | 2301.300.30 |
| 315mm | 3.4mm | 2.2mm | 30mm | 2/7/42 | 20 | 2301.315.30 |
| 350mm | 3.6mm | 2.5mm | 30mm | CNL | 24 | 2301.350.30 |
| 400mm | 3.6mm | 2.5mm | 30mm | CNL | 28 | 2301.400.30 |
| 450mm | 3.8mm | 2.6mm | 30mm | CNL | 32 | 2301.450.30 |
| 500mm | 4.4mm | 2.8mm | 30mm | CNL | 36 | 2301.500.30 |



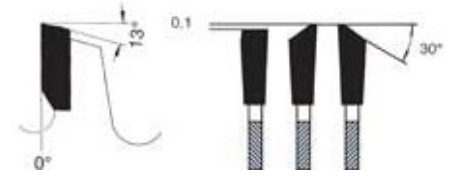
CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

STEEL CUTTING SAW BLADES

2000S

For dry cutting of mild steel (S237), metal clad pieces such as sandwich panels, cable ducts, sheet metal, brass and copper. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 8" | 2.2mm | 1.8mm | 1" | 0° | 40 | 2000S220A40 |
| 10" | 2.4mm | 2.0mm | 1" | 0° | 48 | 2000S250A48 |
| 12" | 2.4mm | 2.0mm | 1" | 0° | 60 | 2000S300A60 |
| 12" | 2.7mm | 2.4mm | 1" | 0° | 84 | 2000S300A84 |
| 14" | 2.8mm | 2.5mm | 1" | 0° | 84 | 2000S350A84 |
| 14" | 2.8mm | 2.5mm | 1" | 0° | 102 | 2000S350A12 |

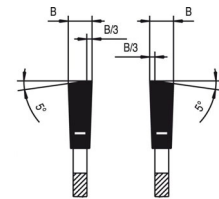


STEEL CUTTING SAW BLADES

2049

For cutting steel, cast and sheet steel (non-vanadium), copper, aluminum, brass and rigid plastics. For use on Jepson dry cutter. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 305mm | 2.2mm | 1.85mm | 1" | | 60 | 2049.305.25 |
| 305mm | 2.2mm | 1.85mm | 1" | | 80 | 2049.306.25 |
| 305mm | 2.2mm | 1.85mm | 30mm | CNL | 80 | 2049.306.30 |
| 355mm | 2.5mm | 2.15mm | 1" | | 80 | 2049.356.25 |

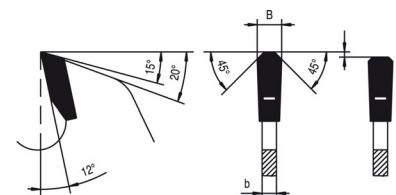


STEEL CUTTING SAW BLADES

2048

For sizing rigid foam and wood-based panels with a thin sheet steel layer on one or both sides. Smaller diameter blades 160-230mm can be used on portable and small table saws. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 160mm | 2.8mm | 1.8mm | 20mm | 2/6/32 | 42 | 2048.161.20 |
| 190mm | 2.8mm | 1.8mm | 30mm | 2/7/42 | 56 | 2048.191.30 |
| 210mm | 2.8mm | 1.8mm | 30mm | 2/7/42 | 60 | 2048.210.30 |
| 230mm | 3.2mm | 2.2mm | 30mm | 2/7/42 | 64 | 2048.231.30 |
| 300mm | 3.4mm | 2.4mm | 30mm | | 60 | 2048.300.30 |
| 350mm | 4.2mm | 3.0mm | 30mm | | 72 | 2048.350.30 |
| 410mm | 3.0mm | 2.5mm | 30mm | CNL | 84 | 2048.410.30 |
| 500mm | 4.2mm | 3.0mm | 30mm | | 96 | 2048.500.30 |
| 500mm | 4.2mm | 3.2mm | 110mm | | 100 | 2048.500.10 |
| 550mm | 4.2mm | 3.2mm | 110mm | | 100 | 2048.550.10 |
| 660mm | 4.2mm | 3.0mm | 30mm | | 108 | 2048.660.30 |



CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

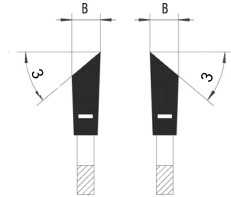
LAMINATE BLADES—HI ANGLE ATB

For cutting double-sided laminated panels (without using a scoring blade) and avoid tear-out on the bottom exit cut. High angle, ATB. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|--------|----------|-----------|----------|------|-----------|-------------|
| 10" | .126" | .087" | 5/8" | -5° | 80 | 2000N250A80 |
| 12" | .126" | .087" | 30mm | -5° | 96 | 2000N300A96 |
| 12" | .126" | .087" | 1" | -5° | 96 | 2000N301A96 |
| 14" | .148" | .118" | 1" | -2° | 100 | 2000N350A10 |
| 220mm* | 3.2mm | 2.2mm | 30mm | -5° | 64 | 2000N220A64 |

* for Holz-Her

2000N



LAMINATE BLADES—HI ANGLE ATB

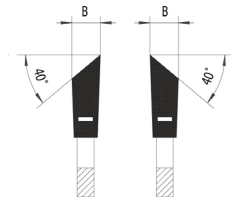
For cleanest cut in laminated panels, cross and miter cuts in solid wood, MDF, chipboard plywood, glued laminate, veneers and beading. 40° high angle, (35° on the 160/190mm diameter), 5° positive hook. ATB. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 160mm | 3.0mm | 2.2mm | 20mm | 2/6/32 | 54 | 2195.160.21 |
| 190mm | 3.0mm | 2.2mm | 30mm | | 60 | 2195.190.31 |
| 216mm | 2.9mm | 2.0mm | 30mm | | 60 | 2195.216.31 |
| 225mm | 2.8mm | 2.0mm | 30mm | | 68 | 2195.225.31 |
| 250mm | 3.2mm | 2.2mm | 30mm | CNL | 76 | 2195.250.31 |
| 303mm | 3.2mm | 2.2mm | 30mm | CNL | 90 | 2195.303.31 |
| 350mm | 3.5mm | 2.5mm | 30mm | CNL | 96 | 2195.350.31 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

PP = Piano Plus Version is a special plate design for very quiet running blades.

2195



LAMINATE BLADES—HI ANGLE ATB

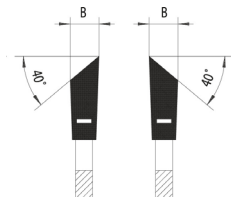
For cutting thicker panels, 20mm-80mm (3/4"-3"), cross and miter cuts in solid wood, plywood, double-sided laminated panels, glued up panels, foil and paper coated panels and also light-weight sandwich panels. 40° high angle (35° on the 160/190mm diameter), 5° positive hook. ATB. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 250mm | 3.0mm | 2.0mm | 30mm | CNL | 46 | 2196.250.30 |
| 303mm | 3.2mm | 2.2mm | 30mm | CNL | 56 | 2196.303.30 |
| 350mm | 3.5mm | 2.4mm | 30mm | CNL | 56 | 2196.350.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

PP = Piano Plus Version is a special plate design for very quiet running blades.

2196



LAMINATE BLADES—HOLLOW FACE

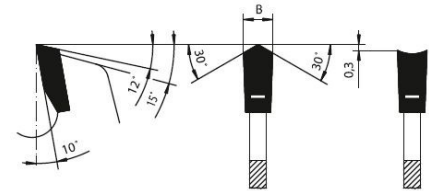
2037

Excellent finish cutting double-sided laminated panels (without using a scoring blade) and prevention of tear-out on the bottom exit cut. Hollow-face sawblades require special sharpening to maintain the excellent finish quality. Tooth must be face ground with a grinding pin every time the blade is sharpened. For use on sliding table saws and vertical panel saws. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|------------------|
| 220mm | 3.2mm | 2.2mm | 30mm | 2/7/42 | 42 | 2037.220.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | CNL | 48 | 2037.250.30 |
| 303mm | 3.2mm | 2.2mm | 30mm | CNL | 60 | 2037.300.30 |
| 303mm | 3.2mm | 2.2mm | 30mm | CNL | 60 | 2137.303.31 (PP) |
| 303mm | 2.9mm | 2.0mm | 30mm | CNL | 72 | 2137.303.33 (PP) |
| 350mm | 3.5mm | 2.5mm | 30mm | CNL | 72 | 2037.350.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

PP = Piano Plus Version is a special plate design for very quiet running blades.



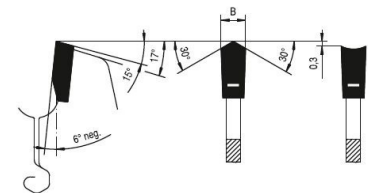
LAMINATE BLADES—HOLLOW FACE

2138

Same application as Series 2037 above, except **negative hook** design. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 250mm | 3.2mm | 2.2mm | 30mm | CNL | 48 | 2138.250.31 |
| 303mm | 3.2mm | 2.2mm | 30mm | CNL | 60 | 2138.303.31 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60



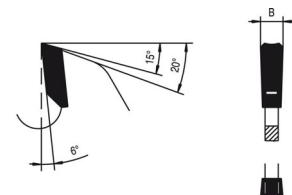
LAMINATE BLADES—HOLLOW FACE

2041

Same application as Series 2037, except modified/alternative hollow face design with more teeth. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Pinholes | Teeth (Z) | Item# |
|-------|----------|-----------|----------|----------|-----------|-------------|
| 160mm | 2.9mm | 2.0mm | 20mm | 2/6/32 | 36 | 2041.160.20 |
| 300mm | 2.9mm | 2.0mm | 30mm | CNL | 72 | 2141.300.31 |
| 303mm | 3.2mm | 2.2mm | 30mm | CNL | 56 | 2141.303.31 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

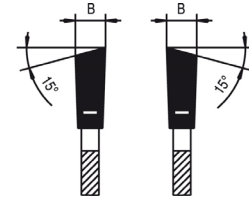


THIN KERF SAW BLADES

2000T

Designed to minimize cutting waste when sizing exotic and expensive wood and other materials. ATB grind for cutting solid wood, plywood, and veneers. TCG for cutting plastic, PVC, and plexiglass. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 8" | .090" | .063" | 5/8" | 10° | 60 ATB | 2000T220A60 |
| 8" | .090" | .063" | 5/8" | 10° | 60 TCG | 2000T220T60 |
| 10" | .098" | .071" | 5/8" | 20° | 24 ATB | 2000T250A24 |
| 10" | .090" | .063" | 5/8" | 15° | 40 ATB | 2000T250A40 |
| 10" | .090" | .063" | 5/8" | 5° | 80 ATB | 2000T250A80 |
| 10" | .090" | .063" | 5/8" | 5° | 80 TCG | 2000T250T80 |
| 12" | .090" | .063" | 1" | 5° | 100 ATB | 2000T300A10 |
| 12" | .090" | .063" | 1" | 5° | 100 TCG | 2000T300T10 |

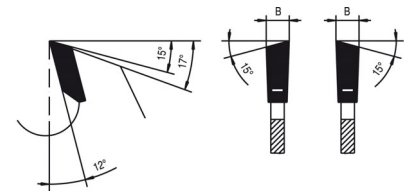


THIN KERF SAW BLADES

2025-2027

For ripping exotic and expensive solid wood and books of veneers. 15° hook, ATB grind. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Hook | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|------|----------|-------------|
| 150mm | 2.0mm | 1.2mm | 30mm | 24 | 15° | | 2025.150.30 |
| 180mm | 2.0mm | 1.3mm | 30mm | 30 | 15° | | 2025.180.30 |
| 200mm | 2.0mm | 1.35mm | 30mm | 34 | 15° | | 2025.200.30 |
| 200mm | 2.0mm | 1.35mm | 30mm | 64 | 12° | | 2027.200.30 |
| 250mm | 2.1mm | 1.6mm | 30mm | 42 | 15° | CNL | 2025.250.30 |
| 250mm | 2.1mm | 1.6mm | 30mm | 80 | 12° | CNL | 2027.250.30 |
| 300mm | 2.2mm | 1.6mm | 30mm | 48 | 15° | CNL | 2025.300.30 |
| 300mm | 2.2mm | 1.6mm | 30mm | 96 | 12° | CNL | 2027.300.30 |
| 350mm | 2.4mm | 1.6mm | 30mm | 54 | 15° | CNL | 2025.350.30 |
| 350mm | 2.4mm | 1.6mm | 30mm | 108 | 12° | CNL | 2027.350.30 |



CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

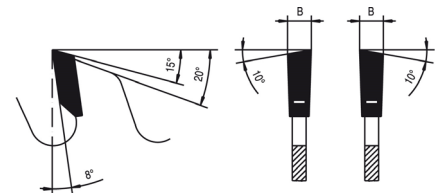
THIN KERF SAW BLADES

2028

For clean cutting of thin-wall plastic and aluminum profiles, phenolic resin bonded paper, and cork. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Hook | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|------|----------|-------------|
| 200mm | 2.2mm | 1.6mm | 30mm | 80 | 8° | | 2028.200.30 |
| 250mm | 2.2mm | 1.6mm | 30mm | 100 | 8° | CNL | 2028.250.30 |
| 300mm | 2.2mm | 1.6mm | 30mm | 120 | 8° | CNL | 2028.300.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60



