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GUBRO®



Other Product Literature Available:

Classic Tooling Catalog

Diamond Tooling Catalog

Plastics Tooling Catalog

Measuring Instruments Catalog

ISO 9001 CERTIFIED

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Router Bits For Plastic



Solid carbide O-Flute router bits for Polycarbonate, ABS, Polystyrene, PVC and other soft and flexible plastics. Straight cut.

6201 Z1

| D | L2 | S | L1 | Part Number |
|------|-----|----------|-------|-------------|
| 1/8 | 3/8 | 1/4 | 2-1/2 | 6201R12514 |
| 1/8 | 3/8 | 1/4 (LH) | 2-1/2 | 6201L12514 |
| 5/32 | 1/2 | 1/4 | 2-1/2 | 6201R15614 |
| 3/16 | 1/2 | 1/4 | 2-1/2 | 6201R18714 |
| 3/16 | 1/2 | 1/4 (LH) | 2-1/2 | 6201L18714 |
| 7/32 | 5/8 | 1/4 | 2-1/2 | 6201R21814 |
| 1/4 | 3/4 | 1/4 | 2-1/2 | 6201R25014 |
| 1/4 | 3/4 | 1/4 (LH) | 2-1/2 | 6201L25014 |
| 1/4 | 1 | 1/4 | 2-1/2 | 6201R25114 |
| 3/8 | 1 | 1/4 | 2-1/2 | 6201R37514 |



Solid carbide O-Flute spiral router bits for Acrylics, Nylons, and other rigid plastics.

| D | L2 | S | Flute | L1 | Part No. |
|------|-----|-----|-------|-------|-------------|
| 1/8 | 3/8 | 1/4 | up | 2-1/2 | 6201.125U14 |
| 1/8 | 3/8 | 1/4 | down | 2-1/2 | 6201.125D14 |
| 3/16 | 1/2 | 1/4 | up | 2-1/2 | 6201.187U14 |
| 3/16 | 1/2 | 1/4 | down | 2-1/2 | 6201.187D14 |
| 1/4 | 3/4 | 1/4 | up | 2-1/2 | 6201.250U14 |
| 1/4 | 3/4 | 1/4 | down | 2-1/2 | 6201.250D14 |



6228 Z2

Right and left-hand rotation. Available in upshear and downshear with C4 micrograin carbide. With plunge cutting.

U denotes up spiral

D denotes down spiral

metric sizes also available



| D | L2 | S | L1 | RH Part No. | LH Part No. |
|------|-------|------|-------|-------------|-------------|
| 3/32 | 1/2 | 1/4 | 2 | 6228R094U14 | - |
| 3/32 | 1/2 | 1/4 | 2 | 6228R094D14 | - |
| 1/8 | 1/2 | 1/4 | 2 | 6228R125U14 | 6228L125U14 |
| 1/8 | 1/2 | 1/4 | 2 | 6228R125D14 | 6228L125D14 |
| 5/32 | 3/4 | 1/4 | 2 | 6228R156U14 | - |
| 5/32 | 3/4 | 1/4 | 2 | 6228R156D14 | - |
| 3/16 | 3/4 | 1/4 | 2 | 6228R187U14 | 6228L187U14 |
| 3/16 | 3/4 | 1/4 | 2 | 6228R187D14 | 6228L187D14 |
| 7/32 | 3/4 | 1/4 | 2-1/2 | 6228R218U14 | 6228L218U14 |
| 7/32 | 3/4 | 1/4 | 2-1/2 | 6228R218D14 | 6228L218D14 |
| 1/4 | 1 | 1/4 | 2-1/2 | 6228R250U14 | 6228L250U14 |
| 1/4 | 1 | 1/4 | 2-1/2 | 6228R250D14 | 6228L250D14 |
| 1/4 | 1-1/4 | 1/4 | 3 | 6228R251U14 | - |
| 1/4 | 1-1/4 | 1/4 | 3 | 6228R251D14 | - |
| 5/16 | 1 | 5/16 | 3 | 6228R312U12 | 6228L312U12 |
| 5/16 | 1 | 5/16 | 3 | 6228R312D12 | 6228L312D12 |
| 5/16 | 1 | 1/2 | 3 | 6228R312U13 | - |
| 5/16 | 1 | 1/2 | 3 | 6228R312D13 | - |
| 3/8 | 1 | 3/8 | 3 | 6228R375U38 | 6228L375U38 |
| 3/8 | 1 | 3/8 | 3 | 6228R375D38 | 6228L375D38 |
| 3/8 | 1-1/4 | 1/2 | 3 | 6228R375U12 | - |
| 3/8 | 1-1/4 | 1/2 | 3 | 6228R375D12 | - |
| 7/16 | 1-1/4 | 1/2 | 3 | 6228R437U12 | 6228L437U12 |
| 7/16 | 1-1/4 | 1/2 | 3 | 6228R437D12 | 6228L437D12 |
| 1/2 | 1-1/4 | 1/2 | 3 | 6228R500U12 | 6228L500U12 |
| 1/2 | 1-1/4 | 1/2 | 3 | 6228R500D12 | 6228L500D12 |
| 1/2 | 1-1/2 | 1/2 | 3 | 6228R500U13 | - |
| 1/2 | 1-1/2 | 1/2 | 3 | 6228R500D13 | - |
| 1/2 | 2 | 1/2 | 4 | 6228R500U14 | 6228L500U14 |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6228R500U15 | - |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6228R500D15 | - |
| 1/2 | 2 | 1/2 | 4 | 6228R500D14 | 6228L500D14 |
| 9/16 | 1-1/4 | 1/2 | 3-1/2 | 6228R563U12 | - |
| 9/16 | 1-1/4 | 1/2 | 3-1/2 | 6228R563D12 | - |
| 5/8 | 1-1/2 | 5/8 | 3 | 6228R625U58 | 6228L625U58 |
| 5/8 | 1-1/2 | 5/8 | 3 | 6228R625D58 | 6228L625D58 |
| 5/8 | 2 | 5/8 | 4 | 6228R625U60 | 6228L625U60 |
| 5/8 | 2 | 5/8 | 4 | 6228R625D60 | 6228L625D60 |
| 3/4 | 1-1/2 | 3/4 | 3 | 6228R750U34 | 6228L750U34 |
| 3/4 | 1-1/2 | 3/4 | 3 | 6228R750D34 | 6228L750D34 |
| 3/4 | 2 | 3/4 | 4 | 6228R750U60 | 6228L750U60 |
| 3/4 | 2 | 3/4 | 4 | 6228R750D60 | 6228L750D60 |
| 3/4 | 3 | 3/4 | 5 | 6228R751U60 | - |
| 3/4 | 3 | 3/4 | 5 | 6228R751D60 | - |
| 3/4 | 3-1/4 | 3/4 | 6 | 6228R752U60 | - |
| 3/4 | 3-1/4 | 3/4 | 6 | 6228R752D60 | - |
| 3/4 | 3-1/2 | 3/4 | 6 | 6228R753U60 | - |
| 3/4 | 3-1/2 | 3/4 | 6 | 6228R753D60 | - |

Solid Carbide Spiral Router Bit



Right hand rotation. Available upshear and downshear with C4 micro grain carbide. With plunge cutting.

6227 Z3

| D | L2 | S | L1 | Part Number |
|-----|-------|-----|-------|--------------|
| 3/8 | 1-1/4 | 3/8 | 3 | 6227.375.38U |
| 3/8 | 1-1/4 | 3/8 | 3 | 6227.375.38D |
| 1/2 | 1-1/4 | 1/2 | 3 | 6227.500.12U |
| 1/2 | 1-1/4 | 1/2 | 3 | 6227.500.12D |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6227.500.14U |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6227.500.14D |
| 1/2 | 2 | 1/2 | 4 | 6227.500.13U |
| 1/2 | 2 | 1/2 | 4 | 6227.500.13D |
| 5/8 | 2 | 5/8 | 4 | 6227.625.58U |
| 5/8 | 2 | 5/8 | 4 | 6227.625.58D |
| 3/4 | 1-1/2 | 3/4 | 4 | 6227.750.76U |
| 3/4 | 1-1/2 | 3/4 | 4 | 6227.750.76D |
| 3/4 | 2 | 3/4 | 4 | 6227.750.75U |
| 3/4 | 2 | 3/4 | 4 | 6227.750.75D |
| 3/4 | 3 | 3/4 | 6 | 6227.750.77U |
| 3/4 | 3 | 3/4 | 6 | 6227.750.77D |

U denotes up spiral
D denotes down spiral
metric sizes also available



Solid Carbide Spiral Router Bit Upshear/Downshear

Designed specifically for chip free cutting on double sided materials. C4 micro grain carbide. With plunge cutting.

6229 Z1

| D | L2 | S | L1 | RH Part No. | LH Part No. |
|-----|-------|-----|-------|-------------|-------------|
| 1/4 | 1 | 1/4 | 2-1/2 | 6229.250.25 | - |
| 3/8 | 1-1/4 | 3/8 | 2-1/2 | 6229.375.37 | 6229.375.39 |
| 1/2 | 1-1/4 | 1/2 | 3 | 6229.500.50 | 6229.500.51 |
| 1/2 | 1-1/2 | 1/2 | 3-1/2 | 6229.501.50 | 6229.501.51 |
| 5/8 | 1-1/2 | 1/2 | 3-1/2 | 6229.625.12 | - |
| 5/8 | 2 | 5/8 | 4 | 6229.625.58 | - |
| 3/4 | 1-1/2 | 3/4 | 3 | 6229.750.75 | - |

6229 Z2

| | | | | | |
|------|-------|-----|-------|-------------|-------------|
| 1/4 | 1 | 1/4 | 3 | 6229.250.50 | - |
| *3/8 | 1-1/4 | 3/8 | 3 | 6229.250.25 | - |
| 3/8 | 1-1/4 | 3/8 | 3 | 6229.375.20 | 6229.375.21 |
| 1/2 | 1-1/4 | 1/2 | 3 | 6229.500.20 | 6229.500.21 |
| *1/2 | 1-1/4 | 1/2 | 3 | 6229.500.16 | - |
| 1/2 | 1-3/8 | 1/2 | 3 | 6229.502.50 | - |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6229.501.20 | 6229.501.21 |
| 1/2 | 2 | 1/2 | 4 | 6229.503.50 | 6229.503.51 |
| 5/8 | 1-1/2 | 5/8 | 4 | 6229.625.21 | - |
| 3/4 | 1-1/2 | 3/4 | 4 | 6229.750.21 | - |
| 3/4 | 2 | 3/4 | 4 | 6229.750.20 | - |

* With 3/16" up spiral



Solid Carbide Spiral Router Bit

6230 Z2

Right hand rotation. With off-set chipbreakers for higher feed speeds producing a good finish. Available in upshear and downshear with C4 micrograin carbide. Plunge cutting.



| D | L2 | S | L1 | Part Number |
|-----|-------|-----|-------|--------------|
| 1/2 | 1-1/4 | 1/2 | 3 | 6230.500.U12 |
| 1/2 | 1-1/4 | 1/2 | 3 | 6230.500.D12 |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6230.500.U15 |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6230.500.D15 |
| 1/2 | 2 | 1/2 | 4 | 6230.500.U14 |
| 1/2 | 2 | 1/2 | 4 | 6230.500.D14 |
| 5/8 | 2 | 5/8 | 4 | 6230.625.U60 |
| 5/8 | 2 | 5/8 | 4 | 6230.625.D60 |
| 3/4 | 2 | 3/4 | 4 | 6230.750.U60 |
| 3/4 | 2 | 3/4 | 4 | 6230.750.D60 |
| 3/4 | 3 | 3/4 | 6 | 6230.750.U62 |
| 3/4 | 3 | 3/4 | 6 | 6230.750.D62 |

6230 Z3

| | | | | |
|-----|-------|-----|-------|--------------|
| 3/8 | 1-1/4 | 3/8 | 3 | 6230.375.U38 |
| 3/8 | 1-1/4 | 3/8 | 3 | 6230.375.D38 |
| 1/2 | 1-1/4 | 1/2 | 3 | 6230.501.U12 |
| 1/2 | 1-1/4 | 1/2 | 3 | 6230.501.D12 |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6230.501.U15 |
| 1/2 | 1-5/8 | 1/2 | 3-1/2 | 6230.501.D15 |
| 1/2 | 2 | 1/2 | 4 | 6230.501.U14 |
| 1/2 | 2 | 1/2 | 4 | 6230.501.D14 |
| 5/8 | 2 | 5/8 | 4 | 6230.625.U61 |
| 5/8 | 2 | 5/8 | 4 | 6230.625.D61 |
| 3/4 | 2 | 3/4 | 4 | 6230.751.U60 |
| 3/4 | 2 | 3/4 | 4 | 6230.751.D60 |
| 3/4 | 3 | 3/4 | 6 | 6230.752.U60 |
| 3/4 | 3 | 3/4 | 6 | 6230.752.D60 |

6231 Z3

Right hand rotation. Hogging design for very high feed speeds. Available in upshear and downshear with C4 micrograin carbide. Plunge cutting.

U denotes up spiral
D denotes down spiral
metric sizes also available



| D | L2 | S | L1 | Part Number |
|-----|-------|-----|----|--------------|
| 3/8 | 1-1/4 | 3/8 | 3 | 6231.375.U12 |
| 3/8 | 1-1/4 | 3/8 | 3 | 6231.375.D12 |
| 1/2 | 1-1/2 | 1/2 | 3 | 6231.500.U13 |
| 1/2 | 1-1/2 | 1/2 | 3 | 6231.500.D13 |
| 5/8 | 2 | 5/8 | 4 | 6231.625.U60 |
| 5/8 | 2 | 5/8 | 4 | 6231.625.D60 |
| 3/4 | 2 | 3/4 | 4 | 6231.750.U34 |
| 3/4 | 2 | 3/4 | 4 | 6231.750.D34 |
| 3/4 | 3 | 3/4 | 6 | 6231.751.U34 |
| 3/4 | 3 | 3/4 | 6 | 6231.751.D34 |
| 3/4 | 3-1/4 | 3/4 | 6 | 6231.752.U34 |
| 3/4 | 3-1/4 | 3/4 | 6 | 6231.752.D34 |

Insert Bit For Deep Pocket Cutting

Insert tool for use with drilling/routing deep mortise pockets in composite and solid wood.