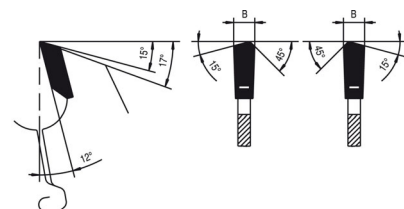
THIN KERF SAW BLADES

2030

For clean cutting of homogeneous plastic panels, laminate, plexiglass, phenolic resin bonded paper, phenolic laminated cotton fiber panels, phenolic resin impregnated paper etc. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Hook | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|------|----------|-------------|
| 250mm | 2.1mm | 1.6mm | 30mm | 80 | 12° | CNL | 2030.250.30 |
| 300mm | 2.2mm | 1.6mm | 30mm | 96 | 12° | CNL | 2030.300.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

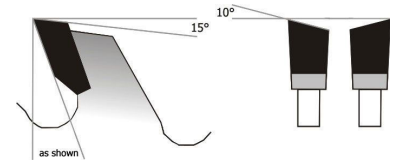


RIP SAW BLADES (FOR TABLE SAWS)

2000R

For ripping and cross cutting solid wood and panels on table saws. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 10" | .126" | .087" | 5/8" | 20° | 24 | 2000R250A24 |
| 12" | .126" | .087" | 1" | 20° | 28 | 2000R300A28 |
| 14" | .138" | .098" | 1" | 20° | 32 | 2000R350A32 |

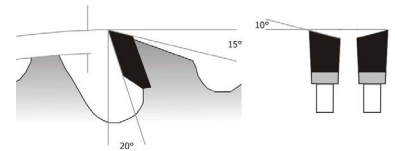


RIP SAW BLADES (FOR TABLE SAWS)

2000RAA

For ripping and cross cutting solid wood and panels on table saws. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|--------------|
| 10" | .126" | .087" | 5/8" | 20° | 24 | 2000RA250A24 |
| 12" | .126" | .087" | 1" | 20° | 28 | 2000RA300A28 |
| 14" | .138" | .098" | 1" | 20° | 32 | 2000RA350A32 |

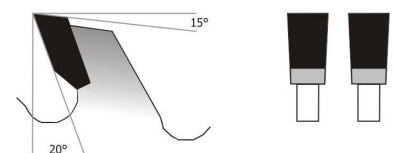


RIP SAW BLADES (HEAVY DUTY)

2000RF

For heavy-duty ripping hard and softwoods. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 10" | .145" | .095" | 5/8" | 20° | 24 | 2000R250F24 |
| 12" | .160" | .110" | 1" | 20° | 28 | 2000R300F28 |
| 14" | .170" | .120" | 1" | 20° | 32 | 2000R350F32 |
| 16" | .170" | .120" | 1" | 20° | 36 | 2000R400F36 |
| 18" | .184" | .134" | 1" | 20° | 40 | 2000R450F40 |

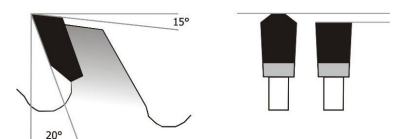


GLUE LINE RIP BLADES

2000G

Provides cleanest cutting requirements for glue line applications in hard/soft woods. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-------|----------|-----------|----------|------|-----------|-------------|
| 10" | .145" | .095" | 5/8" | 20° | 30 | 2000G250T30 |
| 12" | .150" | .110" | 3-1/8" | 20°* | 36 | 2000G300T36 |
| 12" | .160" | .110" | 1" | 20° | 36 | 2000G301T36 |
| 12" | .150" | .110" | 3-1/8" | 20°* | 36 | 2000G302T36 |
| 12" | .160" | .110" | 3-1/8" | 20°* | 36 | 2000G304T36 |
| 14" | .170" | .120" | 1" | 20° | 40 | 2000G350T40 |
| 14" | .169" | .120" | 2" | 20°+ | 36 | 2000G350T36 |
| 16" | .170" | .120" | 1" | 20° | 36 | 2000G400T36 |
| 300mm | 4.2mm | 2.8mm | 70mm | 20°^ | 36 | 2000G303T36 |



* For Mereen Johnson with keyway 1/4" x 1/4" round style + two keyways 1/2" x 1/4"

+ For Diehl machine with pinhole 9/16" on 5" bolt circle

^ For European brand rip saws with 20mm x 5mm double keyway

RIP SAW BLADES (SLIDING TABLE SAWS)

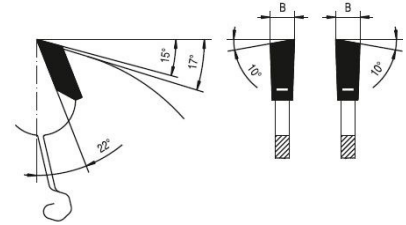
2104

For ripping and cross cutting solid wood on sliding table saws. Also suitable for trimming panel products with single-sided laminate or veneer. Alternate top bevel grind, 22° positive hook. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Item# |
|-------|----------|-----------|----------|-----------|-------------|
| 250mm | 3.2mm | 2.2mm | 30mm | 24 | 2104.250.31 |
| 300mm | 3.2mm | 2.2mm | 30mm | 28 | 2104.300.31 |
| 350mm | 3.5mm | 2.4mm | 30mm | 34 | 2104.350.31 |
| 400mm | 4.0mm | 2.8mm | 30mm | 36 | 2104.400.31 |
| 450mm | 4.2mm | 3.0mm | 30mm | 40 | 2104.450.31 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

PP = Piano Plus Version is a special plate design for very quiet running blades.



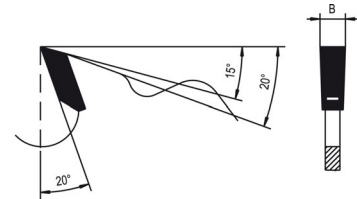
RIP SAW BLADES

2001

For ripping solid hard- and softwood. Flat tooth grind with 20° hook and chip limiter design. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|----------|-------------|
| 250mm | 3.2mm | 2.2mm | 30mm | 12 | CNL | 2001.250.30 |
| 300mm | 3.4mm | 2.2mm | 30mm | 12 | CNL | 2001.300.30 |
| 315mm | 3.4mm | 2.2mm | 30mm | 12 | CNL | 2001.315.30 |
| 350mm | 3.8mm | 2.5mm | 30mm | 10 | CNL | 2001.351.30 |
| 350mm | 3.8mm | 2.5mm | 30mm | 16 | CNL | 2001.350.30 |
| 400mm | 4.1mm | 2.8mm | 30mm | 12 | CNL | 2001.401.30 |
| 400mm | 3.8mm | 2.5mm | 30mm | 18 | CNL | 2001.400.30 |
| 450mm | 4.2mm | 2.8mm | 30mm | 20 | CNL | 2001.450.30 |
| 500mm | 4.5mm | 3.0mm | 30mm | 22 | CNL | 2001.500.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60



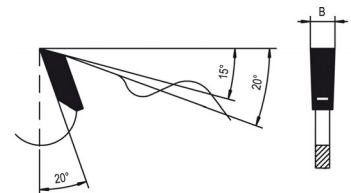
RIP SAW BLADES

2002

For ripping and occasional cross-cutting of solid hard- and softwood. Flat tooth grind with 20° hook and chip limiter design. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|----------|-------------|
| 300mm | 3.4mm | 2.2mm | 30mm | 20 | CNL | 2002.300.30 |
| 350mm | 3.7mm | 2.5mm | 30mm | 24 | CNL | 2002.350.30 |
| 400mm | 4.0mm | 2.8mm | 30mm | 28 | CNL | 2002.400.30 |
| 450mm | 4.0mm | 2.8mm | 30mm | 32 | CNL | 2002.450.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60



RIP SAW BLADES

2003

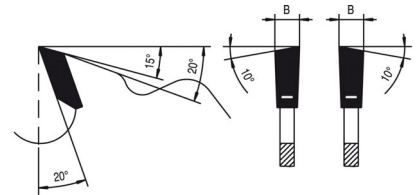
For ripping and cross cutting solid hard and softwood. Also suitable for sizing single-sided veneered or plastic coated panels. Alternate top bevel grind with 20° hook and chip limiter design. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Item# |
|--------|----------|-----------|----------|-----------|----------|-------------|
| 240mm | 3.2mm | 2.2mm | 30mm | 24 | 2/7/42 | 2003.240.30 |
| 250mm | 3.2mm | 2.2mm | 30mm | 24 | CNL | 2003.250.30 |
| 270mm | 3.2mm | 2.2mm | 30mm | 24 | | 2003.270.30 |
| 280mm | 3.4mm | 2.2mm | 30mm | 28 | CNL | 2003.280.30 |
| 300mm | 3.4mm | 2.2mm | 30mm | 28 | CNL | 2003.300.30 |
| 315mm | 3.4mm | 2.2mm | 30mm | 28 | CNL | 2003.315.30 |
| 350mm | 3.7mm | 2.5mm | 30mm | 32 | CNL | 2003.350.30 |
| 355mm | 3.7mm | 2.5mm | 30mm | 32 | CNL | 2003.355.30 |
| 400mm | 4.0mm | 2.8mm | 30mm | 36 | CNL | 2003.400.30 |
| 450mm* | 4.0mm | 2.0mm | 30mm | 40 | CNL | 2003.450.30 |
| 500mm | 4.0mm | 2.8mm | 30mm | 44 | CNL | 2003.500.30 |
| 550mm | 4.6mm | 3.2mm | 30mm | 48 | KNL | 2003.550.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

KNL = Combination Pinholes 2/7/42 + 2/10/60

* with cooling slots



RIP SAW BLADES

2005

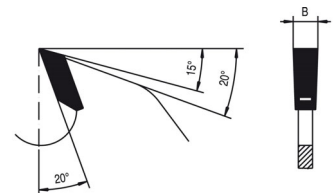
For ripping unseasoned solid hard- and softwood. Use on bench saws and gang rip saws. Flat top grind with 20° hook and chip limiter design. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Item# |
|--------|----------|-----------|----------|-----------|----------|-------------|
| 250mm | 3.2mm | 2.0mm | 30mm | 18 | CNL | 2005.250.30 |
| 300mm | 3.5mm | 2.2mm | 30mm | 20 | CNL | 2005.300.30 |
| 300mm | 3.5mm | 2.2mm | 70mm | 20 | DKN20x6 | 2005.300.70 |
| 400mm | 4.2mm | 2.8mm | 30mm | 28 | CNL | 2005.400.30 |
| 450mm* | 4.2mm | 2.8mm | 30mm | 32 | CNL | 2005.450.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60

DKN = double keyway

* with cooling slots



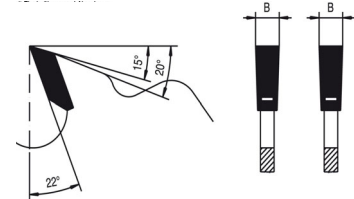
RIP SAW BLADES

2007

For ripping and cross cutting hard and softwood. For use on panel sizing saws. Flat top or alternate top grind (as specified) with 22° hook, four interior wiper/raker teeth, and chip limiter design. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Item# |
|-------|----------|-----------|----------|-----------|----------|-------------|
| 300mm | 3.2mm | 2.2mm | 30mm | 18 Flat | CNL | 2007.300.30 |
| 350mm | 3.6mm | 2.5mm | 30mm | 20 Flat | CNL | 2007.350.30 |
| 400mm | 4.0mm | 2.8mm | 30mm | 24 Flat | CNL | 2007.400.30 |

CNL = Combination Pinholes 2/7/42 + 2/9/46.4 + 2/10/60



RIP SAW BLADES

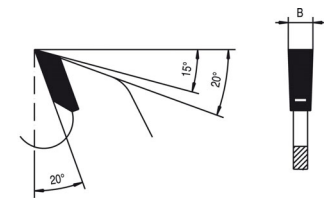
2012

For ripping solid hardwood. Flat grind with 20° hook and chip limiter design. For SCM rip saw. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Teeth (Z) | Pinholes | Item# |
|--------|----------|-----------|----------|-----------|----------|-------------|
| 300mm* | 3.2mm | 2.2mm | 70mm | 24 | DKN20x6 | 2012.301.70 |

DKN = double keyway

* with cooling slots

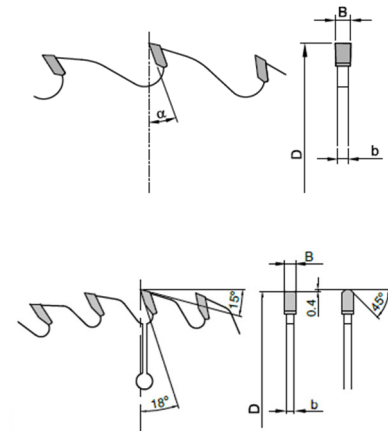


RIP SAW BLADES FOR RAIMANN

2015

Rip saw blades specifically for Raimann rip saws. For ripping soft and hard woods. Arbor with required keyways and pinholes. Carbide-tipped.