6236

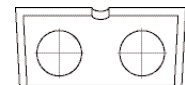
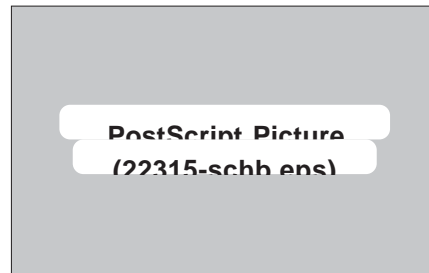
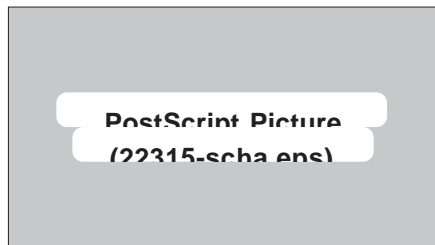
| D | L2 | L3 | L4 | L1 | Shank | Part No. |
|----|----|-----|-----|-----|---------|-------------|
| 16 | 16 | 105 | 105 | 150 | 16 x 45 | 6236.160.16 |
| 16 | 16 | 105 | 113 | 170 | 16 x 55 | 6236.161.16 |
| 16 | 16 | 105 | 110 | 170 | 20 x 55 | 6236.161.20 |
| 16 | 16 | 105 | 123 | 180 | 16 x 55 | 6236.162.16 |
| 16 | 16 | 105 | 134 | 210 | 25 x 75 | 6236.160.25 |
| 18 | 16 | 95 | 98 | 150 | 20 x 50 | 6236.180.20 |
| 18 | 16 | 105 | 110 | 170 | 20 x 55 | 6236.181.20 |

| Solid Carbide Inserts | Part No. |
|-----------------------|-----------------|
| 16 x 7 x 1.5 Form A | 6236.000.10 |
| 16 x 7 x 1.5 Form B | 6236.000.20 |
| Replacement Parts | Part No. |
| M3 x 4.4 screw | 39081-0-03040-R |
| Torx screw (T9) | 39077-0-03009-R |

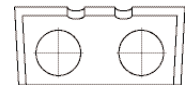


1 DIN 6535-HB 16 (DIN 1835-B16) e.g. for MAKAK

2 DIN 6535-HB 20 (DIN 1835-B20)



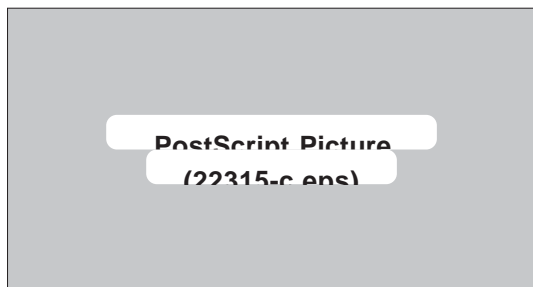
Form A



Form B

3 For WEEKE/HOMAG

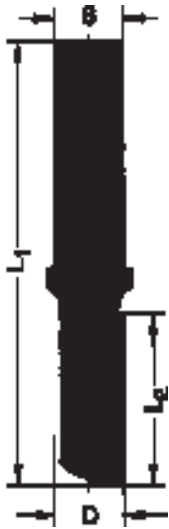
4 For WEEKE/HOMAG



Insert Router Bit

6217 Z1

For grooving, jointing and rebating on composite materials. Can plunge up to 1/2" dia. Not recommended for use on solid woods.



| D | L2 | L1 | Shank Dia./Length | Part No. |
|------|----|-----|-------------------|-------------|
| 8 | 20 | 60 | 9.5x30 | 6217.080.20 |
| 10 | 25 | 60 | 9.5x30 | 6217.100.20 |
| 8 | 20 | 70 | 10x40 | 6217.081.20 |
| 9 | 20 | 70 | 10x40 | 6217.090.20 |
| 10 | 25 | 75 | 10x40 | 6217.101.20 |
| 11 | 25 | 75 | 10x40 | 6217.110.20 |
| 12 | 30 | 80 | 10x40 | 6217.120.20 |
| 14 | 30 | 80 | 10x40 | 6217.140.20 |
| 8 | 20 | 70 | 12x40 | 6217.082.20 |
| 10 | 25 | 75 | 12x40 | 6217.102.20 |
| 12 | 20 | 70 | 12x40 | 6217.121.20 |
| 12 | 30 | 80 | 12x40 | 6217.120.30 |
| 12 | 30 | 80 | 12x40(LH) | 6217.120.31 |
| 14 | 30 | 80 | 12x40 | 6217.140.30 |
| 14 | 30 | 80 | 12x40(LH) | 6217.140.31 |
| 16 | 50 | 100 | 12x40 | 6217.160.50 |
| 3/8" | 20 | 65 | 3/8"x30 | 6217.953.20 |
| 1/2" | 30 | 80 | 1/2"x40 | 6217.127.30 |
| 1/2" | 30 | 80 | 1/2" x 40(LH) | 6217.127.31 |

LH denotes left hand rotation

| Solid Carbide Inserts | Part No. |
|-----------------------------------|-------------|
| 20x4.1x1.1 for D=8, 9 mm & 3/8 | 4201.021.11 |
| 20x5.5x1.1 for D=12x20 mm | 4201.020.11 |
| 25x5.5x1.1 for D=10 & 11 mm | 4201.025.11 |
| 30x5.5x1.1 for D=12, 14 mm & 1/2" | 4201.030.11 |
| 50x5.5x1.1 for D=16 mm | 4201.050.11 |

| Replacement Parts | Part No. |
|--|-----------------|
| M2.5 x 3.0 Screw for D = 8 | 39080-0-25301-R |
| M2.5 x 4.0 Screw for D = 9, 10, 11 mm & 3/8" | 39080-0-25401-R |
| M3.0 x 7.0 Screw for D = 12, 14 mm & 1/2" | 39080-0-30701-R |
| M3.5 x 5.5 Screw for D = 16 mm | 39080-0-35551-R |
| TORX star key for M2.5 & M3 screw (T8) | 39077-0-03008-1 |
| TORX star key for M3.5 screw (T15) | 39077-0-04015-1 |
| Replacement wedges available upon request. | |

Insert Router Bit

GUHDO®

For producing rebates and shallow grooves. With plunging inserts.
For use on composite and solid materials.

6219 Z1+Z2

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|----|-------------------|-------------|
| 16 | 12 | 70 | 1/4 x 30 | 6219.160.12 |
| 18 | 12 | 70 | 1/4 x 30 | 6219.180.12 |
| 20 | 12 | 70 | 1/4 x 1/4 | 6219.200.12 |
| 24 | 12 | 70 | 1/4 x 30 | 6219.240.12 |
| 16 | 12 | 70 | 1/2 x 30 | 6219.161.12 |
| 18 | 12 | 70 | 1/2 x 30 | 6219.181.12 |
| 20 | 12 | 70 | 1/2 x 30 | 6219.201.12 |
| 24 | 12 | 70 | 1/2 x 30 | 6219.241.12 |

Maximum RPM: 18,000



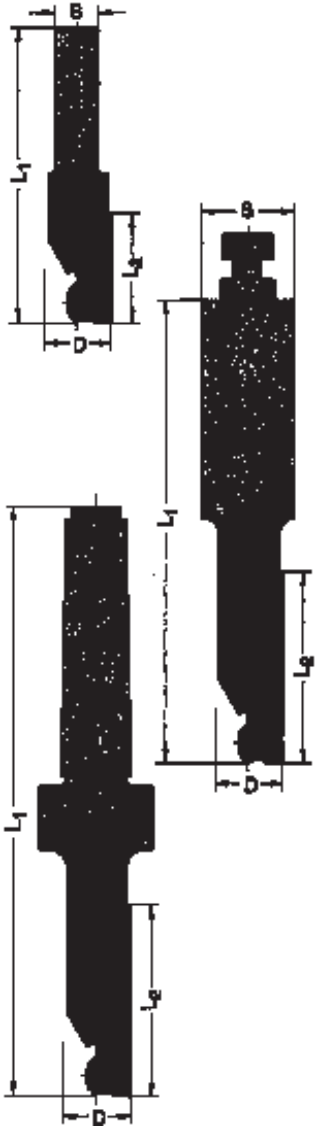
| Solid Carbide Knives | Part No. |
|--|-------------|
| 12 x 12 x 1.5 peripheral insert | 4200.012.00 |
| 7.5 x 12 x 1.5 plunge insert for D=16 & 18mm | 4200.008.00 |
| 9 x 12 x 1.5 plunge insert for D=20mm | 4200.009.00 |
| 12 x 12 x 1.5 plunge insert for D=24mm | 4200.012.00 |

| Replacement Parts | Part No. |
|--|-----------------|
| M3.5 x 4 screw for D=16 & 18mm | 39076-0-03500-R |
| M4 x 4 screw for D=20mm | 39076-0-04040-R |
| M4 x 5.9 screw for plunge knife D=24mm | 39076-0-04000-R |
| M4 x 5 screw for plunge knife D=16,18 & 20mm | 39081-0-04050-R |
| TORX wrench | 39077-0-04015-1 |

Insert Router Bit

6219 Z1+Z1

For grooving, jointing & rebating, with plunging insert. For use on composite and solid materials.



| D | L2 | L1 | Shank Dia./Length | Part No. |
|------|----|-----|-------------------|-------------|
| 16 | 30 | 71 | 10x30 | 6219.161.30 |
| 18 | 30 | 71 | 10x30 | 6219.180.30 |
| 20 | 30 | 71 | 10x30 | 6219.200.30 |
| 22 | 30 | 71 | 10x30 | 6219.220.30 |
| | | | | |
| 16 | 30 | 81 | 12x40 | 6219.162.30 |
| 16 | 30 | 81 | 12x40 (LH) | 6219.162.31 |
| 18 | 30 | 81 | 12x40 | 6219.181.30 |
| 18 | 30 | 81 | 12x40 (LH) | 6219.181.31 |
| 20 | 30 | 81 | 12x40 | 6219.201.30 |
| 20 | 30 | 81 | 12x40 (LH) | 6219.201.31 |
| 22 | 30 | 81 | 12x40 | 6219.221.30 |
| | | | | |
| 16 | 50 | 101 | 14x40 | 6219.160.50 |
| 16 | 30 | 91 | 16x45m.E. M6 | 6219.160.30 |
| 16 | 30 | 91 | 16x45m.E. M6(LH) | 6219.160.31 |
| 16 | 50 | 106 | 16x45m.E. M6 | 6219.161.50 |
| 16 | 50 | 116 | 25x55m.E. M8 | 6219.162.50 |
| 18 | 50 | 116 | 25x55m.E. M8 | 6219.180.50 |
| 18 | 50 | 116 | 25x55m.E. M8(LH) | 6219.180.51 |
| 3/4" | 50 | 110 | 3/4"x50m.E. M8 | 6219.190.50 |
| | | | | |
| 20 | 30 | 96 | 25x55m.E. M8(LH) | 6219.200.31 |
| 20 | 50 | 116 | 25x55m.E. M8 | 6219.200.50 |
| 20 | 50 | 116 | 25x55m.E. M8(LH) | 6219.200.51 |
| 22 | 50 | 116 | 25x55m.E. M8 | 6219.220.50 |
| | | | | |
| 16 | 50 | 144 | MK 2/M30x1.5 | 6219.163.50 |
| 18 | 50 | 144 | MK 2/M30x1.5 | 6219.183.50 |
| 20 | 50 | 144 | MK 2/M30x1.5 | 6219.203.50 |
| 22 | 50 | 144 | MK 2/M30x1.5 | 6219.221.50 |

LH denotes left hand rotation

m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. |
|--------------------------------------|-------------|
| 30 x 5.5 x 1.1 | 4201.030.11 |
| 50 x 5.5 x 1.1 | 4201.050.11 |
| 12 x 12 x 1.5 Plunging tip (4-sided) | 4200.012.00 |

| Replacement Parts | Part No. |
|--|-----------------|
| M3.5 x 5.5 screw for plunge knife diameter 16/18mm/3/4" | 39080-0-35551-R |
| M3.5 x 6.5 screw for plunge knife diameter 20, 22mm | 39080-0-35651-R |
| M4 x 5.9 TORX screw for plunge knife diameter 16/18mm/3/4" | 39076-0-04000-R |
| M4 x 7 screw for plunge knife diameter 20/22mm | 39076-0-04070-R |
| TORX star key for M3.5 & M4 screw (T15) | 39077-0-04015-2 |

Adjustment screw for Leuco PS System available on request.

Fractional shank sizes available on request.

Insert Router Bit

GUHDO®

For cutting composite and solid materials. With carbide-tipped plunge point.

6242 Z1+1

| D | L2/L3 | L1 | Shank Dia./Length | Part No. |
|----|-------|-----|--------------------|-------------|
| 16 | 30/40 | 107 | 25x55 m.E. M8 | 6242.160.30 |
| 16 | 30/40 | 107 | 3/4x55 m.E. M8 | 6242.160.34 |
| 18 | 50 | 115 | 3/4x55 m.E. M8 | 6242.180.34 |
| 18 | 50 | 115 | 25x55 m.E. M8 | 6242.180.50 |
| 18 | 50 | 115 | 3/4x55 m.E. M8(LH) | 6242.180.35 |
| 18 | 50 | 115 | 25x55 m.E. M8 (LH) | 6242.180.51 |
| 20 | 30/50 | 110 | 25x55 m.E. M8 | 6242.200.30 |
| 20 | 30/50 | 110 | 3/4x55 m.E. M8 | 6242.200.34 |
| 20 | 58 | 120 | 25x55 m.E. M8 | 6242.200.58 |
| 20 | 58 | 120 | 3/4x55 m.E. M8 | 6242.201.34 |

LH denotes left hand rotation

m.E. denotes adjusting screw size

| Solid Carbide Knives | Part No. |
|---|-------------|
| 30 x 12 x 1.5 (4-sided) | 6419.030.00 |
| 7.5 x 12 x 1.5 plunge insert for D=16 + 18 mm | 4200.008.00 |
| 9 x 12 x 1.5 plunge insert for D=20mm | 4200.009.00 |

| Replacement Parts | Part No. |
|--------------------------------------|-----------------|
| M3.5 screw for D=16&20mm&20mm plunge | 39076-0-03500-R |
| M4.4 screw for D=18mm | 39076-0-04040-R |
| M3.5x4 screw for 16mm plunge | 39081-0-03540-R |
| M4x5 screw for 18mm plunge | 39081-0-04050-R |
| TORX wrench (T15) | 39077-0-04015-2 |



Adjustment screw for Leuco PS System available upon request.

For grooving, rebating and jointing on composite and solid materials.

6224 Z2

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|-------------------|-------------|
| 16 | 30 | 100 | 3/4 x 55m.E. M8 | 6224.161.30 |
| 16 | 30 | 100 | 25 x 55m.E. M8 | 6224.160.30 |
| 16 | 50 | 120 | 3/4 x 55m.E. M8 | 6224.161.50 |
| 16 | 50 | 120 | 25 x 55m.E. M8 | 6224.160.50 |

m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. | Replacement Parts | Part No. |
|------------------------------------|-------------|-------------------|-----------------|
| 30 x 9 x 1.5 For L2=30 (D=16mm) | 6419.030.09 | M3.5 x 4.8 screw | 39080-0-03548-R |
| 50 x 9 x 1.5 For L2=50 (D=16mm) | 6419.050.09 | Torx wrench (T15) | 39077-0-04015-2 |



Maximum RPM: 18,000

Insert Router Bit

6218 Z2

For use on composite and solid materials with T.C.T. plunge Tip.
Right-hand rotation.



Adjustment screw for
Leuco PS System
available upon request.

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|-------------------|-------------|
| 24 | 50 | 119 | 25 x 55 m.E. M8 | 6218.240.50 |
| 24 | 50 | 119 | 3/4 x 55 m.E. M8 | 6218.240.34 |
| 30 | 50 | 118 | 25 x 55 m.E. M8 | 6218.300.50 |
| 30 | 50 | 118 | 3/4 x 55 m.E. M8 | 6218.300.34 |

m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. |
|-------------------------|-------------|
| 50 x 12 x 1.7 (3-holes) | 6419.050.00 |

| Replacement Parts | Part No. |
|---------------------------------|-----------------|
| M4x6 screw For D=24mm | 39081-0-04060-R |
| M4x5.9 screw For D=30mm | 39076-0-04000-R |
| TORX wrench for M4 screws (T15) | 39077-0-04015-2 |

6239 Z1

For jointing composite and solid materials. Right hand rotation.



Adjustment screw for
Leuco PS System
available upon request.

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|-------------------|-------------|
| 21 | 50 | 129 | 25 x 55 m.E.M8 | 6239.129.50 |
| 21 | 50 | 129 | 3/4 x 55 m.E. M8 | 6239.129.34 |
| 21 | 60 | 139 | 25 x 55 m.E.M8 | 6239.139.60 |
| 21 | 60 | 139 | 3/4 x 55 m.E. M8 | 6239.139.34 |
| 21 | 50 | 169 | MK2/M30X1.5 | 6239.169.50 |
| 21 | 60 | 178 | MK2/M30X1.5 | 6239.178.60 |

m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| 50 x 12 x 1.5 | 6419.051.00 |
| 60 x 12 x 1.5 | 6419.060.00 |

| Replacement Parts | Part No. |
|--------------------------|-----------------|
| M4 large head TORX screw | 39076-0-04000-R |
| TORX wrench (T15) | 39077-0-04015-2 |

Insert Router Bit



For use on composite and solid materials with offset inserts for chipbreakers. **6220 Z2**

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|----|-------------------|-------------|
| 16 | 34 | 85 | 14 x 40 | 6220.160.30 |
| 16 | 34 | 85 | 1/2 x 40 | 6220.160.31 |
| 16 | 45 | 95 | 14 x 40 | 6220.160.40 |
| 16 | 45 | 95 | 1/2 x 40 | 6220.160.41 |

Application same as above. **6222 Z2**

| | | | | |
|----|----|-----|-----------------|-------------|
| 20 | 50 | 120 | 20 x 50 m.E.M8 | 6222.200.20 |
| 20 | 50 | 120 | 3/4 x 50 m.E.M8 | 6222.200.34 |

LH denotes left hand rotation

m.E. denotes adjusting screw size

Solid Carbide Inserts

| Cut Length | Dimensions | Part No. |
|------------|--------------------------------|-------------|
| 34mm | (1) pc 30 x 12 x 1.5 (4-sided) | 6419.030.00 |
| | (2) pc 12 x 12 x 1.5 (4-sided) | 4200.012.00 |
| 45mm | (1) pc 30 x 12 x 1.5 (4-sided) | 6419.030.00 |
| | (3) pc 12 x 12 x 1.5 (4-sided) | 4200.012.00 |
| 50mm | (1) pc 30 x 12 x 1.5 (4-sided) | 6419.030.00 |
| | (4) pc 12 x 12 x 1.5 (4-sided) | 4200.012.00 |

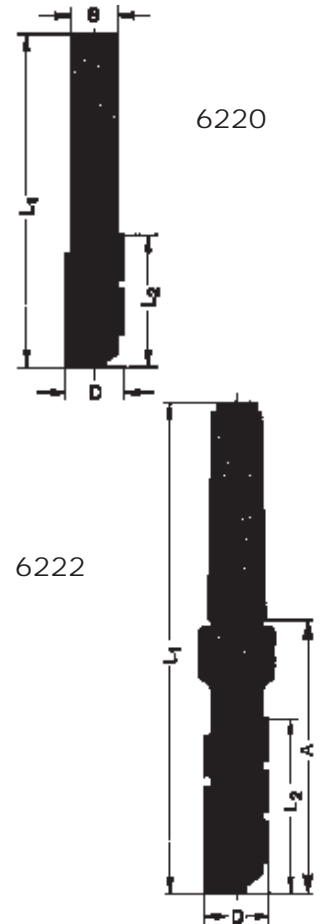
For use on composite and solid materials requiring a finish without lines. With carbide-tipped plunge point.