| D | Kerf (B) | Bore (d) | Teeth (Z) | Hook | Grind | Item# |
|-----------------------------|----------|----------|-----------|------|-------|-------------|
| General Ripping | | | | | | |
| 300mm | 3.4mm | 80mm | 28 | 20° | Flat | 2015.300.80 |
| 300mm | 3.2mm | 80mm | 36 | 20° | ATB | 2015.301.80 |
| 350mm | 3.6mm | 80mm | 30 | 20° | Flat | 2015.350.80 |
| Glue Line Ripping | | | | | | |
| 300mm | 4.0mm | 80mm | 28 | 18° | TCG | 2015.302.80 |
| 300mm | 2.8mm | 80mm | 48 | 18° | TCG | 2015.303.80 |
| 300mm | 4.0mm | 80mm | 48 | 18° | TCG | 2015.304.80 |
| Shoulder Cut Ripping | | | | | | |
| 300mm | 5.6mm | 80mm | 24 | 25° | Flat | 2015.305.80 |

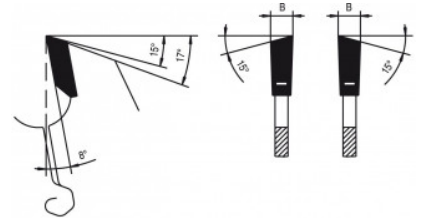


OPTIMIZING SAW BLADES

2018

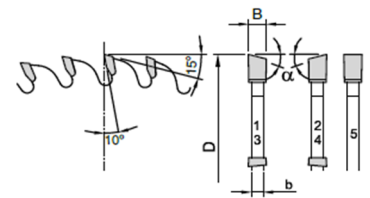
Optimizing saw blades for cross cutting/optimizing saws. Alternate top bevel grind. Carbide-tipped.

| D | Kerf (B) | Bore (d) | Teeth (Z) | Pinholes | Machine | Item# |
|-------|----------|----------|-----------|--------------------|-----------------|--------------|
| 400mm | 3.5mm | 30mm | 120 | 2/11/60 | Dimter | 2018.400.30F |
| 450mm | 3.9mm | 30mm | 102 | 2/11/60 | Dimter | 2018.450.30F |
| 450mm | 4.8mm | 30mm | 138 | 2/11/60 + 2/8/63.5 | Tiger Stop | 2018.450.30F |
| 500mm | 4.8mm | 30mm | 144 | 2/11/60 + 2/15/63 | Grecon 704 | 2018.500.30F |
| 500mm | 4.8mm | 35mm | 144 | 2/11/60 + 2/15/63 | Dimter S30, S50 | 2018.500.35F |
| 520mm | 4.6mm | 30mm | 144 | 2/11/60 + 2/15/63 | Dimter | 2018.520.30F |
| 600mm | 5.4mm | 30mm | 172 | 2/11/60 | Dimter | 2018.600.30F |
| 630mm | 5.4mm | 30mm | 180 | 2/11/60 | Dimter | 2018.630.30F |



Optimizing saw blades for cross cutting/optimizing saws. Alternate bevel/flat grind. Carbide-tipped.

| D | Kerf (B) | Bore (d) | Teeth (Z) | Pinholes | Machine | Item# |
|-------|----------|----------|-----------|----------|---------|--------------|
| 400mm | 3.0mm | 30mm | 125 | 2/11/60 | Dimter | 2018.401.30F |
| 450mm | 4.4mm | 30mm | 140 | 2/11/60 | Paul | 2018.451.30F |

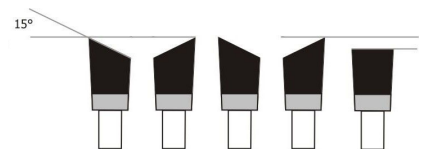


COMBINATION SAW BLADES

2000C

This blade is designed for ripping and cross cutting in solid wood, plywood, and composite panels. Best choice for an all around blade for a variety of materials. Carbide-tipped.

| D | Kerf (B) | Plate (b) | Bore (d) | Hook | Teeth (Z) | Item# |
|-----|----------|-----------|----------|------|-----------|-------------|
| 10" | .126" | .087" | 5/8" | 15° | 50 | 2000.250C50 |
| 12" | .150" | .110" | 1" | 15° | 60 | 2000.300C60 |
| 14" | .155" | .110" | 1" | 15° | 70 | 2000.350C70 |
| 16" | .165" | .120" | 1" | 15° | 80 | 2000.400C80 |



STACKABLE DADO BLADE SET

2500

Standard dado set consists of RH and LH saws as well as four flat top chippers and shims that allow fine width adjustment. Clean cutting for both rip and cross cut. Carbide-tipped.

| D | Kerf (B) | Bore (d) | Teeth (Z) | Item# |
|-----|----------------|----------|-----------|-------------|
| 8" | 1/8" to 13/16" | 5/8" | 40 | 2500.240.10 |
| 10" | 1/8" to 13/16" | 5/8" | 40 | 2500.250.10 |



GROOVING BLADES

3008

Flat top grind for grooving wood or panel products. Carbide-tipped. **Also available in polycrystalline diamond (PCD) for longer tool life. Maximum RPM: 12,000 for 100mm diameter; 10,000 for 125mm diameter; 8,000 for 150mm diameter.**

| D | B | d | # of Teeth | Item# |
|-------|-------|------|------------|-------------|
| 100mm | 2mm | 20mm | 6 | 3008.100.20 |
| 100mm | 3mm | 20mm | 6 | 3008.100.30 |
| 100mm | 4mm | 20mm | 6 | 3008.100.40 |
| 100mm | 5mm | 20mm | 6 | 3008.100.50 |
| 100mm | 6mm | 20mm | 6 | 3008.100.60 |
| 100mm | 7mm | 20mm | 6 | 3008.100.70 |
| 100mm | 7mm | 30mm | 6 | 3008.101.70 |
| 100mm | 8mm | 20mm | 6 | 3008.100.80 |
| 120mm | 4mm | 35mm | 30 | 3008.120.40 |
| 125mm | 2mm | 30mm | 12 | 3008.125.20 |
| 125mm | 2.5mm | 30mm | 12 | 3008.125.25 |
| 125mm | 3mm | 30mm | 12 | 3008.125.30 |
| 125mm | 4mm | 30mm | 12 | 3008.125.40 |
| 125mm | 5mm | 30mm | 12 | 3008.125.50 |
| 125mm | 6mm | 30mm | 12 | 3008.125.60 |
| 125mm | 7mm | 30mm | 12 | 3008.125.70 |
| 125mm | 8mm | 30mm | 12 | 3008.125.80 |
| 125mm | 10mm | 30mm | 12 | 3008.125.10 |
| 150mm | 2.5mm | 30mm | 12 | 3008.150.25 |
| 150mm | 3mm | 30mm | 12 | 3008.150.30 |
| 150mm | 3.5mm | 30mm | 12 | 3008.150.35 |
| 150mm | 4mm | 30mm | 12 | 3008.150.40 |
| 150mm | 5mm | 30mm | 12 | 3008.150.50 |
| 150mm | 6mm | 30mm | 12 | 3008.150.60 |
| 150mm | 8mm | 30mm | 12 | 3008.150.80 |
| 150mm | 10mm | 30mm | 12 | 3008.150.10 |
| 180mm | 4mm | 30mm | 42 | 3008.180.40 |



GROOVING BLADES

3009

Grooving blades, designed for mechanical feed. Thinner blades, (1.5mm-2.5mm kerf) are limited to a grooving depth of 20mm due to the blades center hub reinforcement. Carbide-tipped. **Recommended RPM: 5,000-8,000 for 150mm diameter; 4,500-7,000 for 180mm diameter.**

| D | B | d | # of Teeth | Item# |
|-------|-------|------|------------|-------------|
| 150mm | 1.5mm | 30mm | 18 | 3009.150.15 |
| 150mm | 2.0mm | 30mm | 18 | 3009.150.20 |
| 150mm | 2.5mm | 30mm | 18 | 3009.150.25 |
| 150mm | 3.0mm | 30mm | 18 | 3009.150.30 |
| 150mm | 3.5mm | 30mm | 18 | 3009.150.35 |
| 150mm | 4.0mm | 30mm | 18 | 3009.150.40 |
| 150mm | 5.0mm | 30mm | 18 | 3009.150.50 |
| 150mm | 6.0mm | 30mm | 18 | 3009.150.60 |
| 150mm | 7.0mm | 30mm | 18 | 3009.150.70 |
| 150mm | 8.0mm | 30mm | 18 | 3009.150.80 |
| 150mm | 10mm | 30mm | 18 | 3009.150.01 |
| 180mm | 4.0mm | 30mm | 18 | 3009.180.40 |
| 180mm | 5.0mm | 30mm | 18 | 3009.180.50 |
| 180mm | 6.0mm | 30mm | 18 | 3009.180.60 |
| 180mm | 8.0mm | 30mm | 18 | 3009.180.80 |
| 180mm | 10mm | 30mm | 18 | 3009.180.01 |



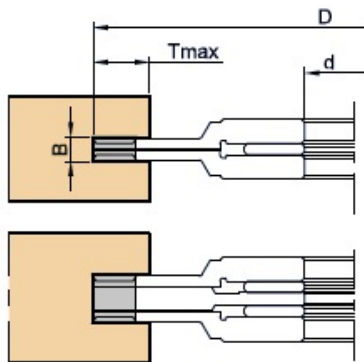
ADJUSTABLE INSERT GROOVING CUTTER

4538/4546

This grooving cutter, which is designed with very economical solid carbide insert knives, can accommodate a range of kerf widths by adding or removing the precision spacers (0.1mm increments) which are included with the tool. Excellent for use on hard and softwoods cutting with and cross grain. Also suitable for use on wood composites, plywood, etc. The tool body is steel construction.

| D | Kerf (B) | Bore (d) | Z | V | T-max | Item# |
|-------|-------------|----------|---|---|-------|-------------|
| 160mm | 4mm-7.5mm | Specify | 8 | 4 | 32mm | 4538.160.75 |
| 160mm | 4mm-15mm | Specify | 8 | 4 | 32mm | 4538.160.15 |
| 160mm | 8mm-15mm | Specify | 4 | 4 | 32mm | 4546.160.15 |
| 160mm | 12.6mm-24mm | Specify | 4 | 4 | 32mm | 4546.160.24 |
| 180mm | 4mm-7.5mm | Specify | 8 | 4 | 38mm | 4538.180.75 |
| 180mm | 4mm-15mm | Specify | 8 | 4 | 38mm | 4538.180.15 |
| 180mm | 8mm-15mm | Specify | 4 | 4 | 38mm | 4546.180.15 |
| 180mm | 12.6mm-24mm | Specify | 4 | 4 | 38mm | 4546.180.24 |

Replacement Inserts: Item# 4200.008.00 (7.5mm x 12mm x 1.5mm, B=4mm-15mm)
 Item# 4200.018.20 (18mm x 18mm x 1.95mm, B=4mm-7.5mm)
 Item# 4200.014.12 (14mm x 14mm x 1.2mm spur, B=4mm-6mm)



4538



4546

INSERT GROOVING CUTTER

4518/4551

This grooving cutter design has a fixed grooving width and uses economical solid carbide insert knives to produce precision groove cuts. Excellent for use on hard and softwoods cutting with and cross grain. Also suitable for use on wood composites, plywood, etc. The tool body is steel construction.

| D | Kerf (B) | Bore (d) | Z | V | T-max | Item# |
|-------|----------|----------|---|---|-------|-------------|
| 120mm | 4mm | Specify | 4 | 4 | 27mm | 4551.120.04 |
| 120mm | 5mm | Specify | 4 | 4 | 27mm | 4551.120.05 |
| 120mm | 6mm | Specify | 4 | 4 | 27mm | 4551.120.06 |
| 140mm | 4mm | Specify | 4 | 4 | 32mm | 4551.140.04 |
| 140mm | 5mm | Specify | 4 | 4 | 32mm | 4551.140.05 |
| 140mm | 6mm | Specify | 4 | 4 | 32mm | 4551.140.06 |
| 140mm | 8mm | Specify | 4 | 4 | 32mm | 4518.140.08 |
| 140mm | 10mm | Specify | 4 | 4 | 32mm | 4518.140.10 |
| 140mm | 12mm | Specify | 4 | 4 | 32mm | 4518.140.12 |
| 140mm | 15mm | Specify | 4 | 4 | 32mm | 4518.140.15 |

Replacement Inserts: Item# 4200.018.20 (18mm x 18mm x 1.95mm, B=4mm)
 Item# 4200.018.25 (18mm x 18mm x 2.45mm, B=5mm)
 Item# 4200.018.30 (18mm x 18mm x 2.95mm, B=6mm)
 Item# 4200.008.00 (7.5mm x 12mm x 1.5mm, B=8mm)
 Item# 4200.096.00 (9.5mm x 12mm x 1.5mm, B=10mm)
 Item# 4200.116.00 (11.6mm x 12mm x 1.5mm, B=12mm)
 Item# 4200.146.00 (14.6mm x 12mm x 1.5mm, B=15mm)
 Item# 4200.014.12 (14mm x 14mm x 1.2mm spur, B=4mm-6mm)
 Item# 4200.014.04 (14mm x 14mm x 2mm spur, B=8mm-5mm)



4551



4518

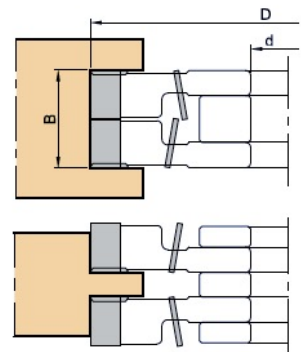
ADJUSTABLE REBATE CUTTER

4530

Adjustable insert groove and rebate cutter suitable for use on solid wood (hard and softwoods) as well as other wood composite materials such as particleboard and MDF. Cutter body is steel construction and utilizes reversible, solid carbide insert knives (which guarantee constant cutting diameter and accuracy of cut). Exceptionally cost-efficient in operation. This tool features an opposite shear angle design to provide superior surface finish quality. The cutting width is adjustable by 0.1mm increments by adding or removing spacers that are supplied with the tool. This tool is a four wing design with two spur knives top and bottom for clean, inside corners.

| D | Kerf (B) | Bore (d) | Z | V | T-max | Item# |
|-------|------------|----------|---|---|-------|-------------|
| 160mm | 16mm-30mm | Specify | 4 | 4 | 37mm | 4530.160.30 |
| 160mm | 21mm-40mm | Specify | 4 | 4 | 37mm | 4530.160.40 |
| 160mm | 31mm-60mm | Specify | 4 | 4 | 37mm | 4530.160.60 |
| 160mm | 51mm-100mm | Specify | 4 | 4 | 37mm | 4530.160.10 |

Replacement Inserts: Item# 4200.015.00 (15mm x 12mm x 1.5mm, B=16mm-30mm)
 Item# 4200.020.00 (20mm x 12mm x 1.5mm, B=21mm-40mm)
 Item# 4200.030.00 (30mm x 12mm x 1.5mm, B=31mm-60mm)
 Item# 4200.050.00 (50mm x 12mm x 1.5mm, B=51mm-100mm)
 Item# 4200.014.04 (14mm x 14mm x 2mm spur, all sizes)



JOINTING AND REBATING CUTTER

4513/4536

Insert jointing and rebate cutter suitable for solid wood and wood composite materials. The tool body is steel, and it features reversible, solid carbide insert knives for very economical machining. Two spurs on the top and bottom assure clean inside corners on rebate cuts. **Helping to improve surface finish on materials that are more challenging to get a clean edge, 4513 cutting edges are positioned axial straight, while 4536 has an opposite shear effect.** Available in two (2) and four (4) wing style.

| D | Kerf (B) | Bore (d) | Z | V | RPM | Item# |
|-------|----------|----------|---|---|--------------|-------------|
| 100mm | 50mm | Specify | 2 | 4 | 7,800-13,300 | 4513.100.50 |
| 100mm | 50mm | Specify | 4 | 4 | 7,800-13,300 | 4513.100.51 |
| 125mm | 30mm | Specify | 2 | 4 | 6,200-10,600 | 4513.125.30 |
| 125mm | 30mm | Specify | 4 | 4 | 6,200-10,600 | 4513.125.31 |
| 125mm | 50mm | Specify | 2 | 4 | 6,200-10,600 | 4513.125.50 |
| 125mm | 50mm | Specify | 4 | 4 | 6,200-10,600 | 4513.125.51 |
| 125mm | 60mm | Specify | 2 | 4 | 6,200-10,600 | 4513.125.60 |
| 125mm | 50mm | Specify | 4 | 4 | 6,200-10,600 | 4536.125.50 |
| 140mm | 50mm | Specify | 4 | 4 | 5,500-9,500 | 4536.140.50 |
| 147mm | 50mm | 40mm | 4 | 4 | 5,200-9,000 | 4536.147.50 |

Replacement Inserts: Item# 4200.030.00 (30mm x 12mm x 1.5mm, B=30mm)
 Item# 4200.050.00 (50mm x 12mm x 1.5mm, B=50mm)
 Item# 4200.014.04 (14mm x 14mm x 2mm spur, all sizes)



4513



4536

JOINTING/PLANING CUTTER

4505

Stackable insert jointing/planing cutter suitable for machining solid wood (hard and softwood) as well as other wood composite boards. For use on moulders and shapers. Steel body construction and reversible solid carbide insert knives make this a very economical tool to run in production. Suitable for manual or automatic feed machines. When stacking tools, they are secured via locking pins to prevent spinning on the shaft. Perfect for S4S machining.

| D | Kerf (B) | Bore (d) | RPM | Z | Item# |
|-------|----------|----------|--------------|---|-------------|
| 80mm | 50mm | 45mm | 9,600-16,000 | 4 | 4505.080.50 |
| 100mm | 30mm | Specify | 7,800-13,300 | 4 | 4505.100.30 |
| 100mm | 50mm | Specify | 7,800-13,300 | 4 | 4505.100.50 |
| 125mm | 30mm | Specify | 6,200-10,600 | 4 | 4505.125.30 |
| 125mm | 50mm | Specify | 6,200-10,600 | 4 | 4505.125.50 |
| 125mm | 60mm | Specify | 6,200-10,600 | 4 | 4505.125.60 |
| 125mm | 80mm | Specify | 6,200-10,600 | 4 | 4505.125.80 |

Replacement Inserts:
 Item# 4200.030.00 (30mm x 12mm x 1.5mm, B=30mm)
 Item# 4200.050.00 (50mm x 12mm x 1.5mm, B=50mm)
 Item# 4200.060.00 (60mm x 12mm x 1.5mm, B=60mm)
 Item# 4200.080.00 (80mm x 13mm x 2.2mm, B=80mm)



JOINTING/PLANING CUTTER WITH SHEAR

4535

Insert jointing/planing cutter suitable for machining solid wood (hard and softwood) as well as other wood composite boards, particularly those where surface finish is critical. The opposite shear design of this tool provides a clean, compression style cut to deliver excellent finish quality on both sides of laminated panels. For use on moulders and shapers. Steel body construction and reversible solid carbide insert knives make this a very economical tool to run in production. Suitable for manual or automatic feed machines. Cutter features a double keyway. Perfect for S4S machining.

| D | Kerf (B) | Bore (d) | RPM | Z | Item# |
|-------|----------|----------|--------------|-----|-------------|
| 100mm | 56mm | 30mm | 7,800-13,300 | 3+3 | 4535.100.56 |
| 125mm | 56mm | Specify | 6,200-10,600 | 3+3 | 4535.125.56 |
| 150mm | 56mm | Specify | 5,200-8,900 | 3+3 | 4535.150.56 |
| 180mm | 56mm | Specify | 4,300-7,400 | 3+3 | 4535.180.56 |

Replacement Inserts: Item# 4200.030.00 (30mm x 12mm x 1.5mm)



LAMELLO BISCUIT JOINT CUTTER

3020

Grooving cutter for biscuit joiners in soft and hardwood. Provides excellent finish cutting both with grain and cross grain in soft and hardwoods. For production of door frames, picture frames and other miter joint connections. Solid carbide replacement insert design provides very economical use in production. See page 56 for Item# 6374 Shank Adapter to use on CNC machines.

| D | Kerf (B) | Bore (d) | Z | V | Pinholes | Item# |
|-------|----------|----------|---|---|----------|-------------|
| 100mm | 3.97mm | 22mm | 4 | 4 | 4/4.5/36 | 3020.100.22 |

Replacement Inserts: Item# 4200.018.20 (18mm x 18mm x 1.95mm)
Item# 4200.014.12 (14mm x 14mm x 1.2mm spur)



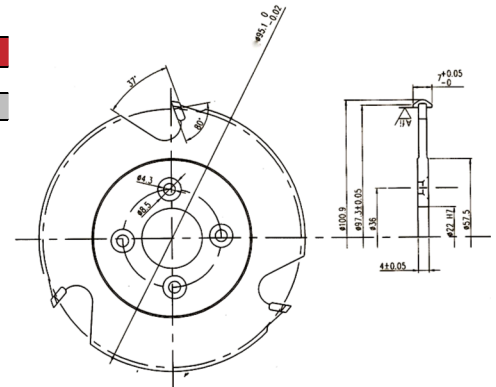
GROOVING BLADE FOR CLAMEX CONNECTORS

7828

PCD tipped grooving blade for Lamello-Clamex system on CNC machining centers and angled aggregate heads.

| D | B (mm) | D (mm) | Pinholes | Item# |
|---------|--------|--------|----------|------------------|
| 100.4mm | 7.0 | 22 | 4/4.5/36 | 7828.100.107.22* |
| 100.4mm | 7.0 | 30 | 4/6.5/48 | 7828.100.107.30 |

* for Lamello Zeta P2 Joiner



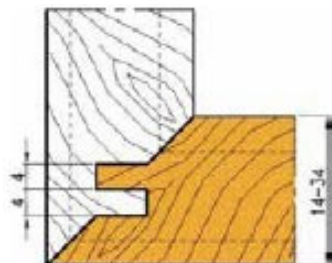
MITER JOINT CUTTER

4534

Insert glue joint cutter for use in hard and softwoods cutting with and cross grain. Also suitable for other wood composite panel products. Tool body is steel construction, and profile solid carbide insert knives provide constant profile accuracy and perfect match. Suitable for both manual and automatic feed machines.

| D | Kerf (B) | Bore (d) | RPM | Z | Groove | Item# |
|-------|----------|----------|-------------|---|--------|-------------|
| 180mm | 35mm | Specify | 4,300-7,400 | 2 | 2 | 4534.180.35 |

Replacement Inserts: Item# 4768.601 (50mm x 12mm x 1.5mm)



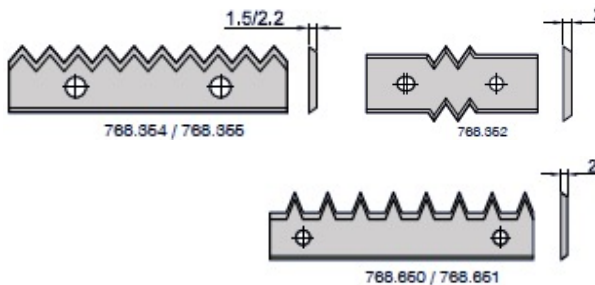
GLUE JOINT CUTTER

4532

Insert glue joint cutter for use in hard and softwoods cutting with the grain. Tool body is steel construction, and profile, solid carbide insert knives provide constant profile accuracy and perfect match. Suitable for both manual and automatic feed machines.

| No. | D | Kerf (B) | Bore (d) | RPM | Z | Item# |
|-----|-------|----------|----------|------------|---|-------------|
| 1 | 125mm | 50mm | Specify | 6200-10600 | 2 | 4532.125.50 |
| 1 | 125mm | 50mm | Specify | 6200-10600 | 3 | 4532.125.51 |
| 2 | 125mm | 80mm | Specify | 6200-10600 | 3 | 4532.125.80 |
| 3 | 125mm | 50mm | Specify | 6200-10600 | 3 | 4532.125.52 |
| 4 | 125mm | 80mm | Specify | 6200-10600 | 3 | 4532.125.81 |

Replacement Inserts:
 Item# 4768.354 (50mm x 12mm x 1.5mm, No. 1)
 Item# 4768.355 (80mm x 13mm x 2.2mm, No. 2)
 Item# 4768.352 (50mm x 22mm x 2mm, No. 3)
 Item# 4768.650 (80mm x 20mm x 2mm, No. 4)
 Item# 4768.651 (80mm x 20mm x 2mm, No. 4)



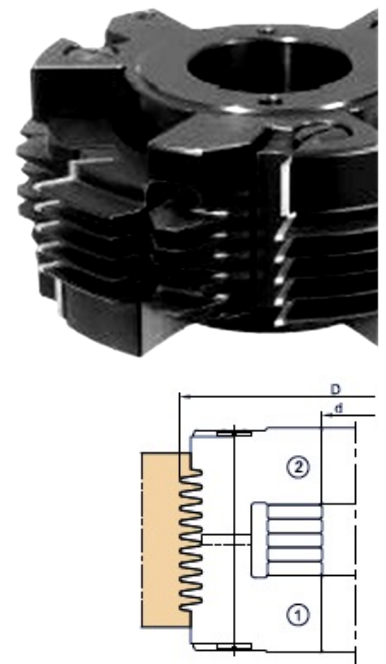
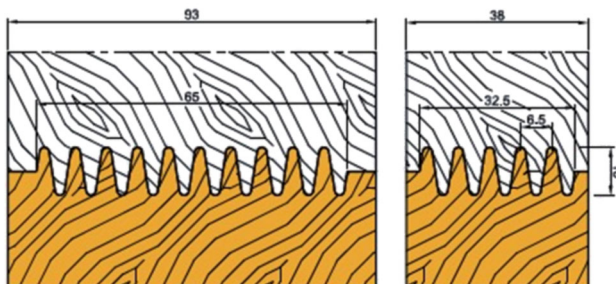
ADJUSTABLE GLUE JOINT CUTTER

4594

Insert glue joint cutter for use in hard and softwoods cutting cross grain. Tool body is steel construction, and profile, solid carbide insert knives provide constant profile accuracy and perfect match. Suitable for both manual and automatic feed machines.

| D | Kerf (B) | Bore (d) | RPM | Z | Item# |
|-------|----------|----------|-------------|---|-------------|
| 160mm | 100mm | Specify | 4,800-8,300 | 3 | 4594.160.10 |

Replacement Inserts:
 Item# 4768.403 (50mm x 25mm x 2mm, 1)
 Item# 4768.404 (50mm x 25mm x 2mm, 2)