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|-----------------------|-------------|
| 18 | 35 | 105 | 3/4 x 55 m.E. | 6225.182.34 |
| 18 | 35 | 105 | 3/4 x 55 m.E. (LH) | 6225.182.35 |
| 18 | 35 | 105 | 25 x 55 | 6225.182.25 |
| 18 | 55 | 125 | 25 x 55 m.E. M8 | 6225.180.25 |
| 18 | 55 | 125 | 3/4 x 55 m.E. M8 | 6225.180.34 |
| 18 | 55 | 125 | 25 x 55 m.E. M8 (LH) | 6225.181.25 |
| 18 | 55 | 125 | 3/4 x 55 m.E. M8 (LH) | 6225.180.35 |
| 20 | 55 | 125 | 25 x 55 m.E. M8 | 6225.200.25 |
| 20 | 55 | 125 | 25 x 55 m.E. M8 (LH) | 6225.201.25 |
| 20 | 55 | 125 | 3/4 x 55 m.E. M8 | 6225.200.34 |
| 20 | 55 | 125 | 3/4 x 55 m.E. M8 (LH) | 6225.200.35 |
| 22 | 55 | 125 | 25 x 55 m.E. M8 | 6225.220.25 |
| 22 | 55 | 125 | 3/4 x 55 m.E. M8 | 6225.220.34 |

LH denotes left hand rotation

m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. | Replacement Parts | Part No. |
|-------------------------|-------------|-------------------|-----------------|
| 50 x 12 x 1.7 (3-holes) | 6419.050.00 | M4 x 5.9 screw | 39076-0-04000-R |
| 30 x 12 x 1.5 (4-sided) | 6419.030.00 | Torx Wrench | 39077-0-04015-2 |



6225 Z2

Adjustment screw for Leuco PS System available upon request.



6243 Z1

With up shear and down shear inserts designed for chip free cuts on two sided materials.
With TCT plunge tip.



| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|-----------------------|-------------|
| 16 | 30 | 110 | 25 x 55 m.E. M8 | 6243.160.30 |
| 16 | 30 | 110 | 25 x 55 m.E. M8 (LH) | 6243.160.31 |
| 16 | 30 | 110 | 3/4 x 55 m.E. M8 | 6243.161.30 |
| 16 | 30 | 110 | 3/4 x 55 m.E. M8 (LH) | 6243.161.31 |
| 16 | 50 | 125 | 25 x 55 m.E. M8 | 6243.160.50 |
| 16 | 50 | 125 | 25 x 55 m.E. M8 (LH) | 6243.160.51 |
| 16 | 50 | 125 | 3/4 x 55 m.E. M8 | 6243.161.50 |
| 16 | 50 | 125 | 3/4 x 55 m.E. M8 (LH) | 6243.161.51 |
| 18 | 50 | 125 | 25 x 55 m.E. M8 | 6243.180.50 |
| 18 | 50 | 125 | 25 x 55 m.E. M8 (LH) | 6243.180.51 |
| 18 | 50 | 125 | 3/4 x 55 m.E. M8 | 6243.181.50 |
| 18 | 50 | 125 | 3/4 x 55 m.E. M8 (LH) | 6243.181.51 |

LH denotes left hand rotation

| Solid Carbide Inserts | Part No. |
|--------------------------|-------------|
| 16 x 7 x 1.5 For L2=30mm | 6243.016.00 |
| 28 x 7 x 1.5 For L2=50mm | 6243.028.00 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M3 x 4 screw | 39081-0-03040-R |
| Torx Wrench (T9) | 39077-0-03009-2 |

Maximum RPM: 18,000

Insert Router Bit With Shear



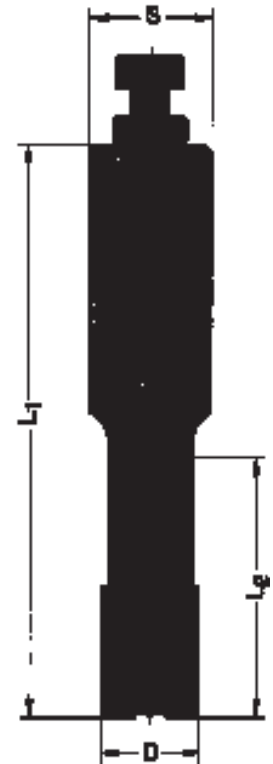
| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|-----------------------|-------------|
| 20 | 30 | 110 | 25 x 55 m.E. M8 | 6243.020.30 |
| 20 | 30 | 110 | 3/4 x 55 m.E. M8 | 6243.020.34 |
| 20 | 30 | 110 | 3/4 x 55 m.E. M8 (LH) | 6243.020.35 |
| 20 | 30 | 110 | 25 x 55 m.E. M8 (LH) | 6243.020.31 |
| 20 | 50 | 125 | 25 x 55 m.E. M8 | 6243.020.50 |
| 20 | 50 | 125 | 3/4 x 55 m.E. M8 | 6243.021.34 |
| 20 | 50 | 125 | 25 x 55 m.E. M8 (LH) | 6243.020.51 |
| 20 | 50 | 125 | 3/4 x 55 m.E. M8 (LH) | 6243.021.35 |
| 30 | 75 | 145 | 25 x 55 m.E. M8 | 6243.030.75 |

LH denotes left hand rotation m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. |
|---|-------------|
| 16 x 7 x 1.5 For L2=30 | 6243.016.00 |
| 28 x 7 x 1.5 For L2=50 | 6243.028.00 |
| 40 x 9 x 1.5 For L2=75 | 6419.040.09 |
| 7.5 x 12 x 1.5 Plunge insert for D=30mm | 4200.008.00 |

| Replacement Parts | Part No. |
|------------------------------|-----------------|
| M3 x 4 screw for D=20mm | 39081-0-03040-R |
| Torx Wrench (T9) | 39077-0-03009-2 |
| M3.5 x 4 screw for D=30mm | 39080-0-03540-R |
| M4 x 5 screw for 30mm plunge | 39081-0-04050-R |
| Torx Wrench (T19) | 39077-0-04015-2 |

6243 Z2



Adjustment screw for Leuco PS System available upon request.

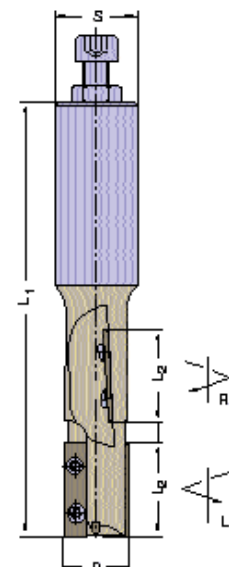


For right hand and left hand rotations. With down shear inserts designed for chip free cuts on single sided materials. Top insert used for right hand rotation, bottom insert used for left hand rotation. Adjust Z-axis (up/down) for desired rotation.

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|-------------------|-------------|
| 20 | 28 | 130 | 25 x 55 m.E. M8 | 6244.200.28 |
| 20 | 28 | 130 | 3/4 x 55 m.E. M8 | 6244.200.34 |

| Solid Carbide Inserts | Part No. | Replacement Parts | Part No. |
|-----------------------|-------------|-------------------|-----------------|
| 28 x 7 x 1.5 | 6243.028.00 | M3 x 4 screw | 39081-0-03040-R |
| | | Torx Wrench | 39077-0-03009-2 |

6244 Z2+Z2



Maximum RPM: 18,000

6223 Z1+1



Adjustment screw for Leuco PS System available upon request.

Chipbreaker style for faster feed rates. With up shear and down shear two-sided materials.

| D | L2 | L1 | A | Shank Dia./Length | Part No. |
|----|----|-----|----|-------------------|-------------|
| 22 | 42 | 115 | - | 25 x 55 m.E. M8 | 6223.220.42 |
| 22 | 42 | 115 | - | 3/4 x 55 m.E. M8 | 6223.220.34 |
| 22 | 60 | 131 | - | 25 x 55 m.E. M8 | 6223.220.60 |
| 22 | 60 | 131 | - | 3/4 x 55 m.E. M8 | 6223.221.34 |
| 22 | 42 | 115 | 80 | MK 2/M30 x 1.5 | 6223.221.42 |
| 22 | 60 | 131 | 96 | MK2/M30 x 1.5 | 6223.221.60 |

m.E. denotes adjusting screw size

| Solid Carbide Inserts | | Part No. | Replacement Parts | | Part No. |
|-----------------------|--|-------------|-------------------|-----------------|----------|
| 12 x 12 x 1.5 | | 4200.012.00 | M4 Torx screw | 39076-0-04000-R | |
| | | | Torx Wrench (T15) | 39077-0-04015-2 | |

Insert Router Bit

6226 Z1+1



Chipbreaker style for faster feed rates. With up shear and down shear two-sided materials.

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|-----|---------------------|-------------|
| 25 | 44 | 113 | 3/4" x 55 m.E. | 6226.250.34 |
| 25 | 44 | 113 | 3/4" x 55 m.E. (LH) | 6226.250.35 |
| 25 | 44 | 113 | 25 x 55 m.E. | 6226.250.44 |
| 25 | 44 | 113 | 25 x 55 m.E. (LH) | 6226.250.45 |
| 25 | 66 | 135 | 3/4 x 55 m.E. | 6226.251.34 |
| 25 | 66 | 135 | 3/4 x 55 m.E.(LH) | 6226.251.35 |
| 25 | 66 | 135 | 25 x 55 m.E. | 6226.251.66 |
| 25 | 66 | 135 | 25 x 55 m.E. (LH) | 6226.251.67 |

m.E. denotes adjusting screw size

| Solid Carbide Inserts | | Part No. | Replacement Parts | | Part No. |
|-----------------------|--|-------------|-------------------|-----------------|----------|
| 12 x 12 x 1.5 | | 4200.012.00 | M4 x5 screw | 39081-0-04050-R | |
| | | | Torx Wrench (T15) | 39077-0-04051-2 | |

Insert Router Bit

GUHDO®

For grooving, jointing and rebating on composite and solid materials.
Right hand rotation.

6240 Z2

| D | L2 | L1 | Shank Dia./Length | Part No. |
|----|----|----|-------------------|-------------|
| 40 | 30 | 99 | 25 x 55 m.E. | 6240.400.30 |
| 40 | 30 | 99 | 3/4 x 55 m.E. | 6240.400.34 |

m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. |
|---|-------------|
| 30 x 12 x 1.5 (two-sided) for jointing only | 4200.030.00 |
| 30 x 12 x 1.5 (four-sided) for bottom cutting | 6419.030.00 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 x 5.9 screw | 39076-0-04000-R |
| TORX wrench (T15) | 39077-0-04015-2 |



For jointing, and rebating on composite and solid materials. With spurs.
Right hand rotation.

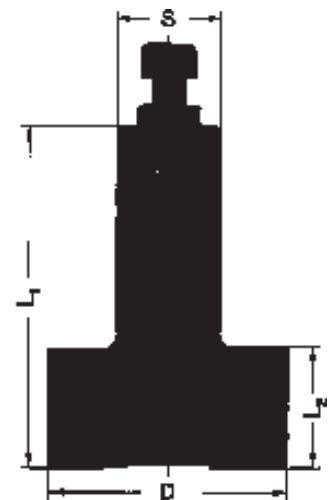
6241 Z2+V2

| D | L2 | Shank Dia./Length | Part No. |
|----|----|-------------------|-------------|
| 40 | 30 | 3/4 x 55m.E. | 6241.400.34 |
| 40 | 30 | 25 x 55m.E. | 6241.400.30 |
| 60 | 30 | 3/4 x 55m.E. | 6241.600.34 |
| 60 | 30 | 25 x 55m.E. | 6241.600.30 |
| 60 | 50 | 3/4 x 55m.E. | 6241.600.54 |
| 60 | 50 | 25 x 55m.E. | 6241.600.50 |

m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. |
|---------------------------|-------------|
| 30 x 12 x 1.5 (two-sided) | 4200.030.00 |
| 50 x 12 x 1.5 (two-sided) | 4200.050.00 |
| 14 x 14 x 2 (four-sided) | 4200.014.04 |

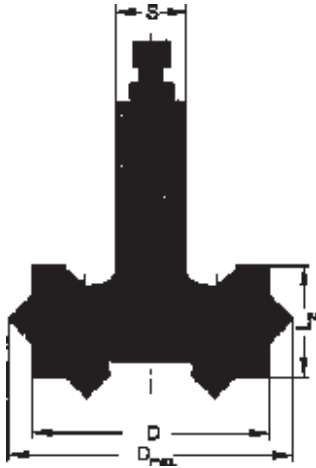
| Replacement Parts | Part No. |
|---------------------|-----------------|
| Screw for wedge | 39266-0-06012-R |
| Screw for spur M5X9 | 39130-0-05009-R |



Vari-Angle Insert Router Bit

4098 Z2

For jointing and for producing angled cuts in solid wood or composite materials. Adjustable 0 to 45° up or down in 5° increments.



Maximum RPM: 12,000

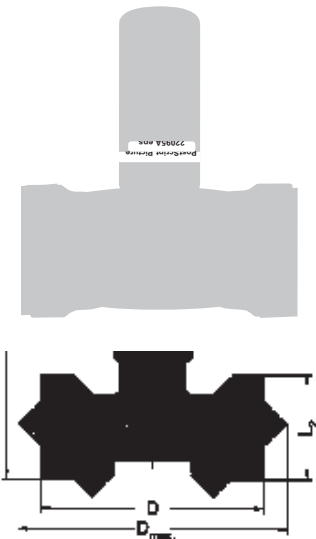
| D | D. max | L1 | Shank Dia./Length | Part No. |
|-----------------------------------|--------|----|-------------------|-------------|
| 85 | 102 | 40 | 25 x 55m.E. | 4098.085.00 |
| 85 | 102 | 40 | 3/4 x 55m.E. | 4098.085.34 |
| m.E. denotes adjusting screw size | | | | |

| Solid Carbide Inserts | Part No. |
|---|-------------|
| 40x12x1.5 (ends beveled - double sided) | 6419.040.00 |
| 40x12x1.5 (without ends beveled - double sided) | 4200.040.00 |

| Replacement Parts | Part No. |
|------------------------|-----------------|
| M6x8 screw for inserts | 39070-0-06080-R |
| Wrench SW5 | 39140-0-00501-0 |
| Wrench SW3 for inserts | 39120-0-03000-0 |

4099 Z2

For jointing and for producing angled cuts in solid wood or composite materials. Adjustable 0 to 45° up and 0 to 90° down in 2 1/2° increments.