EDGE CHAMFERING/CORNER ROUNDING CUTTER

4524

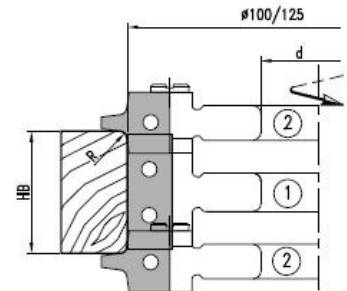
This adjustable jointing, chamfering, and round over cutter head is suitable for use on soft and hardwood, and cutting either with or cross grain. The tool body is constructed of steel. Available with top and bottom optional chamfering (7mm x 45°) or radius round-over insert knives in a variety of radius sizes shown below. Offers great versatility in edge machining.

| No. | D | B | d | Z | Item# |
|-----|-------|------|---------|---|-------------|
| 1 | 100mm | 30mm | Specify | 2 | 4524.100.30 |
| 1 | 100mm | 50mm | Specify | 2 | 4524.100.50 |
| 2 | 113mm | 16mm | Specify | 2 | 4524.113.16 |
| 1 | 125mm | 30mm | Specify | 3 | 4524.125.30 |
| 1 | 125mm | 50mm | Specify | 3 | 4524.125.50 |
| 2 | 137mm | 16mm | Specify | 3 | 4524.137.16 |
| 2 | 146mm | 25mm | Specify | 3 | 4524.146.25 |



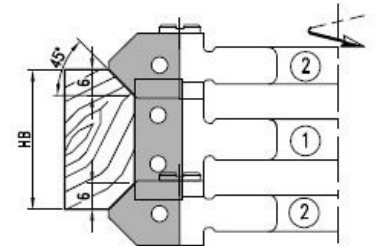
RADIUS/ANGLE OF INSERT

| No. | B | Radius/Bevel | HB min-max | Item# |
|-----|------|--------------|------------|----------|
| 1 | 30mm | R2-6/45° | 14mm-33mm | 4703.009 |
| 1 | 30mm | R8-10/45° | 21mm-44mm | 4703.010 |
| 2 | 50mm | R2-6/45° | 18mm-53mm | 4703.015 |
| 2 | 50mm | R8-10/45° | 25mm-64mm | 4703.012 |



REPLACEMENT SPARE PARTS

| Insert | Item# |
|----------|-------------|
| 30mm | 4200.030.00 |
| 50mm | 4200.050.00 |
| R2 | 4765.101 |
| R3 | 4765.102 |
| R4 | 4765.103 |
| R5 | 4765.104 |
| R6 | 4765.105 |
| R8 | 4765.107 |
| R10 | 4765.109 |
| 7 x 45° | 4765.501 |
| 10 x 45° | 4765.502 |



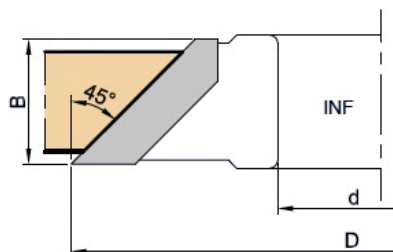
EDGE CHAMFERING CUTTER

4544

This chamfering cutter is suitable for use on soft and hardwoods, cutting either with or cross grain. It can also be used on wood composites such as MDF, plywood, and particleboard.

| D | W | B | # of Wings | Item# |
|-------|------|---------|------------|-------------|
| 175mm | 50mm | Specify | 4 | 4544.175.50 |

Replacement Inserts: Item# 4200.050.00 (50mm x 12mm x 1.5mm)



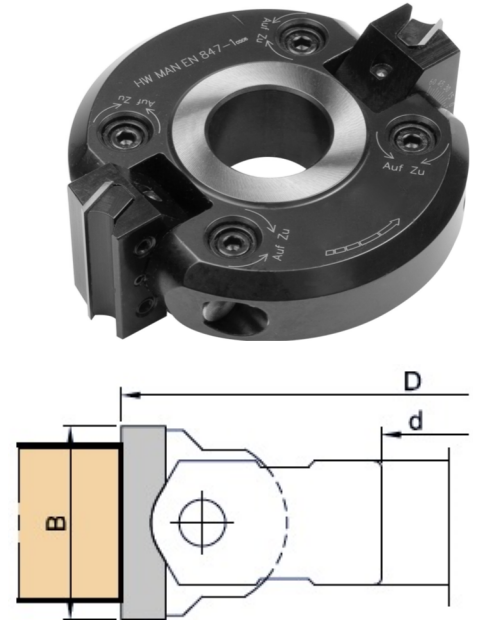
VARI-ANGLE INSERT CUTTER

4510

This adjustable angle jointing/chamfering insert cutter is suitable for cutting soft and hardwoods either with or cross grain. Steel or aluminum body construction (M) with two and three wing design (Z), featuring reversible solid carbide cutting edges. Exceptionally economical production tool. Available in various diameters, cut lengths (Kerf) and varying increments of adjustment capability (I) and maximum adjustment options ranging from 45°-90°(T).

| D | D max | Kerf | Bore (d) | Z | I | T | M | RPM min-max | Item# |
|-------|-------|------|----------|---|------|-----|---|-------------|-------------|
| 110mm | 127mm | 40mm | Specify | 2 | 7.5° | 45° | S | 7,000-9,000 | 4510.110.30 |
| 120mm | 137mm | 40mm | Specify | 2 | 7.5° | 45° | A | 6,400-8,500 | 4510.120.30 |
| 130mm | 155mm | 50mm | Specify | 2 | 7.5° | 67° | S | 5,000-8,500 | 4510.130.50 |
| 140mm | 163mm | 50mm | Specify | 2 | 1° | 60° | S | 5,500-7,500 | 4510.140.50 |
| 150mm | 173mm | 50mm | Specify | 2 | 7.5° | 90° | S | 5,100-7,400 | 4510.150.50 |
| 160mm | 183mm | 50mm | Specify | 2 | INF | 90° | A | 4,800-6,000 | 4510.160.50 |
| 170mm | 193mm | 50mm | Specify | 2 | 1° | 60° | S | 4,500-6,000 | 4510.170.50 |
| 170mm | 193mm | 60mm | Specify | 2 | INF | 90° | A | 4,500-6,000 | 4510.170.60 |
| 170mm | 218mm | 80mm | Specify | 3 | 1° | 60° | S | 4,500-6,000 | 4510.170.80 |

Replacement Inserts:
 Item# 4200.040.00 (40mm x 12mm x 1.5mm, for Kerf=40mm)
 Item# 4200.050.00 (50mm x 12mm x 1.5mm, for Kerf=50mm)
 Item# 4200.060.00 (60mm x 12mm x 1.5mm, for Kerf=60mm)
 Item# 4200.080.00 (80mm x 13mm x 2.2mm, for Kerf=80mm)



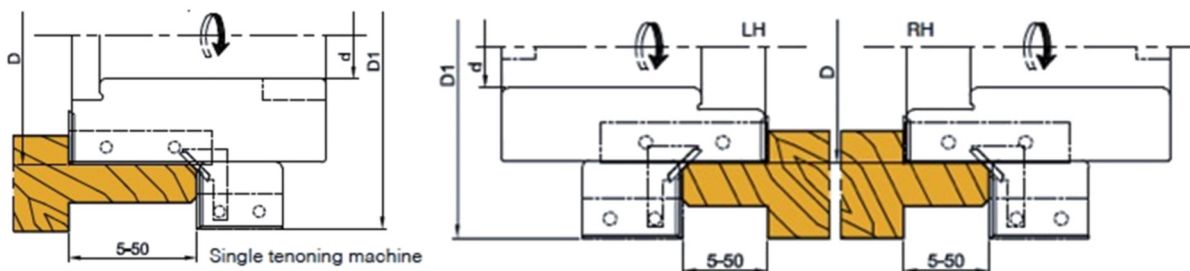
TENON INSERT CUTTER

4560

This insert tenon cutter features a steel body designed with reversible, solid carbide insert knives and four-sided, solid carbide spurs. Constant cutting diameter and cutting height (as well as very economical operational cost) is provided by incorporating standard inserts into the design of this tool. The tenon length can be adjusted from 5mm to 50mm. For use on single and double end tenoners such as Bacci, Greda, Pade, Balestrini, etc.

| D | D1 | B | Bore (d) | Z | V | RPM max | Item# |
|------|-------|-----------|----------|-----|-----|---------|-------------|
| 60mm | 80mm | 10mm-35mm | 25mm | 3/6 | 3/6 | 11,600 | 4560.060.35 |
| 70mm | 115mm | 5mm-50mm | 25mm | 3/6 | 3/6 | 11,600 | 4560.070.50 |
| 90mm | 135mm | 5mm-50mm | 30mm | 3/6 | 3/6 | 10,200 | 4560.090.50 |

Replacement Inserts:
 Item# 4200.030.00 (30mm x 12mm x 1.5mm)
 Item# 4200.050.00 (50mm x 12mm x 1.5mm)
 Item# 4200.014.04 (14mm x 14mm x 2mm)



COPE AND STICK, RAISED PANEL CUTTER FOR SHAPERS

4520/4529

Multi-profile, precision steel tool bodies offer five (5) profile options each for cope/stick and raised panel production of solid wood cabinet doors on shapers. These cutters use solid carbide replacement insert knives to produce high quality, consistent dimensions, constant diameter parts for cabinet door assembly. Manufactured in accordance with European Safety Standards. These cutters were designed to fill a need for insert cabinet door tooling after LRH Enterprises ceased operations, duplicating and retaining LRH profile numbers per below. **Recommended RPM: 4,800-8,300.**

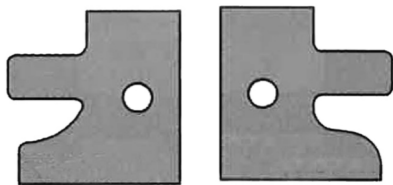


| Description | D | B | d | Z | Item# |
|---------------------|------|----|--------|---|-------------|
| Cope Cutter | 4" | 1" | 1-1/4" | 3 | 4520.100.01 |
| Stick Cutter | 4" | 1" | 1-1/4" | 3 | 4520.100.02 |
| Raised Panel Cutter | 6.5" | 1" | 1-1/4" | 3 | 4529.100.00 |

INSERTS FOR LRH CUTTER

KI SERIES

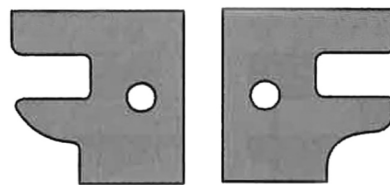
KI-Stick-FD



KI-48-S

KI-752-S

KI-Cope-FD



KI-48-C

KI-752-C

Raised Panel Cutters



KI-1037



KI-1042



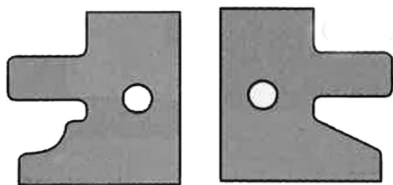
KI-1044



KI-1039

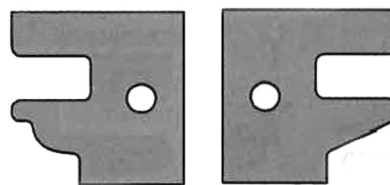


KI-1043



KI-49-S

KI-54-S

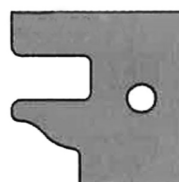


KI-49-C

KI-54-C



KI-750-S



KI-750-C

COPE AND STICK PROFILE INSERT TOOLS

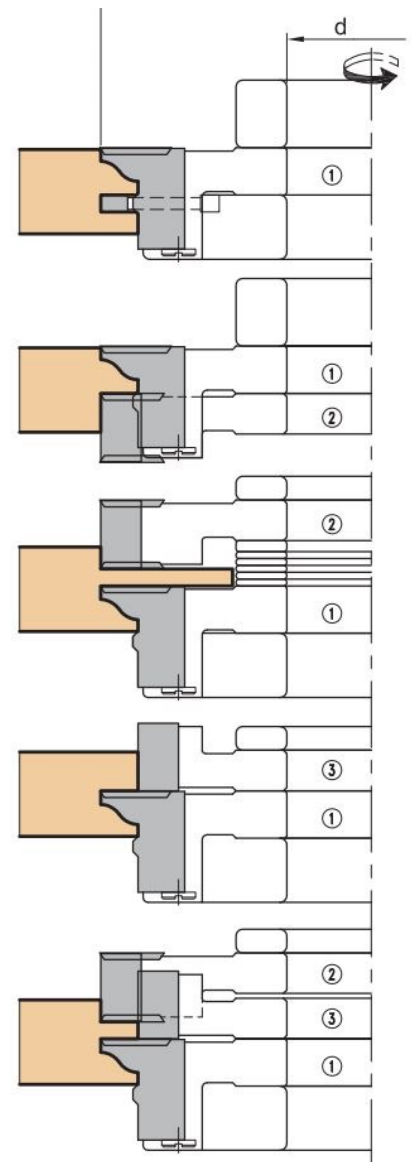
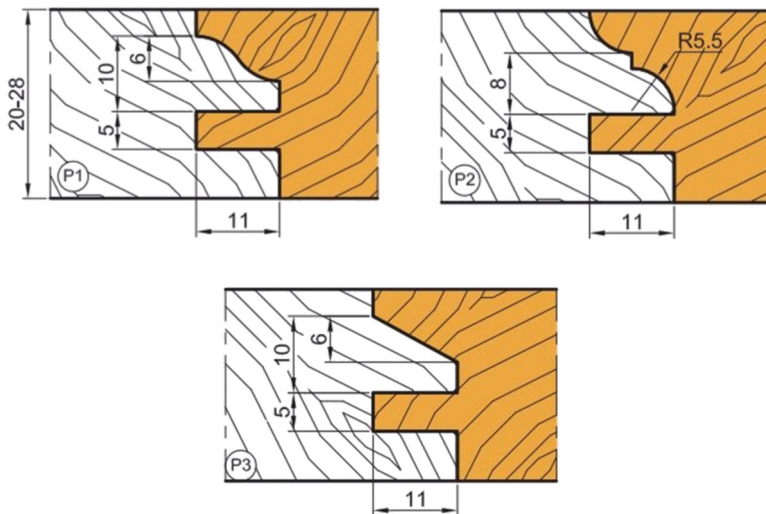
4520

Multiple tool body cutter sets provide three different cope and stick (stile and rail) cabinet door profiles by utilizing solid carbide reversible insert knives. Excellent finish when cutting with or cross grain solid wood. Tool body is steel construction, and insert design provides constant cutting diameter and exact profile match with every setup. Standard profiles are shown below, but we also manufacture these tooling sets to meet customer's exact specification of diameter, bore and, profile detail.
Maximum RPM: 4,800-8,300.

For use on moulders, shapers, etc., these cutters can also be supplied on a CNC arbor adapter (sold separately) for use on CNC machining centers. Profile Inserts for Tool#1 are not included and sold separately. **For custom profiles, please send a drawing, sketch or sample to obtain price and lead time.**



| Tool# | D | Width | Bore (d) | Z | Item# |
|---------------------------|-------------------|-------|----------|---|-------------|
| 1+2+3 Set | 160mm | | Specify | 3 | 4520.160.00 |
| Individual Cutters | | | | | |
| 1 | 160mm | 30mm | Specify | 3 | 4520.160.30 |
| 2 | 160mm | 20mm | Specify | 3 | 4520.160.20 |
| 3 | 138mm | 20mm | Specify | 3 | 4520.138.20 |
| Insert Knives | | | | | |
| P1 | 30mm x 25mm x 2mm | | | | 4520.201 |
| P2 | 30mm x 25mm x 2mm | | | | 4520.102 |
| P3 | 30mm x 25mm x 2mm | | | | 4520.103 |



TONGUE AND GROOVE INSERT CUTTERS

4555

Multi-tool tongue and groove cutter sets to produce tongue and groove flooring profiles in solid wood. Also suitable for use on wood composite materials. Five, standard profile solutions (P1-P5) offer an adjustable material thickness from 12 to 34mm in thickness. For use on moulders, tenoners and shapers. Steel body construction with reversible solid carbide insert knives produce exact profile matches with every tool change. Tools are supplied on a 60mm diameter sleeve for easy installation (shown below). Specify i.d. required. **Maximum RPM: 8,000.** See next page for diagrams of various, standard tool sets available.

Custom profiles and diameter needed can be manufactured based on individual specifications, usually with a six (6) week lead time.

Other sleeves available upon request.

| No. | D | B | d | Z | Groover | V+C | Item# |
|-----|---------|--------|------|---|---------|-----|----------|
| 1 | 140mm | 15mm | 60mm | 4 | | 2+2 | 4555.105 |
| 2 | 124mm | 12mm | 60mm | 2 | | | 4555.107 |
| 3 | 140mm | 15mm | 60mm | 4 | | 2+2 | 4555.106 |
| 4 | 140mm | 20mm | 60mm | 4 | 2 | | 4555.103 |
| 5 | 141mm | 20mm | 60mm | 4 | 2 | | 4555.207 |
| 6 | 140mm | 20mm | 60mm | 4 | 2 | | 4555.102 |
| 7 | 154.4mm | 11.6mm | 60mm | 2 | | | 4555.202 |
| 8 | 154.4mm | 11.6mm | 60mm | 2 | | | 4555.203 |
| 9 | 171mm | 15mm | 60mm | 4 | | 2+2 | 4555.120 |
| 10 | 159mm | 20mm | 60mm | 4 | 2 | | 4555.121 |

Replacement Inserts:
 Item# 4200.116.00
 Item# 4200.012.00
 Item# 4200.015.00
 Item# 4200.020.00
 Item# 4783.101 (groove knife)

AUXILIARY PARTS FOR TONGUE AND GROOVE CUTTER

| Dimensions. | RH Item# | LH Item# |
|--------------------------------|----------|----------|
| Sleeve with Locking Nut | | |
| 40mm x 110mm x 60mm | 4704.263 | 4704.163 |
| 50mm x 110mm x 60mm | 4704.264 | 4704.164 |
| Hook Wrench | | |
| 80mm x 90mm | 4706.502 | 4706.502 |

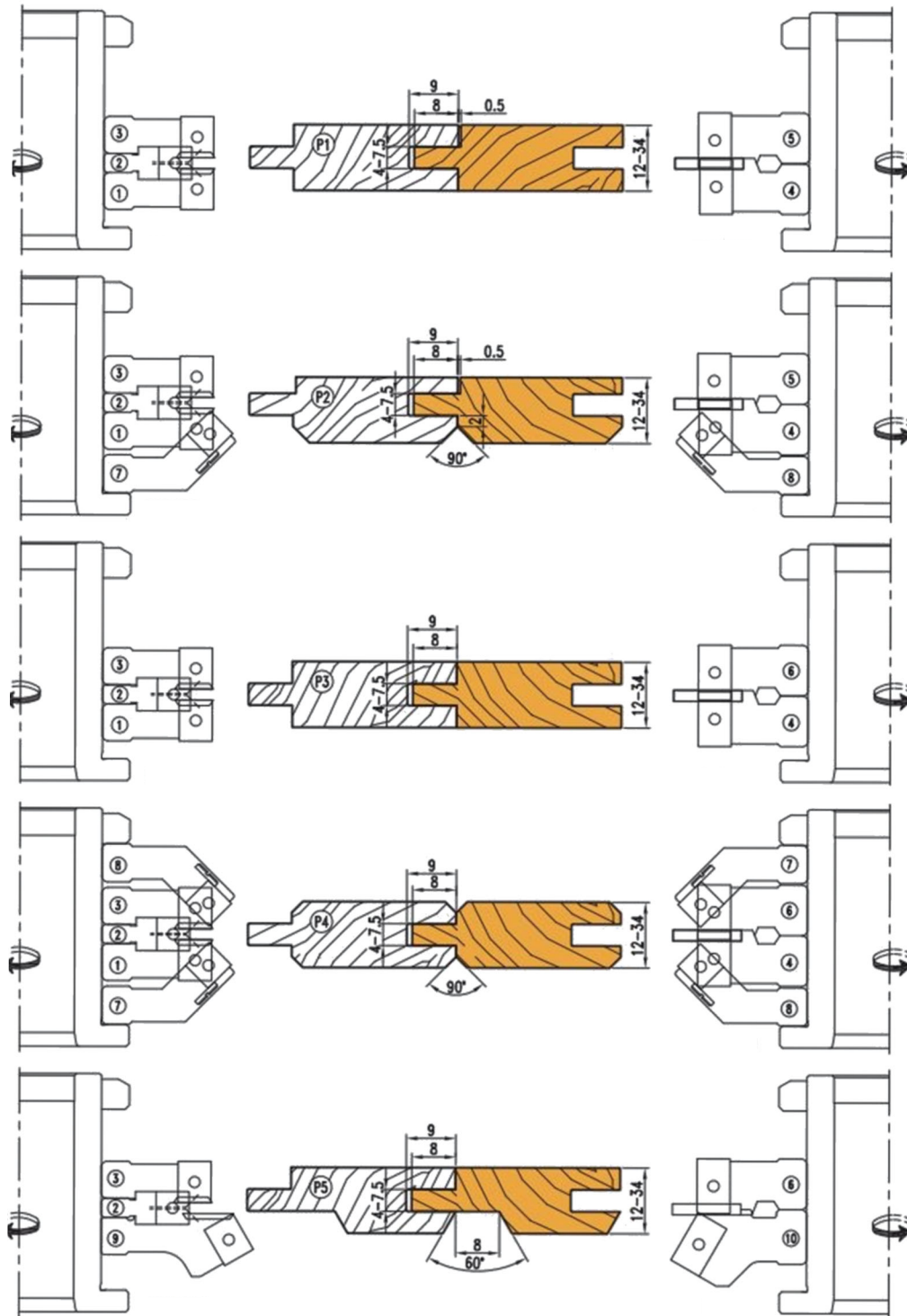


Sleeve with Locking Nut

TONGUE AND GROOVE INSERT CUTTERS continued

4555

Item numbers shown on diagram below for a tool set (as shown) comprised of 3, 4 or 5 tools respectively.



PLANING CUTTER

4506

Planing cutter for use on planers and moulders. Tool body constructed of light alloy material to reduce weight and stress on motor bearings. Standard HSS or tungsten carbide (TCT) planer knives of 30mm high x 3mm thick can be used with this cutter. Also available in steel body execution and different bore sizes (special order).

Maximum RPM: 9,000.

| D | B | Bore | Z | Item# |
|-------|-------|------|---|-------------|
| 125mm | 80mm | 40mm | 4 | 4506.125.80 |
| 125mm | 100mm | 40mm | 4 | 4506.125.10 |
| 125mm | 120mm | 40mm | 4 | 4506.125.12 |
| 125mm | 130mm | 40mm | 4 | 4506.125.13 |
| 125mm | 150mm | 40mm | 4 | 4506.125.15 |
| 125mm | 180mm | 40mm | 4 | 4506.125.18 |
| 125mm | 220mm | 40mm | 4 | 4506.125.22 |
| 125mm | 230mm | 40mm | 4 | 4506.125.23 |
| 125mm | 240mm | 40mm | 4 | 4506.125.24 |



HELICAL INSERT PLANING CUTTER

4539

Helical insert planing cutter for use on planers and moulders. Tool body constructed of light alloy material to reduce weight and stress on motor bearings. Helical design improves chip clearance and runs smoother and quieter. Utilizes four-sided, solid carbide insert knives that are forced into proper position when the insert is tightened onto the tool body. Excellent performance and cost-effectiveness. Also available in steel body execution and different bore sizes (special order). The 80mm cutter is a perfect fit for copy shapers! **Maximum RPM: 9,000.**

| D | B | Bore | Z | Item# |
|-------|-------|--------|------|-------------|
| 80mm | 100mm | 1-1/4" | 3/24 | 4539.080.10 |
| 125mm | 100mm | 40mm | 3/30 | 4539.125.10 |
| 125mm | 130mm | 40mm | 3/36 | 4539.125.13 |
| 125mm | 180mm | 40mm | 3/48 | 4539.125.18 |
| 125mm | 230mm | 40mm | 3/60 | 4539.125.23 |

Replacement Inserts: Item# 4200.015.11

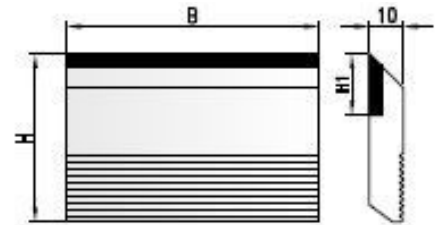


CARBIDE-TIPPED CORRUGATED KNIFE BARS

1090

Carbide-tipped, knife stock bars for cut-to-size profile knife needs feature a standard 60° corrugation and a “Weinig” bevel on the bottom of the knife. For use on standard moulder and hydro heads as well as CNC corrugated profile knife adapter. Bars are available in carbide inlay height from 15mm for shallow profiles, to 20mm, 25mm, and 35mm inlay (TCT height) to accommodate deeper profiles. As these knives are profiled, they are supplied with an unsharp edge. **90° corrugations and special sizes are available on request.**

| Length (B) | Height (H) | Thickness | TCT Height (H1) | Item# |
|------------|------------|-----------|-----------------|-------------|
| 25" | 1 1/2" | 5/16" | 15mm | 1090S635I15 |
| 25" | 2" | 5/16" | 20mm | 1090U635I20 |
| 25" | 2" | 5/16" | 25mm | 1090U635I25 |
| 25" | 2 1/2" | 5/16" | 35mm | 1090C635I35 |
| 635mm | 40mm | 10mm | 15mm | 1090L635K15 |
| 635mm | 50mm | 10mm | 20mm | 1090V635K20 |
| 635mm | 60mm | 10mm | 25mm | 1090W635K25 |
| 635mm | 70mm | 10mm | 35mm | 1090X635K35 |

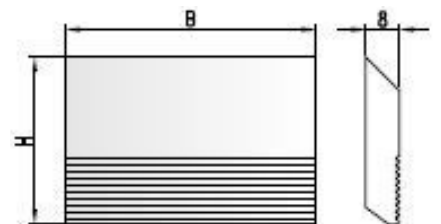


HIGH SPEED STEEL CORRUGATED KNIFE BARS

1590

HSS knife stock bars for cut-to-size profile knife needs feature a standard 60° corrugation and a “Weinig” bevel on the bottom of the knife. For use on standard moulder and hydro heads as well as CNC corrugated profile knife adapter.

| Length | Height | Thickness | Item# |
|--------|--------|-----------|-------------|
| 25" | 1 1/2" | 5/16" | 1590S635I60 |
| 25" | 1 3/4" | 5/16" | 1590T635I60 |
| 25" | 2" | 5/16" | 1590U635I60 |
| 25" | 2 1/4" | 5/16" | 1590Z635I60 |
| 25" | 2 1/2" | 5/16" | 1590G635I60 |
| 25" | 2 3/4" | 5/16" | 1590C635I60 |

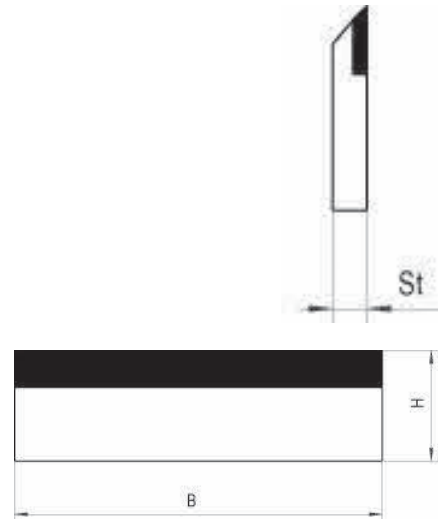


CARBIDE-TIPPED PLANER KNIVES

1001

Carbide-tipped, planer knives for all hardwoods (especially exotics), pressboard, phenolic resin bonded paper, etc. Available in knife height 25mm, 30mm, and 35mm.