Maximum RPM: 12,000

| D | D. max | L1 | Shank Dia./Length | Part No. |
|-----------------------------------|--------|----|-------------------|-------------|
| 85 | 102 | 40 | 25 x 55m.E. | 4099.085.00 |
| 85 | 102 | 40 | 3/4 x 55m.E. | 4099.085.34 |
| m.E. denotes adjusting screw size | | | | |

| Solid Carbide Inserts | Part No. |
|---|-------------|
| 40x12x1.5 (ends beveled - double sided) | 6419.040.00 |
| 40x12x1.5 (without ends beveled - double sided) | 4200.040.00 |

| Replacement Parts | Part No. |
|--------------------------|-----------------|
| M6 x 8 screw for inserts | 39070-0-06080-R |
| M5 x 16 screw | 39165-0-05016-R |
| Wrench SW4 | 39140-0-00401-0 |
| Wrench SW3 for inserts | 39120-0-03000-0 |

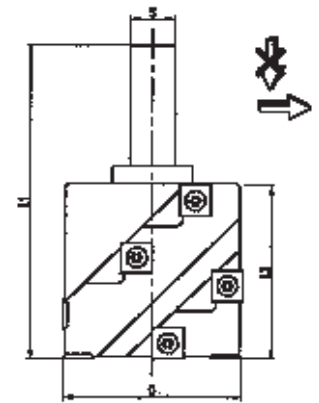
Insert Router Bit For Hogging



Insert router bit for hogging composite and solid woods. The helical design produces an aggressive cutting action and fast chip removal. Produced with an aluminium body mounted on an arbor.

6234

| D | L2 | S | Z | V | Part No. |
|----|----|------|---|---|-------------|
| 80 | 80 | 3/4" | 2 | 2 | 6234.800.34 |
| 80 | 80 | 25 | 2 | 2 | 6234.800.25 |



| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| 15 x 15 x 2.5 | 4200.015.11 |
| 14 x 14 x 2.0 | 4200.014.04 |

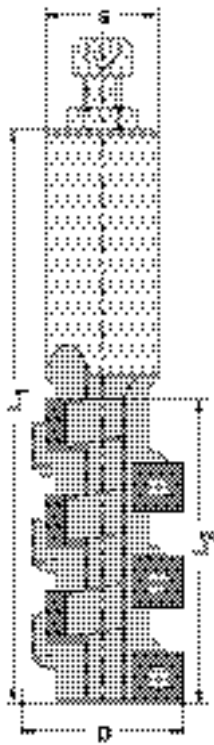
| Replacement Parts | Part No. |
|---------------------------|-----------------|
| M5x14 (for 15 x 15 x 2.5) | 39085-0-05012-R |
| M5x8 (for 14 x 14 x 2.0) | 39130-0-05009-R |
| T20 wrench | 39077-0-00020-R |

Maximum RPM: 12,000

Insert Router Bit For Hogging

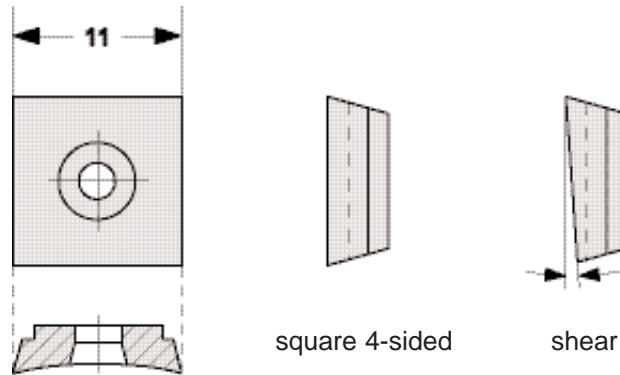
6232

A spiral router bit designed for cutting composite materials and solid woods. Not recommended for finish cuts. Uses special hollow knives for high feed rates and maximum chip removal.



| D | L2 | Z/A | Shank Dia./Length | Part No. |
|----|----|-----|-------------------|-------------|
| 26 | 29 | 2/3 | 25 x 55m.E. | 6232.260.00 |
| 26 | 56 | 2/6 | 25 x 55m.E. | 6232.261.00 |
| 35 | 65 | 3/9 | 25 x 55m.E. | 6232.350.00 |
| 26 | 29 | 2/3 | 3/4 x 55m.E. | 6232.260.34 |
| 26 | 56 | 2/6 | 3/4 x 55m.E. | 6232.261.34 |
| 35 | 65 | 3/9 | 3/4 x 55m.E. | 6232.350.34 |

m.E. denotes adjusting screw size



| Solid Carbide Inserts | Part No. |
|---------------------------------|-------------|
| 11 x 11 x 4 square, 2-sided | 6232.011.00 |
| 11 x 11 x 4 with shear, 2-sided | 6232.011.10 |

| Replacement Parts | Part No. |
|-------------------------------|-----------------|
| Torx screw M 3 x 6 for D 26 | 39084-0-03060-R |
| Torx screw M 3 x 7,5 for D 35 | 39084-0-03075-R |
| Torx "T" handle key 10 | 39077-0-03010-3 |

Adjustment screw for
Leuco PS System
available upon request.

Novitec Router Bit

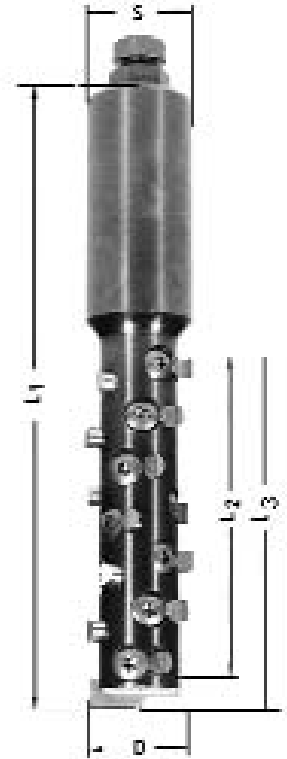


A spiral router bit designed for roughing/hogging composite materials and solid woods. Not recommended for finish cuts. Replacement tips available in carbide and diamond with straight, 8° up shear or 8° down shear cutting styles. The NOVITEC is supplied with straight carbide knives unless specified otherwise.

6235 Z3

| D | L2/L3 | L1 | Z/AS | Shank Dia./Length | Part No. |
|------|-------|-----|------|-------------------|-------------|
| 16 | 42/48 | 110 | 3/9 | 14x55 | 6235.116.42 |
| | 42/48 | 110 | 3/9 | 14x55(LH) | 6235.116.43 |
| | 56/62 | 125 | 3/12 | 14x55 | 6235.116.56 |
| | 42/48 | 110 | 3/9 | 25x55m.E. | 6235.016.42 |
| | 56/62 | 125 | 3/12 | 25x55m.E. | 6235.016.56 |
| 18 | 28/34 | 104 | 3/6 | 25x55m.E. | 6235.018.28 |
| | 42/48 | 118 | 3/9 | 25x55m.E. | 6235.018.42 |
| | 56/62 | 132 | 3/12 | 25x55m.E. | 6235.018.56 |
| | 56/62 | 132 | 3/12 | 25x55m.E.(LH) | 6235.018.57 |
| 20 | 42/48 | 118 | 3/9 | 25x55m.E. | 6235.020.42 |
| | 56/62 | 132 | 3/12 | 25x55m.E. | 6235.020.56 |
| 24 | 42/48 | 118 | 3/9 | 25x55m.E. | 6235.024.42 |
| | 56/62 | 126 | 3/12 | 25x55m.E. | 6235.024.56 |
| | 56/62 | 126 | 3/12 | 25x55m.E.(LH) | 6235.024.57 |
| | 70/76 | 140 | 3/15 | 25x55m.E.. | 6235.024.70 |
| | 70/76 | 140 | 3/15 | 25x55m.E.(LH) | 6235.024.71 |
| | 83/90 | 153 | 3/18 | 25x55 | 6235.024.83 |
| 3/4" | 42/48 | 105 | 3/9 | 3/4"x50m.E. | 6235.019.42 |
| | 56/62 | 119 | 3/12 | 3/4"x50m.E. | 6235.019.56 |

LH denotes left hand rotation • m.E. denotes adjusting screw size
Z/AS denotes no. of wings/Total no. of knives per cutter



| Solid Carbide Knives for D=16-20 mm, 3/4 | Part No. |
|--|-------------|
| Straight | 6235.055.00 |
| 8° up shear | 6235.055.01 |
| 8° down shear | 6235.055.02 |

| Solid Carbide Knives for D=24 | Part No. |
|-------------------------------|-------------|
| Straight | 6235.070.00 |
| 8° up shear | 6235.070.01 |
| 8° down shear | 6235.070.02 |

Features:

- quiet cutting
- low cutting pressure on the tool
- knives resharpenable 3 to 4 times
- special sharpening fixture available (see spare parts)
- recommended feedrates:
composites - 400"/min.
solid woods - 325"/min.
- maximum RPM: 24,000

Adjustment screw for Leuco PS System available upon request.

Fractional shank sizes available upon request.

Novitec Router Bit/ Replacement Parts



TCT Tips

Size 1: for Ø 16-20 mm / 3/4"
L1=5.5 mm
Size 2: for Ø 21 mm and up
L2=7.0 mm



straight (no shear)



with 8° up shear



with 8° down shear
(as with RH rotation)



TCT plunge point

Solid Carbide Plunge Tips

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

Torx Screws for Knives

| | | |
|----------------|---------------------|-----------------|
| M3 X 5.5 (T9) | For D=16-20mm, 3/4" | 39085-0-03055-R |
| M4 X 6.7 (T15) | For D=24 | 39085-0-04067-R |

Torx Screws for Knives

| | | |
|--------------|---------------------|-----------------|
| M3 X 8 (T9) | For D=16-20mm, 3/4" | 39084-0-03089-R |
| M3 X 8 (T15) | For D=22 & 24mm | 39084-0-03080-R |

| | |
|-----------------|-----------------|
| TORX Wrench T9 | 39077-0-03009-2 |
| TORX Wrench T15 | 39077-0-04015-2 |

| | |
|--|-------------|
| Sharpening fixture for knives (call for information) | 6235.500.00 |
|--|-------------|

Jointing



Rebate



Sizing



Ramping



Router Bit For Planing



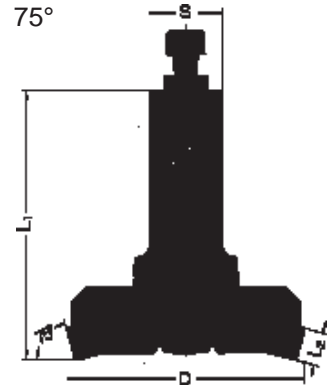
An insert router bit designed for use on CNC machines for planing composite materials creating a true flat surface. Form A produces chip free finishes on the outside edges of the material. Form B is a better all around tool that can also be used for rebates but for use when a lower quality finish is acceptable on the outside edges of the material. The special highly polished knives may be resharpened several times. Right hand rotation. Tool body mounted on a shaft.

4321 Z4

Arbors with SK30,ISO30, SK40 & HSK63F available upon request

| Form | D | L2 | L1 | Shank Dia./Length | Part No. |
|------|----|----|----|-------------------|-------------|
| A | 80 | 11 | 93 | 3/4" x 55 | 4321.080.19 |
| A | 80 | 11 | 93 | 20 x 55 | 4321.080.20 |
| A | 80 | 11 | 93 | 25 x 25 | 4321.080.00 |
| B | 80 | 11 | 93 | 3/4" x 55 | 4321.081.19 |
| B | 80 | 11 | 93 | 20 x 55 | 4321.081.20 |
| B | 80 | 11 | 93 | 25 x 55 | 4321.081.00 |

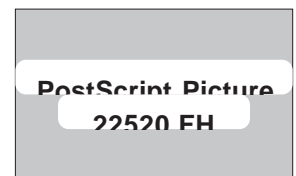
Form A
75°



Form B
90°



Form A Form B



| | Part No. |
|--------------------------------------|-------------|
| Tool body without shaft Form A (75°) | 4321.075.00 |
| Tool body without shaft Form B (90°) | 4321.090.00 |
| Knives 11 x 11 x 4 for Form A | 4320.011.00 |
| Knives 11 x 11 x 4 for Form B | 6232.011.00 |

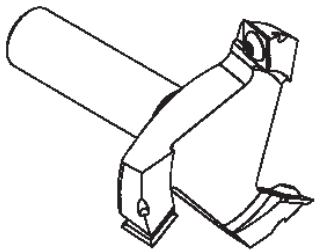
| Replacement Parts | Part No. |
|----------------------------|-----------------|
| M3 x 7.5 torx screw (T 10) | 39084-0-03075-R |
| Torx wrench T 10 | 39077-0-03010-3 |
| SW 6 wrench | 39140-0-00601-0 |

Maximum RPM: 12,000

Insert Router Bit

6246

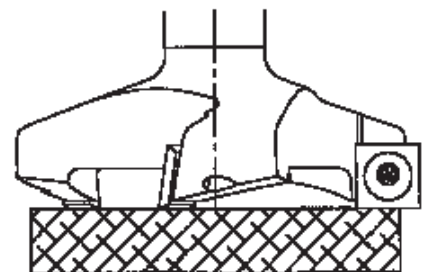
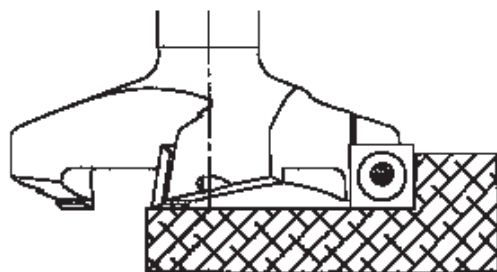
Insert router bit for planing and spoilboard surfacing on CNC routers and point to point machines. With up shear for machining composite and solid woods.



| D | L2 | L1 | Shank Dia./Length | Z | Part. No |
|----|----|----|-------------------|---|-------------|
| 80 | 12 | 90 | 3/4" x 75 | 3 | 6246.800.34 |

| Replacement Parts | Part No. |
|-------------------|-------------|
| 12 x 12 x 1.5 | 4200.012.00 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 x 5.9 screw | 39076-0-04000-R |
| Torx wrench (T15) | 39077-0-04015-2 |



Maximum RPM: 12,000

Multi-Use Router Bit



Multi-use router bit for boring, grooving, rebating, jointing and planing.
When boring over 10 mm depths, RPM must be 12,000.

6245 Z2+2

| D | L2 | Z/A | Shank Dia./Length | Part No. |
|----|----|-----|-------------------|-------------|
| 35 | 30 | 90 | 3/4"x55 m.E. | 6245.350.34 |
| 35 | 30 | 90 | 25x55 m.E. | 6245.350.30 |
| 40 | 30 | 90 | 3/4"x55m.E. | 6245.400.34 |
| 40 | 30 | 90 | 25x55 m.E. | 6245.400.30 |
| 60 | 30 | 105 | 3/4"x55 m.E. | 6245.600.34 |
| 60 | 30 | 105 | 25x55 m.E. | 6245.600.30 |
| 80 | 12 | 78 | 3/4"x55 m.E. | 6245.800.34 |
| 60 | 30 | 105 | 25x55 m.E. | 6245.600.30 |
| 80 | 12 | 78 | 3/4"x55 m.E. | 6245.800.34 |
| 80 | 12 | 78 | 25x55 m.E. | 6245.800.30 |



| Solid Carbide Inserts | Part No. |
|-----------------------|---|
| 12x12x1.5 | Peripheral insert for D=80 plunge insert for D=35 & 40 |
| 20x12x1.5 | plunge insert for D=60 |
| 30x12x1.5 | plunge insert for D=80 |
| 30x12x1.5 | Peripheral insert for D=35,40 & 60 |



Boring & Grooving Rebating Jointing Planing

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 screw | 39076-0-04000-R |
| Torx Wrench | 39077-0-04015-2 |

Maximum RPM: 12,000

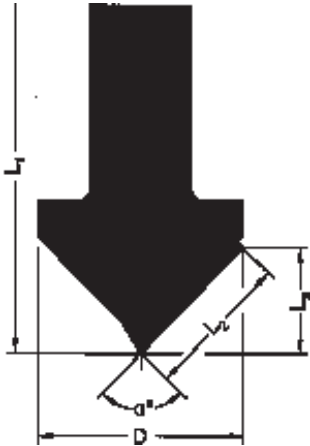
V-Groove/Folding Insert Router Bit

4320 Z1

Designed for V-grooving, bevelling and folding.
Using special inserts for producing 60° or 91° angles.

| D | Deg. | L2 | L3 | L1 | Shank | Part No. |
|------|------|------|----|-----|--------------|-------------|
| 41.5 | 60° | 41.5 | 35 | 118 | 25 x 55m.E. | 4320.415.25 |
| 41.5 | 60° | 41.5 | 35 | 118 | 3/4 x 55m.E. | 4320.415.34 |
| 50 | 90° | 36.4 | 25 | 93 | 25 x 55m.E. | 4320.050.25 |
| 50 | 90° | 36.4 | 25 | 93 | 3/4 x 55m.E. | 4320.050.34 |

m.E. denotes adjusting screw size



| Solid Carbide Inserts | Part No. |
|--------------------------------------|-------------|
| 40 x 12 x 1.5 Standard grade for 90° | 4320.040.00 |
| 40 x 12 x 1.5 D050 grade for 90° | 4320.041.00 |
| 50 x 12 x 1.5 Standard grade for 60° | 4320.050.00 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 x 4 screw | 39076-0-04040-R |
| Torx wrench (T15) | 39077-0-04015-2 |

V-grooving Bevelling Folding cuts



Maximum RPM: 18,000

45° Insert Router Bit

For producing 45° angle cuts.

4322 Z2

| D | Deg. | L2 | L3 | L1 | Shank | Part No. |
|----|------|----|----|----|--------------|-------------|
| 74 | 45° | 40 | 28 | 95 | 3/4 x 55m.E. | 4322.074.34 |
| 74 | 45° | 40 | 28 | 95 | 20 x 55m.E. | 4322.074.20 |
| 74 | 45° | 40 | 28 | 95 | 25 x 55m.E. | 4322.074.25 |

| Solid Carbide Inserts | Part No. | Replacement Parts | Part No. |
|-----------------------|-------------|-------------------|-----------------|
| 40 x 12 x 1.5 | 4200.040.00 | M4 x 5.9 screw | 39076-0-04000-R |
| | | Torx Wrench (T15) | 39077-0-04015-2 |



Maximum RPM: 12,000

Decorative Insert Router Bit

GUHDO®

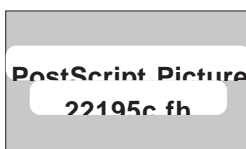
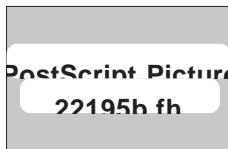
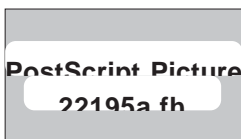
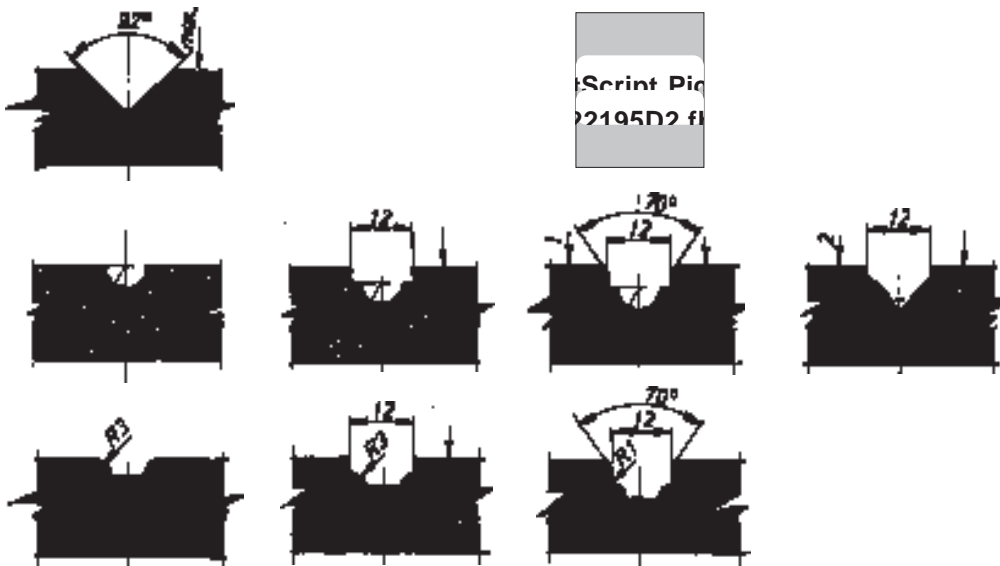
Decorative insert router bit with nine standard profiles (see below).
Special profiles available upon request.

4319 Z1

| D | L3 | A | L1 | Shank Dia./Length | Part No. |
|----|-----|----|------|-------------------|-------------|
| 17 | 8.5 | 27 | 57.5 | 10 x 30 | 4319.012.00 |

| Solid Carbide Inserts | Part No. |
|-------------------------------|-------------|
| 12 X 12 X 1.5 (profile No. 1) | 4200.012.00 |
| Profile No. 2,3, & 4 | 4319.012.02 |
| Profile No. 5 | 4319.012.05 |
| Profile No. 6,7, & 8 | 4319.012.06 |
| Profile No. 9 | 4319.012.09 |
| Profile No. 10 | 4319.012.10 |
| Profile No. 11 | 4319.012.11 |
| Profile No. 12 | 4319.012.12 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| Torx screw M4x4.8 | 39081-0-04048-R |
| Torx wrench | 39077-0-04015-R |



Decorative Insert Router Bit

4322 Z1

Similar to series No. 4319 but designed to produce larger decorative profiles in solid woods and composite materials. Profile area per shaded diagram below.



Print
as / Ko
Av. area for
profiling (1:1)



| D | L3 | L1 | Shank Dia./Length | Part No. |
|----|------|----|-------------------|-------------|
| 24 | 11.8 | 88 | 12x40 | 4322.024.00 |

Total body price does not include profile inserts.

| Solid Carbide Inserts | Part No. |
|-------------------------|-------------|
| 17x17x2.0 for 92° angle | 4200.017.17 |
| Special Profile | 4322.017.00 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 screw | 39076-0-04000-R |
| Torx screw (T15) | 39077-0-04015-2 |

Profile Insert Router Bit

4096 Z1

Round nose (core box) insert router bit for producing round nose profiles in solid wood and composite materials.



| D | R | L2 | Shank Dia. | Part No. |
|-----|------|------|------------|-------------|
| 1/2 | 1/4 | 1/4 | 1/4 | 4096.127.63 |
| 1/2 | 1/4 | 1/4 | 1/2 | 4096.127.12 |
| 5/8 | 5/16 | 5/16 | 1/4 | 4096.160.63 |
| 5/8 | 5/16 | 5/16 | 1/2 | 4096.160.12 |
| 3/4 | 3/8 | 3/8 | 1/4 | 4096.190.63 |
| 3/4 | 3/8 | 3/8 | 1/2 | 4096.190.12 |

| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| 1/4" radius | 4096.635.00 |
| 5/16" radius | 4096.080.00 |
| 3/8" radius | 4096.953.00 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M3.5 X 6.5 screw | 39082-0-03565-0 |
| Torx wrench (T15) | 39077-0-04015-1 |

Profile Insert Router Bit



Router bit designed to produce various profiles using the standard inserts shown below.
Special profiles available upon request. Can be supplied with a bearing.

4097 Z2

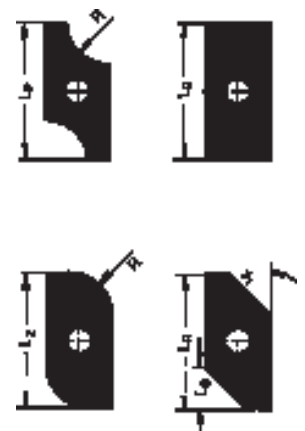
| D | L2 | S | Flute | L1 | Part No. |
|----|-----|------|-------|------|-------------|
| 26 | 2-5 | 19.5 | 16-22 | 1/4 | 4097.026.63 |
| 26 | 2-5 | 19.5 | 16-22 | 1/2" | 4097.026.12 |
| 32 | 6-8 | 26 | 16-20 | 1/4" | 4097.032.63 |
| 32 | 6-8 | 26 | 16-20 | 1/2" | 4097.032.12 |
| 36 | 10 | 30 | 16 | 1/4" | 4097.036.63 |
| 36 | 10 | 30 | 16 | 1/2" | 4097.036.12 |

Metric shank sizes also available.



Solid Carbide Inserts

| Radius | Size | Part No. |
|----------------------------|-----------------|-------------|
| Round over inserts | | |
| 2 | 19.5 x 9 x 1.5 | 4097.195.02 |
| 3 | 19.5 x 9 x 1.5 | 4097.195.03 |
| 4 | 19.5 x 9 x 1.5 | 4097.195.04 |
| 5 | 19.5 x 9 x 1.5 | 4097.195.05 |
| 6 | 26 x 12.5 x 1.5 | 4097.026.06 |
| 8 | 26 x 12.5 x 1.5 | 4097.026.08 |
| 10 | 30 x 14.5 x 1.5 | 4097.030.10 |
| Cove inserts | | |
| 5 | 19.5 x 9 x 1.5 | 4097.196.05 |
| 6 | 26 x 12.5 x 1.5 | 4097.027.06 |
| 8 | 26 x 12.5 x 1.5 | 4097.027.08 |
| 10 | 30 x 14.5 x 1.5 | 4097.031.10 |
| Straight and Bevel inserts | | |
| 4 sided straight | 19.5 x 9 x 1.5 | 4097.195.00 |
| 4 sided straight | 26 x 12.5 x 1.5 | 4097.026.00 |
| 4 sided straight | 30 x 14.5 x 1.5 | 4097.030.00 |
| 45° Bevel L3 = 5mm | 19.5 x 9 x 1.5 | 4097.197.05 |
| 45° Bevel L3 = 8mm | 26 x 12.5 x 1.5 | 4097.197.08 |
| 45° Bevel L3 = 10mm | 30 x 14.5 x 1.5 | 4097.197.10 |



Radius/Chamfer Insert Router Bit

6976 Z2

For producing radius and chamfers on the top and bottom edges of composite and solid materials.



| Radius/Deg. | D | L1 | Shank Dia./Length | Part No. |
|-------------|----|-----|-------------------|-------------|
| 2 | 40 | 100 | 16 x 60m.E. | 6976.040.02 |
| 3 | 40 | 100 | 16 x 60m.E. | 6976.040.03 |
| 4 | 40 | 100 | 16 x 60m.E. | 6976.040.04 |
| 5 | 40 | 100 | 16 x 60m.E. | 6976.040.05 |
| 45° | 40 | 100 | 16 x 60m.E. | 6976.040.45 |

| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| 15 x 18 x 2 R=2 | 6976.015.02 |
| 15 x 18 x 2 R=3 | 6976.015.03 |
| 15 x 18 x 2 R=4 | 6976.015.04 |
| 15 x 18 x 2 R=5 | 6976.015.05 |
| 15 x 18 x 2 45° | 6976.015.45 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 x 5 screw | 39081-0-04050-R |
| Torx wrench (T15) | 39077-0-04015-2 |

Maximum RPM: 18,000
Maximum material thickness: 50 mm (2")



Combination Insert Router Bit

GUHDO®

A three piece cutterset with spacers mounted on adapter No.6371, 6374 & 6377 for jointing, chamfering and rounding profiles in composite and solid wood materials.
Interchangeable cutters to produce the desired shapes indicated below.
Maximum RPM: 12,000.

4330 Z2

Table to determine cutters required based on material thickness.

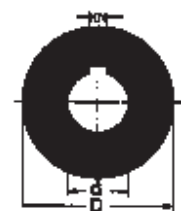
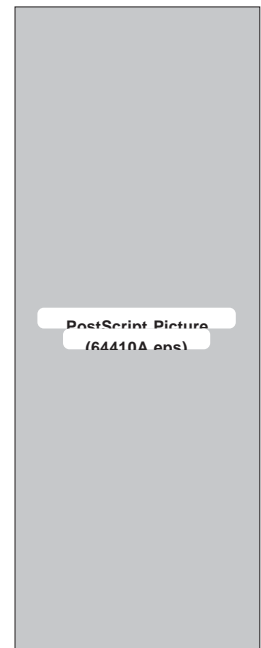
| Jointing Cutter L2 | | | |
|---------------------------|--------------------|--------------------|--------------------|
| Radius/ Chamfer Cutter | 25 | 40 | 50 |
| | Material Thickness | Material Thickness | Material Thickness |
| Size 1 | | | |
| R=3mm | 13-29 | 23-44 | 33-54 |
| R=4mm | 13-31 | 23-46 | 33-56 |
| R=5mm | 13-33 | 23-48 | 33-58 |
| 3 x 45° | 8-29 | 18-44 | 28-54 |
| Size 2 | | | |
| R=6mm | 19-35 | 29-50 | 39-54 |
| R=8mm | 19-39 | 29-54 | 39-58 |
| 3 x 45° | 8-29 | 18-44 | 28-54 |
| Size 3 | | | |
| R=10mm | 28-44 | 38-59 | 48-69 |
| R=12mm | 28-48 | 38-63 | 48-73 |
| 3 x 45° | 8-29 | 18-44 | 28-54 |

Table to determine adapter spindle (L2) length.

| Jointing Cutter L2 | | | |
|---------------------------|-------|----|----|
| Radius/ Chamfer Cutter | 25 | 40 | 50 |
| R 3, R 4, R 5, 45° | L2=40 | 55 | 70 |
| R 6, R 8, 45° | 55 | 70 | 70 |
| R 10, R 12, 45° | 55 | 70 | 70 |

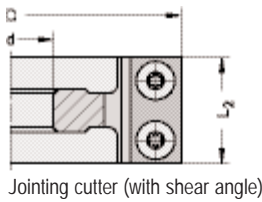
| Ring Set | | | |
|----------|----|----------|-----------------|
| d | D | Key Size | Part No. |
| 20 | 35 | 6 x 1.5 | 39548-0-00001-1 |

Set consisting of 5.5x5.0/2x2.0/4x1.0/3x0.5/5x0.1 spacers

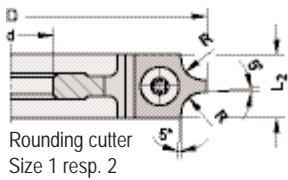


Individual Cutters

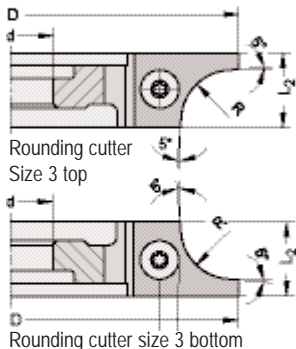
| Cutter | R/Deg. | Cutter Size | Part No. |
|------------------|--------|-----------------|-------------|
| Joining | - | 80 x 25 x 20 | 4330.080.25 |
| Joining | - | 80 x 40 x 20 | 4330.080.40 |
| Joining | - | 80 x 50 x 20 | 4330.080.50 |
| Size 1 | | | |
| Radius | 2 | 92 x 15 x 20 | 4330.092.20 |
| Radius | 3 | 92 x 15 x 20 | 4330.092.30 |
| Radius | 4 | 92 x 15 x 20 | 4330.092.40 |
| Radius | 5 | 92 x 15 x 20 | 4330.092.50 |
| Chamfer | 45° | 92 x 15 x 20 | 4330.092.45 |
| Size 2 | | | |
| Radius | 6 | 98 x 22 x 20 | 4330.098.60 |
| Radius | 8 | 98 x 22 x 20 | 4330.098.80 |
| Chamfer | 45° | 98 x 22 x 20 | 4330.098.45 |
| Size 3 | | | |
| Radius (top) | 10 | 106 x 17.5 x 20 | 4330.106.10 |
| Radius (top) | 12 | 106 x 17.5 x 20 | 4330.106.12 |
| Chamfer (top) | 45° | 106 x 17.5 x 20 | 4330.106.45 |
| Size 3 | | | |
| Radius (bottom) | 10 | 106 x 17.5 x 20 | 4330.106.11 |
| Radius (bottom) | 12 | 106 x 17.5 x 20 | 4330.106.13 |
| Chamfer (bottom) | 45° | 106 x 17.5 x 20 | 4330.106.46 |