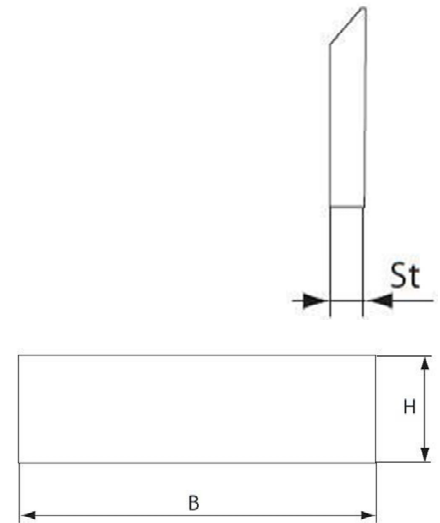
| Length (B) | Height (H) | Thickness (St) | Item# |
|------------|------------|----------------|-------------|
| 60mm | 30mm | 3mm | 1001.060.30 |
| 80mm | 30mm | 3mm | 1001.080.30 |
| 100mm | 25mm | 3mm | 1001.100.25 |
| 100mm | 30mm | 3mm | 1001.100.30 |
| 110mm | 25mm | 3mm | 1001.110.25 |
| 110mm | 30mm | 3mm | 1001.110.30 |
| 120mm | 25mm | 3mm | 1001.120.25 |
| 120mm | 30mm | 3mm | 1001.120.30 |
| 130mm | 25mm | 3mm | 1001.130.25 |
| 130mm | 30mm | 3mm | 1001.130.30 |
| 140mm | 25mm | 3mm | 1001.140.25 |
| 140mm | 30mm | 3mm | 1001.140.30 |
| 150mm | 25mm | 3mm | 1001.150.25 |
| 150mm | 30mm | 3mm | 1001.150.30 |
| 160mm | 30mm | 3mm | 1001.160.30 |
| 170mm | 30mm | 3mm | 1001.170.30 |
| 180mm | 30mm | 3mm | 1001.180.30 |
| 200mm | 30mm | 3mm | 1001.200.30 |
| 210mm | 30mm | 3mm | 1001.210.30 |
| 230mm | 25mm | 3mm | 1001.230.25 |
| 230mm | 30mm | 3mm | 1001.230.30 |
| 250mm | 30mm | 3mm | 1001.250.30 |
| 260mm | 25mm | 3mm | 1001.260.25 |
| 260mm | 30mm | 3mm | 1001.260.30 |
| 300mm | 30mm | 3mm | 1001.300.30 |
| 310mm | 25mm | 3mm | 1001.310.25 |
| 310mm | 35mm | 3mm | 1001.310.35 |
| 350mm | 35mm | 3mm | 1001.350.35 |
| 400mm | 35mm | 3mm | 1001.400.35 |
| 410mm | 25mm | 3mm | 1001.410.25 |
| 410mm | 30mm | 3mm | 1001.410.30 |
| 410mm | 35mm | 3mm | 1001.410.35 |
| 450mm | 30mm | 3mm | 1001.450.30 |
| 450mm | 35mm | 3mm | 1001.500.35 |
| 500mm | 30mm | 3mm | 1001.500.30 |
| 500mm | 35mm | 3mm | 1001.500.35 |
| 510mm | 25mm | 3mm | 1001.510.25 |
| 510mm | 30mm | 3mm | 1001.510.30 |
| 510mm | 35mm | 3mm | 1001.510.35 |
| 530mm | 30mm | 3mm | 1001.530.30 |
| 530mm | 35mm | 3mm | 1001.530.35 |
| 600mm | 30mm | 3mm | 1001.600.30 |
| 600mm | 35mm | 3mm | 1001.600.35 |
| 610mm | 30mm | 3mm | 1001.610.30 |
| 610mm | 35mm | 3mm | 1001.610.35 |
| 630mm | 30mm | 3mm | 1001.630.30 |
| 630mm | 35mm | 3mm | 1001.630.35 |
| 640mm | 30mm | 3mm | 1001.640.30 |
| 640mm | 35mm | 3mm | 1001.640.35 |
| 710mm | 30mm | 3mm | 1001.710.30 |
| 710mm | 35mm | 3mm | 1001.710.35 |
| 810mm | 25mm | 3mm | 1001.810.25 |
| 810mm | 30mm | 3mm | 1001.810.30 |
| 810mm | 35mm | 3mm | 1001.810.35 |
| 860mm | 30mm | 3mm | 1001.860.30 |
| 860mm | 35mm | 3mm | 1001.860.35 |



HIGH SPEED STEEL PLANER KNIVES

1501

| Length (B) | Height (H) | Thickness (St) | Item# |
|------------|------------|----------------|-------------|
| 60mm | 30mm | 3mm | 1501.060.30 |
| 60mm | 35mm | 3mm | 1501.060.35 |
| 80mm | 30mm | 3mm | 1501.080.30 |
| 80mm | 35mm | 3mm | 1501.080.35 |
| 100mm | 30mm | 3mm | 1501.100.30 |
| 100mm | 35mm | 3mm | 1501.100.35 |
| 110mm | 30mm | 3mm | 1501.110.30 |
| 120mm | 30mm | 3mm | 1501.120.30 |
| 120mm | 35mm | 3mm | 1501.120.35 |
| 130mm | 30mm | 3mm | 1501.130.30 |
| 130mm | 35mm | 3mm | 1501.130.35 |
| 150mm | 30mm | 3mm | 1501.150.30 |
| 150mm | 35mm | 3mm | 1501.150.35 |
| 160mm | 30mm | 3mm | 1501.160.30 |
| 160mm | 35mm | 3mm | 1501.160.35 |
| 170mm | 30mm | 3mm | 1501.170.30 |
| 180mm | 30mm | 3mm | 1501.180.30 |
| 210mm | 30mm | 3mm | 1501.210.30 |
| 230mm | 30mm | 3mm | 1501.230.30 |
| 240mm | 30mm | 3mm | 1501.240.30 |
| 260mm | 30mm | 3mm | 1501.260.30 |
| 300mm | 30mm | 3mm | 1501.300.30 |
| 310mm | 30mm | 3mm | 1501.310.30 |
| 310mm | 35mm | 3mm | 1501.310.35 |
| 350mm | 30mm | 3mm | 1501.350.30 |
| 350mm | 35mm | 3mm | 1501.350.35 |
| 400mm | 30mm | 3mm | 1501.400.30 |
| 400mm | 35mm | 3mm | 1501.400.35 |
| 410mm | 30mm | 3mm | 1501.410.30 |
| 410mm | 35mm | 3mm | 1501.410.35 |
| 450mm | 30mm | 3mm | 1501.450.30 |
| 450mm | 35mm | 3mm | 1501.450.35 |
| 500mm | 30mm | 3mm | 1501.500.30 |
| 500mm | 35mm | 3mm | 1501.500.35 |
| 510mm | 30mm | 3mm | 1501.510.30 |
| 510mm | 35mm | 3mm | 1501.510.35 |
| 520mm | 30mm | 3mm | 1501.520.30 |
| 530mm | 30mm | 3mm | 1501.530.30 |
| 530mm | 35mm | 3mm | 1501.530.35 |
| 600mm | 30mm | 3mm | 1501.600.30 |
| 600mm | 35mm | 3mm | 1501.600.35 |
| 610mm | 30mm | 3mm | 1501.610.30 |
| 610mm | 35mm | 3mm | 1501.610.35 |
| 630mm | 30mm | 3mm | 1501.630.30 |
| 630mm | 35mm | 3mm | 1501.630.35 |
| 640mm | 30mm | 3mm | 1501.640.30 |
| 640mm | 35mm | 3mm | 1501.640.35 |
| 710mm | 30mm | 3mm | 1501.710.30 |
| 710mm | 35mm | 3mm | 1501.710.35 |
| 810mm | 30mm | 3mm | 1501.810.30 |
| 810mm | 35mm | 3mm | 1501.810.35 |
| 820mm | 30mm | 3mm | 1501.820.30 |
| 860mm | 30mm | 3mm | 1501.860.30 |
| 860mm | 35mm | 3mm | 1501.860.35 |



**TERSA
CENTROLOCK
TERMINUS
CENTROFIX**

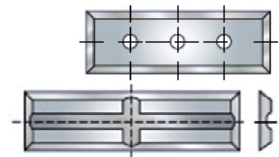
**AVAILABLE ON
REQUEST**

STANDARD INSERT KNIVES

4200/4201/6419

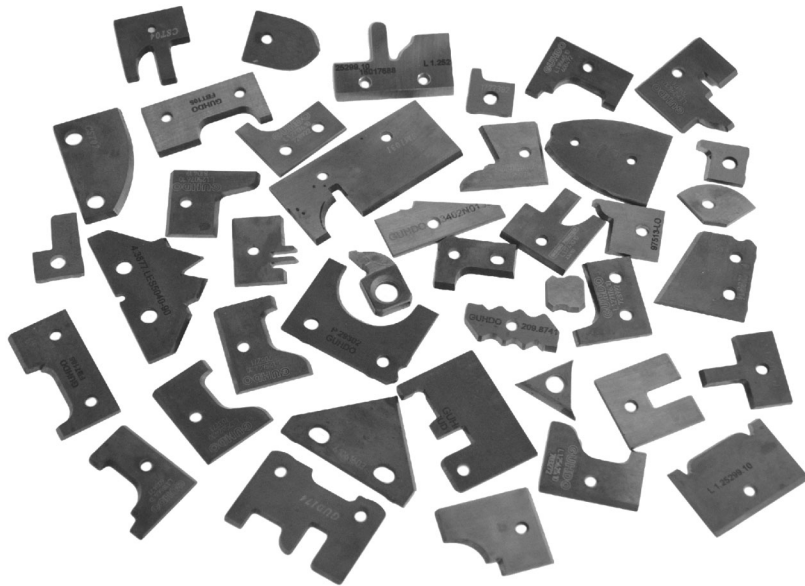
Solid Carbide Insert Knives for use on insert router bits and cutter heads. C/E denotes the number of cutting edges on the insert. Sold in boxes of ten (10) pieces.