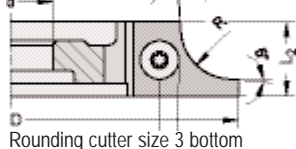
Joining cutter (with shear angle)



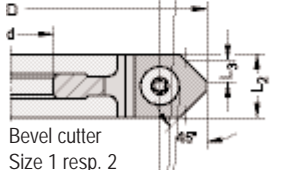
Rounding cutter
Size 1 resp. 2



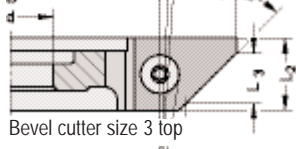
Rounding cutter
Size 3 top



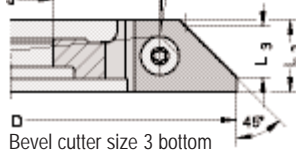
Rounding cutter size 3 bottom



Bevel cutter
Size 1 resp. 2



Bevel cutter size 3 top



Bevel cutter size 3 bottom

| Solid Carbide Inserts | Part No. |
|--|-------------|
| 25 x 12 x 1.5 25mm joining cutter | 4200.025.00 |
| 40 x 12 x 1.5 40mm joining cutter | 4200.040.00 |
| 50 x 12 x 1.5 50mm joining cutter | 4200.050.00 |
| Size 1 | |
| 15 x 18 x 2 R=2 (size 1) | 4330.015.02 |
| 15 x 18 x 2 R=3 (size 1) | 4330.015.03 |
| 15 x 18 x 2 R=4 (size 1) | 4330.015.04 |
| 15 x 18 x 2 R=5 (size 1) | 4330.015.05 |
| 15 x 18 x 2 45° L3=6mm (size 1) | 4330.015.45 |
| Size 2 | |
| 22 x 21 x 2 R=6 (size 2) | 4330.022.06 |
| 22 x 21 x 2 R=8 (size 2) | 4330.022.08 |
| 22 x 21 x 2 45° L3=9mm (size 2) | 4330.022.45 |
| Size 3 | |
| 17.5 x 26 x 2 R=10 (top - size 3) | 4330.175.10 |
| 17.5 x 26 x 2 R=12 (top - size 3) | 4330.175.12 |
| 17.5 x 26 x 2 45° L3=13mm (top - size 3) | 4330.175.45 |
| 17.5 x 26 x 2 R=10 (bottom - size 3) | 4330.175.11 |
| 17.5 x 26 x 2 R=12 (bottom - size 3) | 4330.175.13 |
| 17.5 x 26 x 2 45° L=13mm (bottom - size 3) | 4330.176.46 |

Adjustable Radius/ Chamfer Router Bit



An adjustable insert router bit designed to joint, radius and chamfer top and bottom edges of composite and solid materials. Special inserts available for 1/2" and 5/8" thick material.
Tool body price does not include inserts.

6975 Z2

| D | L3 | A | L1 | Shank Dia./Length | Part No. |
|---------------|----|------------|-----|--------------------|-------------|
| Size 1 | | | | | |
| 28-34 | 20 | 3-6 & 45° | 113 | 3/4" x 55 m.E. | 6975.285.23 |
| | | | 113 | 20 x 55 m.E. | 6975.286.23 |
| | | | 113 | 25 x 55 m.E. | 6975.280.23 |
| | | | 113 | 3/4" x 55m.E. (LH) | 6975.285.24 |
| | | | 113 | 25 x 55m.E. (LH) | 6975.280.24 |
| | | | 144 | MK2/M30 x 1.5 | 6975.281.23 |
| Size 2 | | | | | |
| 49-57 | 35 | 6-10 & 45° | 150 | 25 x 55 m.E. | 6975.490.06 |
| | | | 150 | 25 x 55 m.E.(LH) | 6975.491.06 |

Size 1

Rounding over:

$h_1 = 19 - 34$ mm

Bevelling:

$h_1 = \text{max. } 42$ mm

$h_2 = 13 - 29$ mm



RPM = 18000

| Solid Carbide Inserts for D=28-34 | Part No. |
|--|-------------|
| 40 x 17.2 x 2.2 R=3 Top | 6975.040.03 |
| 40 x 17.2 x 2.2 R=3 Bottom | 6975.041.03 |
| 40 x 18.2 x 2.2 R=4 Top | 6975.040.04 |
| 40 x 18.2 x 2.2 R=4 Bottom | 6975.041.04 |
| 40 x 19.2 x 2.2 R=5 Top | 6975.040.05 |
| 40 x 19.2 x 2.2 R=5 Bottom | 6975.041.05 |
| 40 x 20.2 x 2.2 R=6 Top | 6975.040.06 |
| 40 x 20.2 x 2.2 R=6 Bottom | 6975.041.06 |
| 40 x 20.2 x 2.2 45° Top | 6975.040.45 |
| 40 x 20.2 x 2.2 45° Bottom | 6975.041.45 |
| 40 x 20.8 x 2.2 Blank insert | 6975.040.00 |
| 40 x 20.8 x 2.2 Top (special profile) | 6975.040.10 |
| 40 x 20.8 x 2.2 Bottom (special profile) | 6975.040.20 |

Size 2

Rounding over:

$h_1 = 35 - 56$ mm

Bevelling:

$h_1 = \text{max. } 56$ mm

$h_2 = 22 - 43$ mm



RPM = 12000

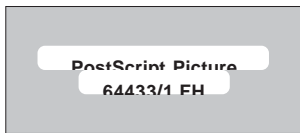
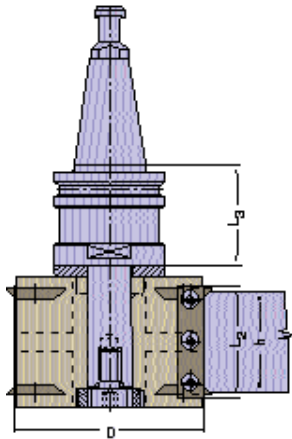
| Solid Carbide Inserts for D=49-57 | Part No. |
|-----------------------------------|-------------|
| 50 x 20.3 x 2.2 R=6 Top | 6975.050.06 |
| 50 x 20.3 x 2.2 R=6 Bottom | 6975.051.06 |
| 50 x 20.3 x 2.2 R=8 Top | 6975.050.08 |
| 50 x 20.3 x 2.2 R=8 Bottom | 6975.051.08 |
| 50 x 20.3 x 2.2 R=10 Top | 6975.050.10 |
| 50 x 20.3 x 2.2 R=10 Bottom | 6975.051.10 |
| 50 x 20.3 x 2.2 45° | 6975.050.45 |
| 50 x 20.3 x 2.2 45° | 6975.051.45 |

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 screw | 39076-0-04000-R |
| Torx wrench (T 15) | 39077-0-04015-2 |

Adjustable Radius/Chamfer Router Bit

4336 Z2

An adjustable insert router bit designed to joint, radius and chamfer top and bottom edges of composite and solid materials. Supplied with an aluminum body mounted on an adaptor. For right and left hand rotations.



Maximum RPM: 18,000
50mm inserts with alternating shear
Aluminium body for weight reduction

| D | L2 | h | L3 | Shank Dia./Length | Part No. |
|----|----|-------|----|-------------------------|-------------|
| 85 | 50 | 20-45 | 45 | SK30 | 4336.085.30 |
| 85 | 50 | 20-45 | 45 | SK30 (SCM / Morbidelli) | 4336.085.31 |
| 85 | 50 | 20-45 | 45 | SK40 | 4336.085.40 |
| 85 | 50 | 20-45 | 45 | HSK63F | 4336.085.63 |
| 85 | 50 | 20-45 | - | 25 x 55m.E. | 4336.085.25 |
| 85 | 50 | 20-45 | - | 3/4 X 55m.E. | 4336.085.34 |

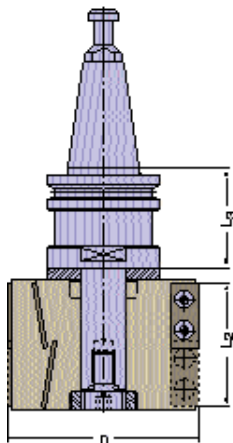
| Solid Carbide Inserts | Part No. |
|-----------------------------------|-------------|
| 50 x 12 x 1.7 (3 holes) | 6419.050.00 |
| Chamfer knives 45° | 4336.000.45 |
| Radius knives R=1.5 mm | 4336.000.15 |
| Radius knives R=2.0 mm | 4336.000.20 |
| Radius knives R=3.0 mm | 4336.000.30 |
| Aluminum body 85 x 50 x 20 kn z=2 | 4336.085.50 |

| Replacement Parts | Part No. |
|---------------------|-----------------|
| M4 screw (T15) | 39076-0-04000-R |
| M6 X 35 screw (T15) | 39085-0-06035-R |
| Torx wrench T 15 | 39077-0-04015-2 |

Router Bit For Jointing

4337 Z2

With upshear and downshear inserts designed for chip free cuts on two sided materials. Supplied with an aluminum body mounted on an adaptor. For right and left hand rotations.



Maximum RPM: 12,000
Aluminium body for weight reduction

| D | L2 | L3 | Shank Dia./Length | Part No. |
|----|----|----|----------------------|-------------|
| 85 | 56 | 45 | SK30 | 4337.085.30 |
| 85 | 56 | 45 | SK40 | 4337.085.40 |
| 85 | 56 | 45 | SK30 (SCMMorbidelli) | 4337.085.31 |
| 85 | 56 | 45 | HSK63F | 4337.085.63 |
| 85 | 56 | - | 25 x 55m.E. | 4337.085.25 |
| 85 | 56 | - | 3/4 X 55m.E. | 4337.085.34 |

| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| 30 x 12 x 1.5 | 4200.030.00 |
| Aluminum body | |
| 85 x 55 x 20 kn z=2 | 4337.085.55 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 screw (T15) | 39076-0-04000-R |
| Torx wrench T 15 | 39077-0-04015-2 |

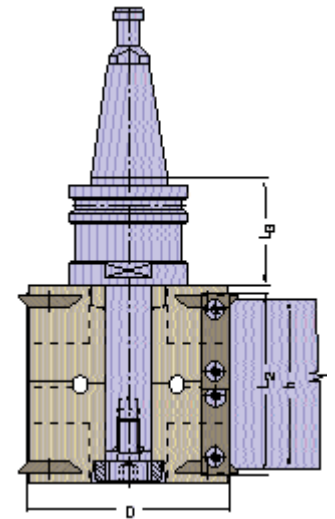
Adjustable Radius/ Chamfer Router Bit

GUHDO®

An adjustable insert router bit designed to joint, radius and chamfer top and bottom edges of composites and solid materials up to 75mm thick. Supplied with an aluminum body mounted on an adapter. For right and left hand rotations.

4336 Z2

| D | L2 | h | L3 | Shank Dia./Length | Part No. |
|----|----|-------|----|-----------------------|-------------|
| 85 | 76 | 45-75 | 45 | SK30 | 4336.185.30 |
| 85 | 76 | 45-75 | 45 | SK30 (SCM/Morbidelli) | 4336.185.31 |
| 85 | 76 | 45-75 | 45 | SK40 | 4336.185.40 |
| 85 | 76 | 45-75 | 45 | HSK 63-F | 4336.185.63 |
| 85 | 76 | 45-75 | 45 | 25 x 55m.E. | 4336.185.25 |
| 85 | 76 | 45-75 | 45 | 3/4 x 55m.E. | 4336.185.34 |



| Solid Carbide Inserts | Part No. |
|-----------------------------------|-------------|
| 40 x 12 x 1.5 | |
| Chamfer Knives 45° | 4336.000.45 |
| Radius Knives R=1.5mm | 4336.000.15 |
| Radius Knives R=2mm | 4336.000.20 |
| Radius Knives R=3mm | 4336.000.30 |
| Aluminum body 85 x 40 x 20 top | 4336.086.40 |
| Aluminum body 85 x 40 x 20 bottom | 4336.085.41 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 screw | 39076-0-04000-R |
| M6 x 35 screw | 39085-0-06035-R |
| TORX wrench (T15) | 39077-0-04015-2 |

Maximum RPM: 12,000
Aluminium body for
weight reduction

Multi-Profile Insert Router Bit

4095 Z1

For cutting inside door profiles, rosettes, etc. The 4095 uses double sided carbide inserts that are positioned on a shear cutting angle for improved finishes. Profile area per shaded diagram below.



| Option | Deg. | L2 | L3 | L1 | Shank | Part No. |
|--------|------|----|-----|-----|------------------|-------------|
| 1 | 27 | 23 | 6.5 | 69 | 12 X 40 | 4095.023.00 |
| 1 | 27 | 23 | 6.5 | 115 | 3/4 X 60m.E. | 4095.023.34 |
| 1 | 27 | 23 | 6.5 | 115 | 25 X 60m.E. | 4095.023.10 |
| 1 | 27 | 23 | 6.5 | 115 | 3/4 X 60m.E.(LH) | 4095.023.35 |
| 1 | 27 | 23 | 6.5 | 115 | 25 X 60m.E.(LH) | 4095.023.11 |
| 2 | 47 | 40 | 14 | 115 | 3/4 X 60m.E. | 4095.040.34 |
| 2 | 47 | 40 | 14 | 115 | 25 X 60m.E. | 4095.040.00 |
| 2 | 47 | 40 | 14 | 115 | 3/4 X 60m.E.(LH) | 4095.040.35 |
| 2 | 47 | 40 | 14 | 115 | 25 X 60m.E.(LH) | 4095.040.01 |

LH denotes left hand rotation m.E. denotes adjusting screw size

| Solid Carbide Inserts | Part No. |
|--|-------------|
| 20 X 12 X 1.5 (Option No. 1 - Blank) | 4200.020.00 |
| 36 X 21 X 2 (Option No. 2 - Blank) | 4095.036.00 |
| Template (Per Profile) | |
| Please send a drawing or wood sample for profile insert pricing. | |

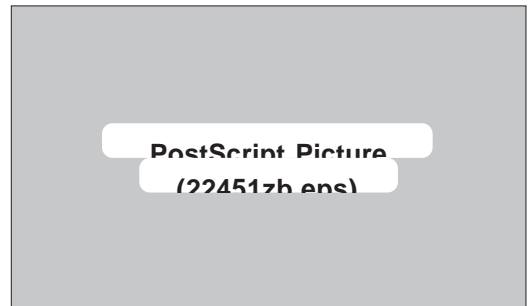
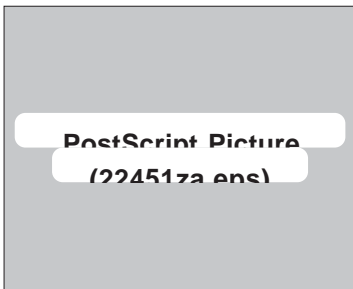
| Replacement Parts | Part No. |
|--|-----------------|
| M4 X 6 screw for Option No. 1 cutter | 39081-0-04060-R |
| M4 X 5.9 screw for Option No. 2 cutter | 39076-0-04000-R |
| Torx wrench (T15) | 39077-0-04015-2 |

Option No. 1

Option No. 2



Profile Zone



Quantity discounts on profile inserts

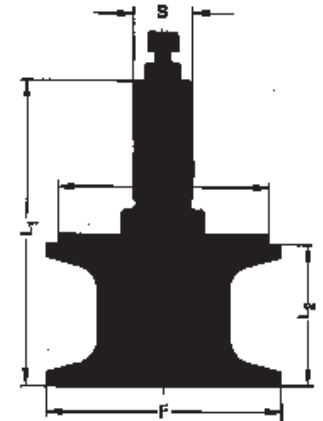
Multi-Profile Insert Router Bit



Number 4313 and 4316 are designed to produce various profiles using single-sided inserts and support plates. Profile area per shaded diagram below. Body supplied without inserts and support plates.