| 2 Sides, 1 Hole | | | | | |
|---------------------------------------|------------|-----------|-----|---------------------------------|-------------|
| Length (B) | Height (H) | Thickness | C/E | Special Remarks | Item# |
| 7.5mm | 12mm | 1.5mm | 2 | | 4200.008.00 |
| 9mm | 12mm | 1.5mm | 2 | | 4200.009.00 |
| 9.6mm | 12mm | 1.5mm | 2 | | 4200.096.00 |
| 10.5mm | 12mm | 1.5mm | 2 | | 4200.105.00 |
| 11mm | 12mm | 1.5mm | 2 | | 4200.011.00 |
| 13mm | 12mm | 1.5mm | 2 | | 4200.013.00 |
| 15mm | 12mm | 1.5mm | 2 | | 4200.015.00 |
| 17mm | 12mm | 1.5mm | 2 | | 4200.017.00 |
| 18mm | 12mm | 1.5mm | 2 | | 4200.018.00 |
| 19mm | 12mm | 1.5mm | 2 | | 4200.019.00 |
| 20mm | 12mm | 1.5mm | 2 | | 4200.020.00 |
| 25mm | 12mm | 1.5mm | 2 | | 4200.025.01 |
| 2 Sides, 2 Holes | | | | | |
| Length (B) | Height (H) | Thickness | C/E | Special Remarks | Item# |
| 25mm | 12mm | 1.5mm | 2 | | 4200.025.00 |
| 30mm | 12mm | 1.5mm | 2 | | 4200.030.00 |
| 40mm | 12mm | 1.5mm | 2 | | 4200.040.00 |
| 50mm | 12mm | 1.5mm | 2 | | 4200.050.00 |
| 60mm | 12mm | 1.5mm | 2 | | 4200.060.00 |
| 2 Sides, 2 Holes (1 oblong) | | | | | |
| Length (B) | Height (H) | Thickness | C/E | Special Remarks | Item# |
| 80mm | 13mm | 2.2mm | 2 | | 4200.080.00 |
| 100mm | 13mm | 2.2mm | 2 | | 4200.100.00 |
| 120mm | 13mm | 2.2mm | 2 | | 4200.120.00 |
| 4 Sides, 2 Holes | | | | | |
| Length (B) | Height (H) | Thickness | C/E | Special Remarks | Item# |
| 20mm | 12mm | 1.5mm | 4 | | 6419.020.00 |
| 30mm | 12mm | 1.5mm | 4 | | 6419.030.00 |
| 40mm | 12mm | 1.5mm | 4 | | 6419.040.00 |
| 50mm | 12mm | 1.5mm | 4 | | 6419.050.00 |
| 60mm | 12mm | 1.5mm | 4 | | 6419.060.00 |
| 4 Sides, 3 Holes/4 Sided Cross Groove | | | | | |
| Length (B) | Height (H) | Thickness | C/E | Special Remarks | Item# |
| 20mm | 5.5mm | 1.1mm | 4 | | 4201.020.11 |
| 30mm | 5.5mm | 1.1mm | 4 | | 4201.030.11 |
| 40mm | 5.5mm | 1.1mm | 4 | | 4201.040.11 |
| 50mm | 5.5mm | 1.1mm | 4 | | 4201.050.11 |
| 4 Sides, 1 Hole | | | | | |
| Length (B) | Height (H) | Thickness | C/E | Special Remarks | Item# |
| 9mm | 9mm | 1.5mm | 4 | | 4200.009.09 |
| 10.5mm | 10.5mm | 1.5mm | 4 | | 4200.105.15 |
| 12mm | 12mm | 1.5mm | 4 | | 4200.012.00 |
| 13mm | 13mm | 2.5mm | 4 | | 4200.013.25 |
| 14mm | 14mm | 1.2mm | 4 | Holz-Her | 4200.014.12 |
| 14mm | 14mm | 2.0mm | 4 | | 4200.014.04 |
| 17mm | 17mm | 2.0mm | 4 | 3mm hole | 4200.017.77 |
| 17mm | 17mm | 2.0mm | 4 | 4mm hole | 4200.017.17 |
| 4 Sides, 1 Hole | | | | | |
| Length (B) | Height (H) | Thickness | C/E | Special Remarks | Item# |
| 15mm | 15mm | 2.5mm | 4 | Corner Radius, R150 Edge Radius | 4200.015.11 |
| 15mm | 15mm | 2.5mm | 4 | R100 Edge Radius (Byrd Shelix) | 4200.015.13 |
| 15mm | 15mm | 2.5mm | 4 | R100 Edge Radius 6.2mm hole | 4200.015.14 |
| 15mm | 15mm | 2.5mm | 4 | Square Corner R50 Edge Radius | 4200.015.17 |



CUSTOM INSERT PRODUCTION

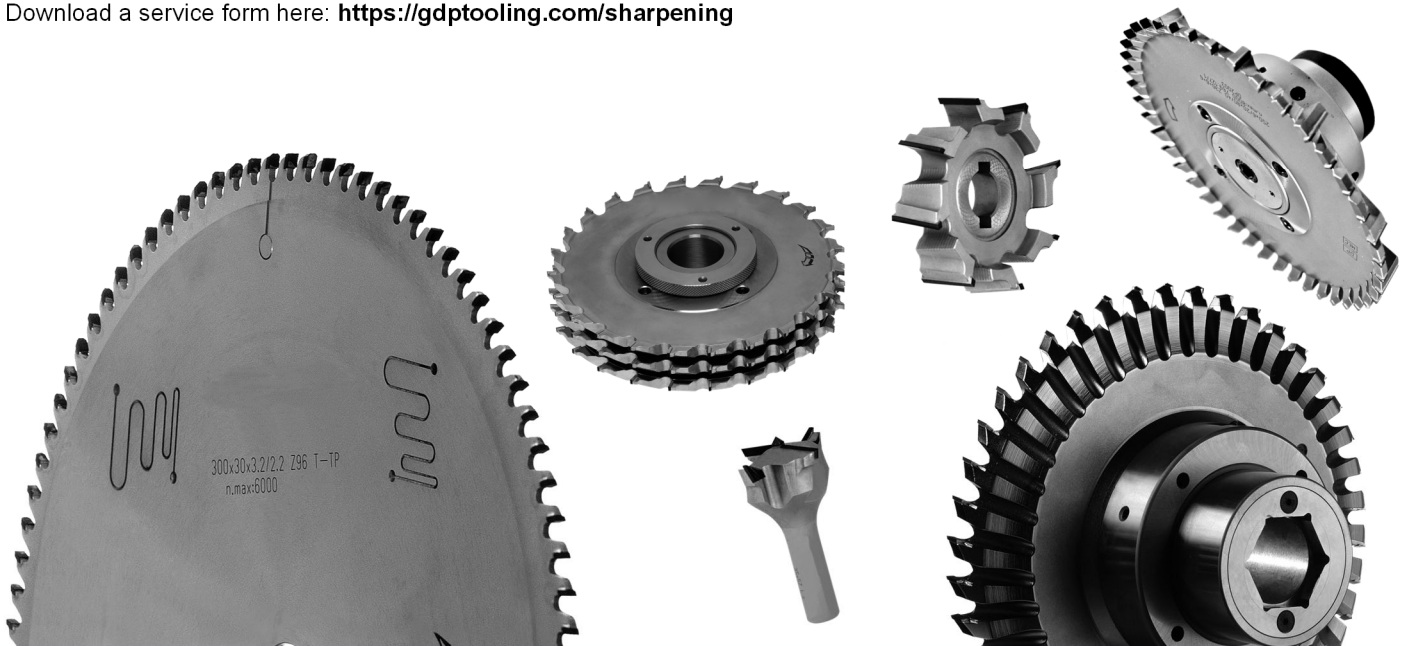
We offer in-house production of solid carbide insert knives for profile tooling (moulder, edgbander, tenoner, CNC), as well as all brands of profile insert cutters unless they are under current patent protection. We manufacture replacement knives for tooling companies no longer in business, such as DeHart, LRH and Howema.



PCD (DIAMOND) TOOL SHARPENING

Our Marietta, GA service facility boasts state-of-the-art, high precision EDM machines that are dedicated 100% to servicing polycrystalline diamond (PCD) cutting tools. Delivering superior service with fast turnaround, affordable pricing and reliable performance has been our mission since we installed our first PCD grinding machine in 1997. Both carbide and diamond tooling can be sent to our facility with full confidence! A satisfaction guarantee promise comes with every service we deliver!

Download a service form here: <https://gdptooling.com/sharpening>



GETTING A NEW CNC MACHINE?

Check out our 45-item package that allows you to customize the perfect startup set for your CNC machine. Select the size and style needed, and enjoy the highest quality tooling backed by our complete satisfaction guarantee.



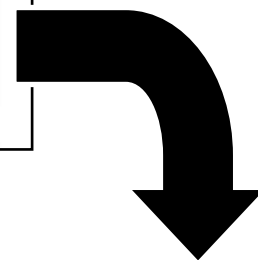
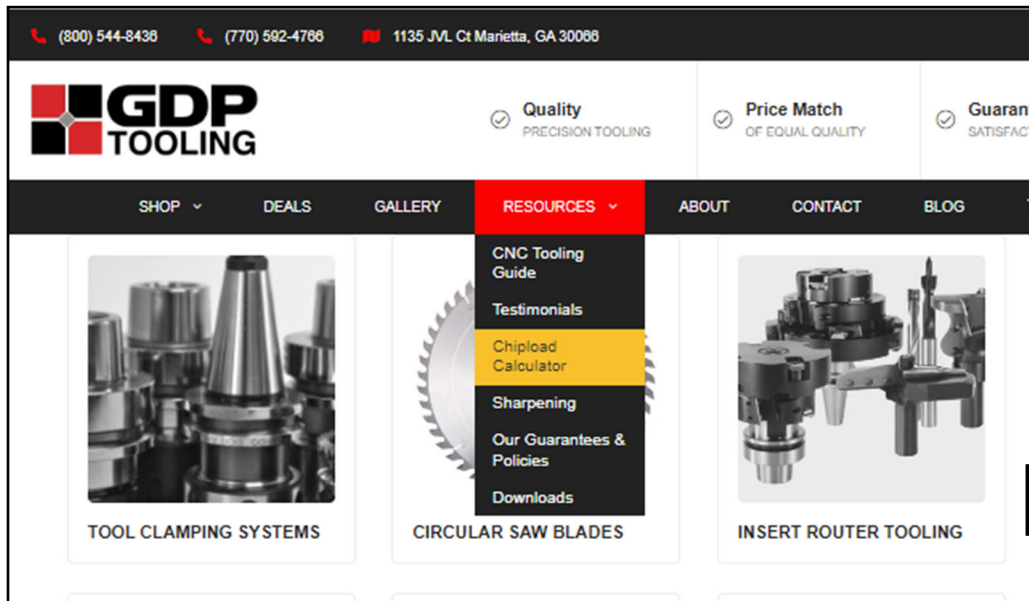
| Quantity | Tool Description | Package Options |
|----------|--------------------------|--|
| 8 | HSK 63F tool holders | Select RDO/SYOZ, ER32, or ER40 collet style |
| 8 | Precision collets | Any size diameter tool holder style matched with above choice |
| 1 | Spoilboard cutter | 80mm, three-wing cutter |
| 1 | HSK-F heat shrink chuck | Mounted to spoilboard cutter above |
| 10 | Carbide inserts | Extra replacements for spoilboard cutter above |
| 10 | Compression bits | Mix and match from any size and any grade 1/2" or smaller |
| 4 | Spiral bits | Mix and match up shear and down shear |
| 10 | Carbide drill bits | 70mm length, and then mix and match from any diameter, style, and rotation |
| 1 | Tool setup fixture | Basic style (or upgrade to "Plus" version for only \$200 more) |
| 1 | Torque wrench/collet key | Universal wrench with collet key matched to selected tool holder |



Scan for More Details and
Product Information

CALCULATING CHIP LOAD/FEED RATE

For an easy, quick reference guide for chip load and feed rate based on machining material and tooling type/size, take advantage of our chip load calculator available 24/7 on our website.



PLEASE INPUT YOUR OWN APPLICABLE VALUES INTO THE RESPECTIVE FEED RATE / UNITS / RPM AND NUMBER OF FLUTES FIELDS AND THE CHIP LOAD RESULT WILL AUTOMATICALLY BE REFLECTED IN THE RED CHIP LOAD RESULT FIELD.

To determine the **optimum** chip load for tool life/finish quality for particular material and tool, please refer to Pg 47 of our [CNC Tooling Guide](#)

| Tool Diameter | Hardwood | Softwood/Plywood | MDF/Particle Board | Soft Plastic | Hard Plastic |
|---------------|-------------|------------------|--------------------|--------------|--------------|
| 1/8" | .003"-.005" | .004"-.006" | .004"-.007" | .003"-.006" | .002"-.004" |
| 1/4" | .009"-.011" | .011"-.013" | .013"-.016" | .007"-.010" | .006"-.009" |
| 3/8" | .015"-.018" | .018"-.020" | .020"-.023" | .010"-.012" | .008"-.010" |
| 1/2" & up | .019"-.021" | .021"-.023" | .025"-.027" | .012"-.016" | .010"-.012" |

Calculate Chip Load

| FEED RATE | UNITS | RPM | NUMBER OF FLUTES |
|----------------------|---------------|-------|------------------|
| 600 | Inches/Minute | 18000 | 2 |
| Your Chipload | | | 0.017 |

www.gdptooling.com/chipload-calc/

Our Guarantee

GDP Tooling guarantees all tooling against defects in design, workmanship, and materials. All sales come with a performance and satisfaction guarantee (provided the tool has not been incorrectly used, misused, modified or serviced).

Shipping Procedures

All shipments are shipped via UPS unless otherwise specified.

Return Merchandise

- Merchandise may be returned only with advance approval and RMA.
- There is a 15% restocking fee on returned stock items.
- Non-stock catalog items will have a 25% restocking charge if approved for return.
- Custom tooling is not returnable, neither are discontinued items.
- No merchandise may be returned after sixty (60) days, unless at the company's discretion.
- All return merchandise must be shipped freight prepaid.

Cancellation Policy By Order Type

Standard (stock item): Orders can be cancelled without charge if they have not left our warehouse.

Non-stock items: Can be cancelled providing no cost has been incurred when the order is cancelled. Otherwise, a 25% restocking charge applies.

Custom orders: Can be cancelled, but all costs incurred to the point of cancellation will be billed. If a custom order is cancelled and the order is already complete, the customer will be obligated to accept the tool.

Terms: All new accounts are shipped with credit card prepayment, unless a credit line has been established. Open accounts (net 30) are due thirty (30) days from date of invoice. Past due accounts are subject to a finance charge at the periodic rate of 1.5% per month.

Delinquent accounts will be subject to additional collection/legal costs.

All prices are FOB Marietta, GA.

All prices are subject to change without notice.



1.800.544.8436
www.gdptooling.com