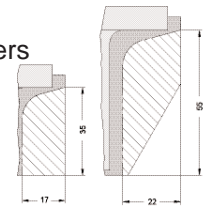
4313/4316 Z2

| F | L2 | L1 | Shank | max. RPM | Part. No |
|-----|----|-----|----------------|----------|-------------|
| 90 | 40 | 109 | 3/4 x 55m.E. | 12,000 | 4313.090.34 |
| 90 | 40 | 109 | 25x55m.E. | 12,000 | 4313.090.40 |
| 90 | 40 | 109 | 25x55m.E. (LH) | 12,000 | 4313.090.41 |
| 100 | 60 | 129 | 3/4 x 55m.E. | 9,000 | 4313.100.34 |
| 100 | 60 | 129 | 25x55m.E. | 9,000 | 4313.100.60 |



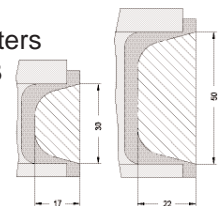
| Solid Carbide Inserts | Part No. | Support plates (blank) | Part No. |
|-----------------------|-------------|------------------------|-------------|
| 40 x 36 x 2 | 4202.040.36 | 40 x 36 x 4.5 | 4080.040.36 |
| 60 x 41 x 2 | 4202.061.41 | 60 x 41 x 4.5 | 4080.061.41 |

Profiling Parameters for 4313

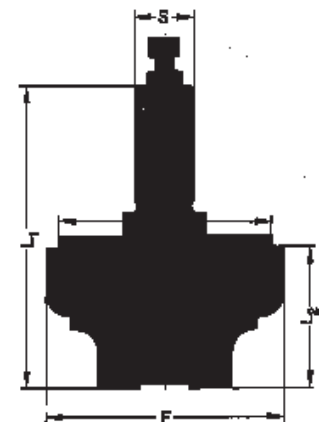


| Replacement Parts | Part No. |
|-------------------|-----------------|
| M8 X 12 Screw | 39072-0-08012-R |
| Wrench SW4 | 39140-0-00401-0 |

Profiling Parameters for 4313



| F | L2 | L1 | Shank | max. RPM | Part. No |
|-----|----|-----|----------------|----------|-------------|
| 60 | 30 | 85 | 5/8" x 45m.E. | 12,000 | 4316.060.30 |
| 90 | 40 | 109 | 3/4 x 55m.E. | 12,000 | 4316.090.34 |
| 90 | 40 | 109 | 25 x 55m.E. | 12,000 | 4316.090.40 |
| 90 | 40 | 109 | 25 x 55m.E(LH) | 12,000 | 4316.090.41 |
| 100 | 60 | 129 | 3/4 x 55m.E. | 9,000 | 4316.100.34 |
| 100 | 60 | 129 | 25 x 55m.E. | 9,000 | 4316.100.60 |



| Solid Carbide Inserts (blank) | Part No. | Support plates (blank) | Part No. |
|-------------------------------|-------------|------------------------|-------------|
| 30 x 25 x 2 | 4202.030.25 | 30 x 25 x 4.5 | 4080.030.25 |
| 40 x 36 x 2 | 4202.040.36 | 40 x 36 x 4.5 | 4080.040.36 |
| 60 x 41 x 2 | 4200.062.41 | 60 x 41 x 4.5 | 4080.062.41 |

Quantity discounts on profile inserts.

Subject to one time template charge.

Inserts available in three grades.

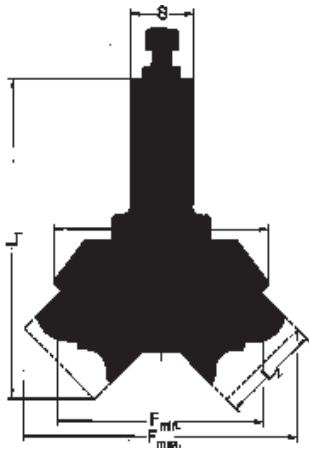
| Replacement Parts | Part No. |
|-------------------|-----------------|
| M8 x 12 Screw | 39072-0-08012-R |
| Wrench SW4 | 39140-0-00401-0 |

Angled Multi-Profile Router Bit

4318 Z2

This cutter is designed to produce various profiles using single-sided inserts and support plates on a 45° angle. The 45° position allows for deeper profiles per examples below. Body supplied without inserts and support plates. Profile area per examples below. Left-hand rotation available upon request.

| D | L2 | Z | Shank | max. RPM | Part. No |
|-----|----|---|--------------|-----------|-------------|
| 110 | 40 | 2 | 3/4 x 55m.E. | 12,000 RH | 4318.125.34 |
| 110 | 40 | 2 | 25 x 55m.E. | 12,000 RH | 4318.125.40 |
| 148 | 60 | 2 | 3/4 x 55m.E. | 8,000 RH | 4318.148.34 |
| 148 | 60 | 2 | 25 x 55m.E. | 8,000 RH | 4318.148.60 |



| Solid Carbide Inserts | Part No. | Support plates (blank) | Part No. |
|-----------------------|-------------|------------------------|-------------|
| 40 x 36 x 2 | 4202.040.36 | 40 x 36 x 4.5 | 4080.040.36 |
| 60 x 41 x 2 | 4202.061.41 | 60 x 41 x 4.5 | 4080.061.41 |

| Replacement Parts | Part No. |
|-------------------|-----------------|
| M8 x 12 Screw | 39072-0-08012-R |
| Wrench SW4 | 39140-0-00401-0 |

Profile examples:



40 x 36 x 2 mm for No. 22460



60 x 41 x 2 mm for No. 22460

Quantity discounts on profile inserts.

Subject to one time template charge.

Inserts available in three grades.

Multi-Profiler For Bottom Cutting

GUHDO®

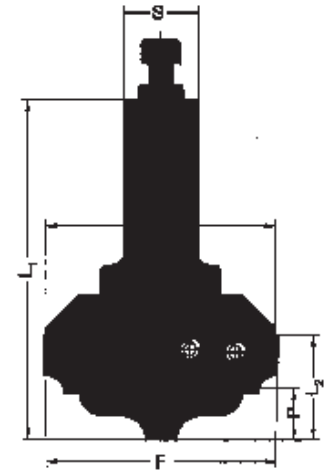
This router bit is designed for inside, bottom cutting profiles that fall within the parameters shown below, such as profiled grooves and rosettes. Right-hand rotation. Body supplied without inserts and support plates. Left-hand rotation available upon request.

4317 Z2

| F max | P | L2 | L1 | Shaft | Part No. |
|-------|----|----|-----|---------------|-------------|
| 60 | 15 | 34 | 105 | 25 x 55m.E. | 4317.105.76 |
| 60 | 15 | 34 | 105 | 3/4 x 55m.E. | 4317.105.34 |
| 76 | 17 | 35 | 112 | 3/4 x 25 m.E. | 4317.112.34 |
| 76 | 17 | 35 | 112 | 25 x 25 m.E. | 4317.112.76 |
| 76 | 17 | 35 | 144 | MK2/M30 x 1.5 | 4317.144.76 |

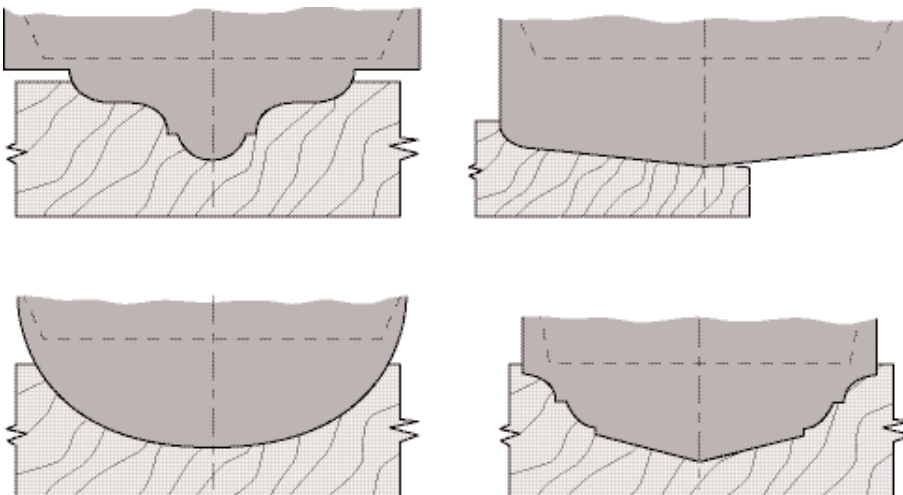
| Solid Carbide Inserts (blank) | Part No. |
|-------------------------------|-------------|
| 30 x 35 x 2 | 4202.030.35 |
| 40 x 36 x 2 Type A | 4202.041.36 |
| 40 x 36 x 2 Type B | 4202.041.37 |

| Support plates (blank) | Part No. |
|------------------------|-------------|
| 30 x 35 x 4.5 | 4080.030.35 |
| 40 x 36 x 4.5 | 4080.040.36 |



| Replacement Parts | Part No. |
|-------------------|-----------------|
| M8 x 12 Screw | 39072-0-08012-R |
| Wrench SW4 | 39140-0-00401-0 |

Profile Examples



Quantity discounts on profile inserts.

Subject to one time template charge.

Inserts available in three grades.

Maximum RPM:
Fmax 60 - 12,000
Fmax 76 - 18,000

Profile Insert Router Bit

6979 Z2

A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid wood materials. Profile area per examples below.

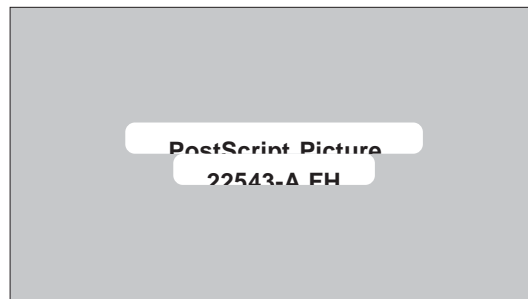
| F max | D | L2 | F min | Shank Dia./Length | Part No. |
|-------|----|------|-------|-------------------|-------------|
| 38 | 36 | 20.5 | 25 | 1/2"x40 | 6979.363.20 |

Tool body price does not include profile inserts.



| Solid Carbide Inserts | | Part No. |
|-----------------------|------------------------------|-------------|
| 22x19x2 | Blank (solid wood) | 4207.122.19 |
| 22x19x2 | Profile group 1 (solid wood) | 4207.123.19 |
| 22x19x2 | Blank (composites) | 4207.222.19 |
| 22x19x2 | Profile group 1 (composites) | 4207.223.19 |

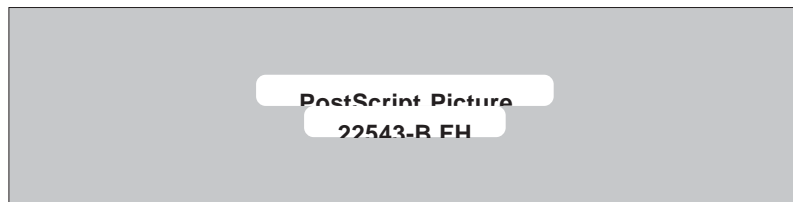
| Replacement Parts | Part No. |
|-------------------|-----------------|
| M4 screw | 39076-0-04000-R |
| Torx wrench (T15) | 39077-0-04015-2 |



Profile Area Zone (1:1)

Quantity discounts on profile inserts.

Subject to one time template charge.



Maximum RPM: 18,000

Profile Insert Router Bit



A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid wood materials. Profile area per examples below.

6985

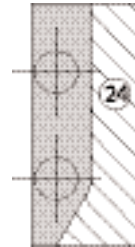
| F max | F min | L2 | Ins. No. | Shank Dia./Length | Part No. |
|-------|-------|----|----------|-------------------|-------------|
| 31.5 | 17 | 32 | 24 | 1/2" x 40 | 6985.315.32 |

Tool body price does not include profile inserts.

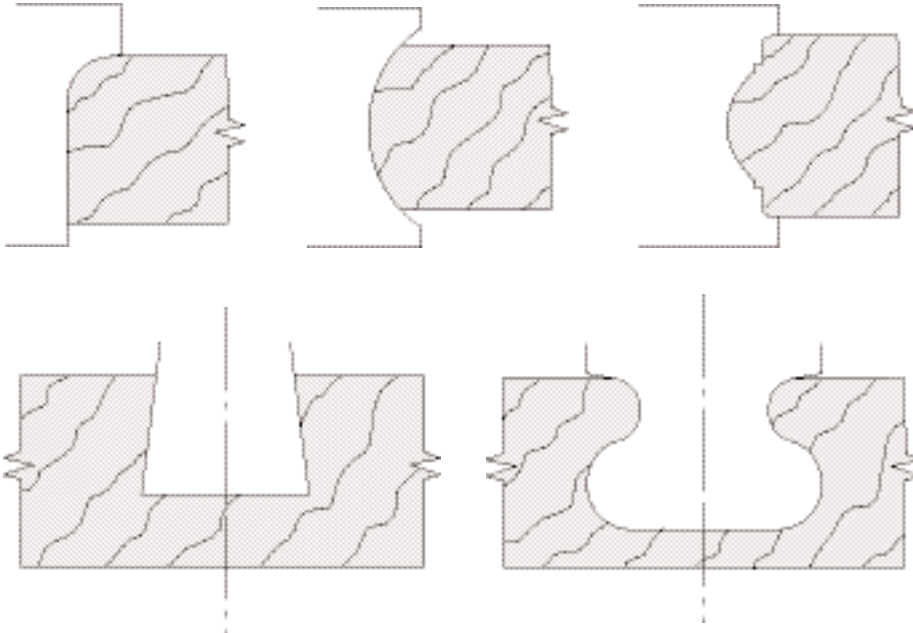
| Replacement Parts | Part No. |
|-------------------|-----------------|
| M3 x 4 screw | 39081-0-03040-R |
| Torx Wrench (T15) | 39077-0-04015-2 |



Profile Area 1:1



Profile Area 1:1



PostScript Picture
(22529-5a.eps)

Quantity discounts on profile inserts.

Subject to one time template charge.

Maximum RPM: 18,000

Profile Insert Router Bit

6986 Z2

A dedicated profile router bit with single sided profile inserts.
Designed to profile composite and solid wood materials. Profile area per examples below.



| F max | P | L2 | F min | Shaft | Part No. |
|-------|----|------|-------|--------------|-------------|
| 51 | 48 | 38.5 | 41 | 3/4 X 55m.E. | 6986.485.40 |
| 51 | 48 | 38.5 | 41 | 20 X 55m.E. | 6986.486.40 |
| 51 | 48 | 38.5 | 41 | 25 X 55m.E. | 6986.487.40 |

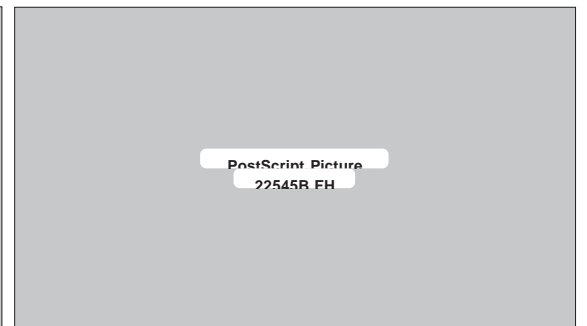
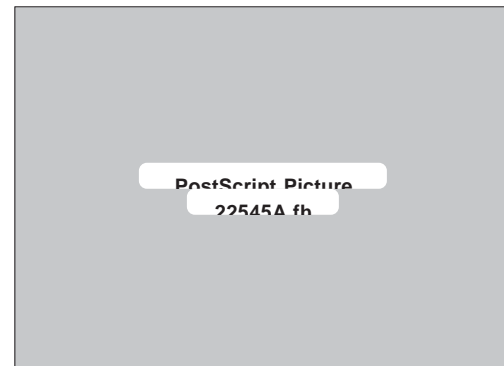
Tool body price does not include profile inserts.

| Solid Carbide Inserts | | Part No. |
|-----------------------|------------------------------|-------------|
| 40 X 25.5 X 2 | Blank (solid wood) | 4207.252.40 |
| 40 X 25.5 X 2 | Profile group 1 (solid wood) | 4207.253.40 |
| 40 X 25.5 X 2 | Blank (composites) | 4217.252.40 |
| 40 X 25.5 X 2 | Profile group 1 (composites) | 4217.253.40 |

| Replacement Parts | | Part No. |
|-------------------|--|-----------------|
| M4 Torx screw | | 39076-0-04000-R |
| Torx wrench (T15) | | 39077-0-04015-3 |

Quantity discounts on profile inserts.

Subject to one time template charge.



Maximum RPM: 12,000

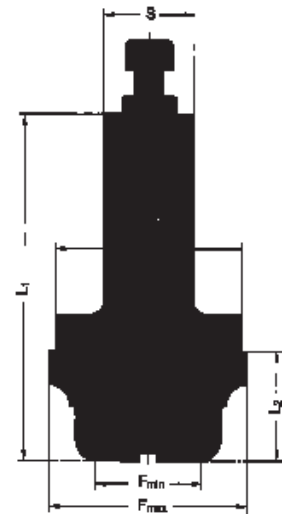
Profile Insert Router Bit



A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid materials. Available in right hand rotation and is capable of bottom cutting and ramp plunging.

| F max | L2 | Ins. No. | Shank Dia./Length | Part No. |
|----------|----|----------|-------------------|-------------|
| 45/55/65 | 30 | 1/2/3 | 3/4" x 55 m.E. | 6980.425.30 |
| | | | 20 x 55 m.E. | 6980.426.30 |
| | | | 25 x 55 m.E. | 6980.420.30 |
| 45/55/65 | 40 | 4/5/6 | 3/4" x 55 m.E. | 6980.425.40 |
| | | | 20 x 55 m.E. | 6980.426.40 |
| | | | 25 x 55 m.E. | 6980.420.40 |
| 45/55/65 | 50 | 7/8/9 | 3/4" x 55 m.E. | 6980.425.50 |
| | | | 20 x 55 m.E. | 6980.426.50 |
| | | | 25 x 55 m.E. | 6980.420.50 |
| 71 | 70 | 19 | 3/4" x 55 m.E. | 6987.665.70 |
| | | | 20 x 55 m.E. | 6987.666.70 |
| | | | 25 x 55 m.E. | 6987.667.70 |

6980 Z2



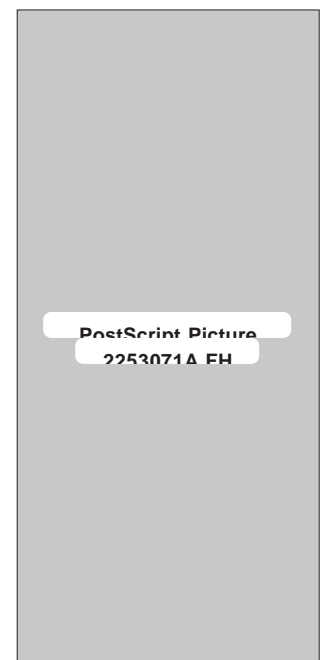
F_{min}=30 mm (D=52 mm)

6987 Z2

Tool body price does not include profile inserts.

| Fmax | R.P.M. max | | | |
|------|------------|-------|-------|-------|
| | L2=mm | | | |
| | 30 | 40 | 50 | 70 |
| 45 | 18000 | 18000 | 17300 | - |
| 55 | 18000 | 15600 | 13800 | - |
| 65 | 15200 | 13300 | 12000 | - |
| 71 | - | - | - | 12000 |

F_{min}=37 mm (D=66 mm)



| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |

Profile Insert Router Bit

6981 Z2

A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid materials. Available in right hand rotation and is capable of bottom cutting and ramp plunging. For use when a small minimum tool diameter is required, 19mm.



| F max | D | L2 | Ins. No. | Shaft | Part No. |
|-------|----|----|----------|----------------|-------------|
| 34 | 31 | 30 | 1 | 12 x 40 | 6981.312.30 |
| | | | | 1/2" x 40 | 6981.313.30 |
| | | | | 3/4" x 55 m.E. | 6981.315.30 |
| | | | | 25 x 55 m.E. | 6981.310.30 |
| 53 | 41 | 40 | 18 | 12 x 40 | 6981.412.40 |
| | | | | 1/2" x 40 | 6981.413.40 |
| | | | | 3/4" x 55 m.E. | 6981.415.40 |
| | | | | 25 x 55 m.E. | 6981.410.40 |

Tool body price does not include profile inserts.

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |

6982 Z2

Same application as above except with a smaller minimum tool diameter of 10 mm.



| F max | D | L2 | Ins. No. | Shaft | Part No. |
|-------|----|----|----------|----------------|-------------|
| 30 | 28 | 25 | 10 | 12 x 40 | 6982.282.25 |
| | | | | 1/2" x 40 | 6982.283.25 |
| | | | | 3/4" x 55 m.E. | 6982.285.25 |
| | | | | 25 x 55 m.E. | 6982.280.25 |

Tool body price does not include profile inserts.

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |

Quantity discounts on profile inserts.

Subject to one time template charge.

Maximum RPM:
12,000 (Fmax=53 mm)
18,000 (Fmax=30/34mm)

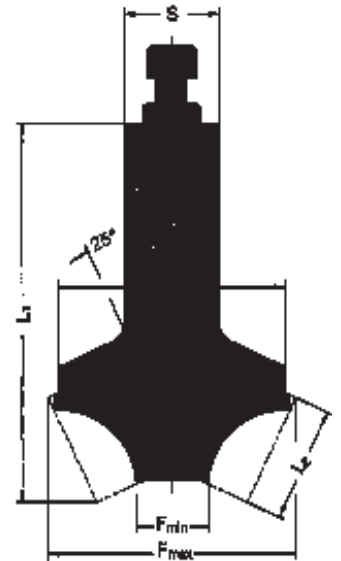
Profile Insert Router Bit



A dedicated profile router bit with single sided profile inserts positioned at a 25° angle.
Designed to profile composite and solid materials. Profile area per examples below.
Right hand rotation.

6983 Z2

| F max | D | L2 | Ins. No. | Shaft | Part No. |
|-------|----|----|----------|---------------|-------------|
| 64 | 58 | 30 | 11 | 3/4" x 55m.E. | 6983.585.30 |
| | | | | 25 x 55m.E. | 6983.580.30 |



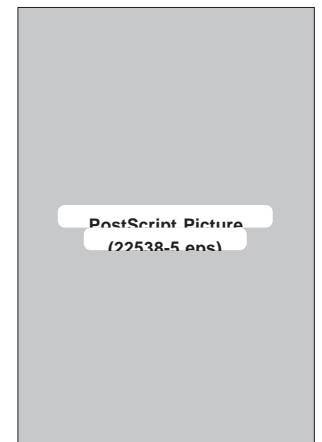
Tool body price does not include profile inserts.

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |

Same application as above except with the profile inserts positioned at a 30° angle.
Designed to profile composite and solid materials. Profile area per examples below.
Right hand rotation.

6984 Z2

| F max | D | L2 | Ins. No. | Shaft | Part No. |
|-------|----|----|----------|----------------|-------------|
| 81/89 | 76 | 40 | 12/13 | 3/4" x 55 m.E. | 6984.705.40 |
| | | | | 25 x 55m.E. | 6984.700.40 |



Tool body price does not include profile inserts.

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |



Quantity discounts on profile inserts.

Subject to one time template charge (per profile)

Maximum RPM: 12,000

Profile Insert Router Bit

6988 Z2

A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid materials. Profile area per examples below.

Quantity discounts on profile inserts.

Subject to one time template charge.

| F max | D | L2 | Ins. No. | Shaft | Part No. |
|-------|-----|----|----------|--------------|-------------|
| 105 | 102 | 38 | 20 | 3/4 x 55m.E. | 6988.975.40 |
| 105 | 102 | 38 | 20 | 20 x 55m.E. | 6988.976.40 |
| 105 | 102 | 38 | 20 | 25 x 55m.E. | 6988.977.40 |

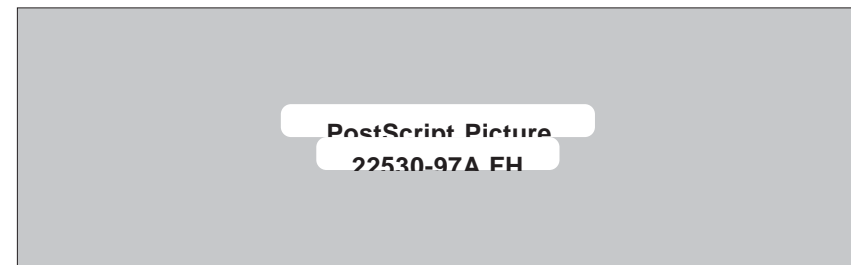
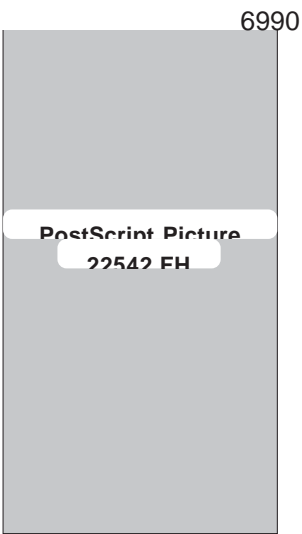
6990 Z2

| F max | D | L2 | Ins. No. | Shaft | Part No. |
|-------|-----|----|----------|--------------|-------------|
| 105 | 102 | 40 | 21 | 3/4 x 55m.E. | 6990.975.40 |
| 105 | 102 | 40 | 21 | 20 x 55m.E. | 6990.976.40 |
| 105 | 102 | 40 | 21 | 25 x 55m.E. | 6990.977.40 |



Tool body price does not include profile inserts.

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |



Maximum RPM: 18,000

Profile Insert Router Bit



A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid materials. Profile area per examples below.

6989 Z2

| F max | D | L2 | Shank Dia./Length | Part No. |
|-------|-----|----|-------------------|-------------|
| 144 | 141 | 38 | 25 x 55m.E. | 6989.141.40 |

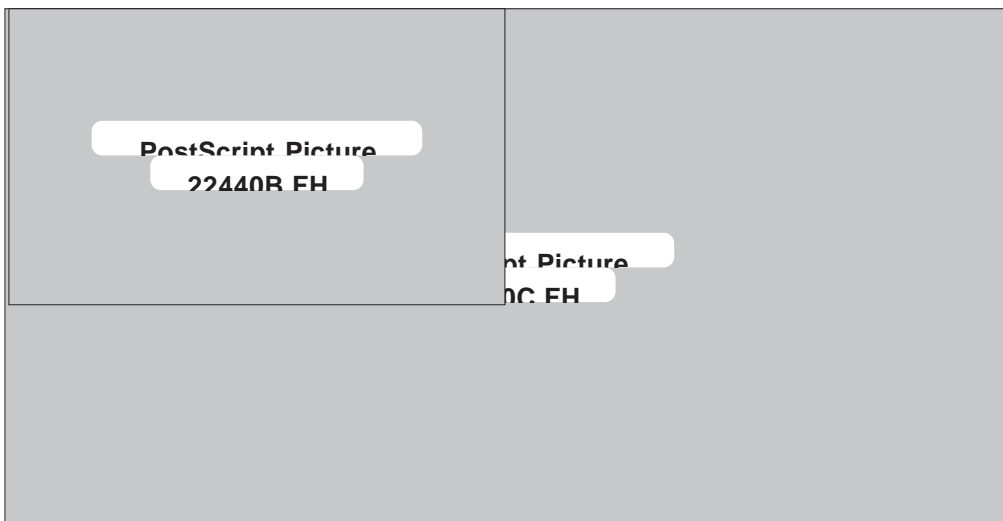
Quantity discounts on profile inserts.

Subject to one time template charge.

Tool body price does not include profile inserts.

| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| 40 x 66 x 2 Blank | 4207.040.66 |
| 40 x 66 x 2 Profile | 4207.041.66 |

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |



Maximum RPM: 6,000

Profile Insert Router Bit

6991

A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid wood materials. Profile area per examples below.

Quantity discounts on profile inserts.

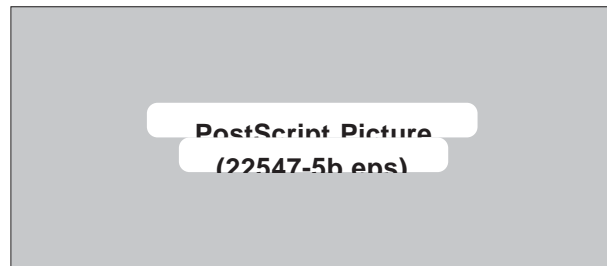
Subject to one time template charge.

| F max | D | L2 | Ins. No. | Shaft | Part No. |
|-------|----|----|----------|---------------|-------------|
| 60 | 70 | 16 | 3 | 3/4" x 55m.E. | 6991.700.40 |
| 60 | 70 | 16 | 3 | 25 x 55m.E. | 6991.700.41 |
| 80 | 90 | 32 | 6 | 3/4" x 55m.E. | 6991.900.40 |
| 80 | 90 | 32 | 6 | 25 x 55m.E. | 6991.900.41 |

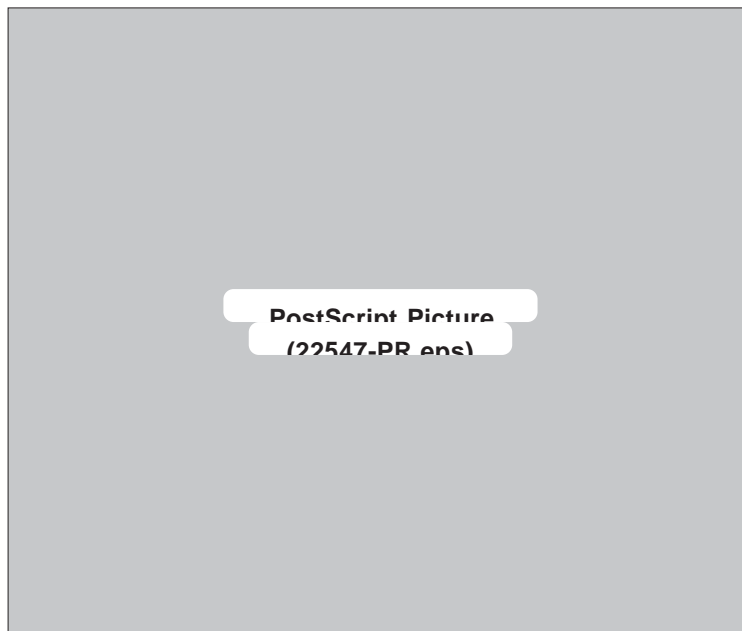


Tool body price does not include profile inserts.

| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-3 |



Profile Zone



Maximum RPM: 12,000

Raised Panel Insert Router Bit



A dedicated profile router bit with single sided profile inserts. Designed to profile composite and solid materials. Available in form A (with outer cutter) and form B (without outer cutter). Also available with an optional panel trim attachment for trimming panels to size. Raised panel insert with shear angle. Profile area per shaded examples below. Right hand rotation.

4325 Z2

| F max | D | L2 | Shank Dia./Length | Part No. |
|-------|-------|-------|-------------------|-------------|
| 89 | 27/24 | 36/46 | 3/4" x 50 m.E. | 4325.092.19 |
| 89 | 27/24 | 36/46 | 20 x 55 m.E. | 4325.092.20 |
| 89 | 27/24 | 36/46 | 25 x 55 m.E. | 4325.092.00 |

Tool body price does not include profile inserts and outer cutter.

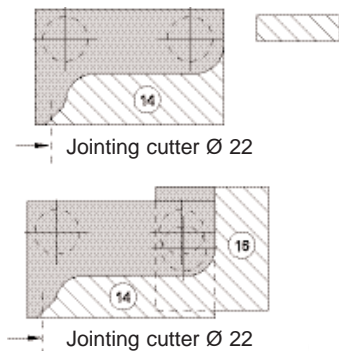
| Solid Carbide Inserts | | Part No. |
|--|----------|-------------|
| 40 x 25 x 2 Raised panel insert (14) | Blank | 4207.040.25 |
| | Profiled | 4207.041.25 |
| 25 x 25 x 2.0 Outer cutter insert (16) | Blank | 4325.025.20 |
| | Profiled | 4325.026.20 |
| 12 x 12 x 1.5 Panel trim insert | | 4200.012.00 |
| Plate for Outer cutter | Blank | 4325.025.21 |
| | Profiled | 4325.026.21 |
| Panel Trim Attachment | | 4325.220.80 |

| Solid Carbide Inserts | Part No. |
|---------------------------------------|-----------------|
| M4 Torx screw (for inserts) | 39076-0-04040-R |
| Torx wrench (T 15) | 39077-0-04015-2 |
| M4 x 20 screw (to secure panel trim) | 39165-0-04020-R |
| M6 x 8 screw (to secure outer cutter) | 39165-0-06008-R |
| Wrench (SW 3) (for M4 screw) | 39140-0-00302-0 |
| Wrench (SW 5) (for M6 screw) | 39140-0-00501-0 |

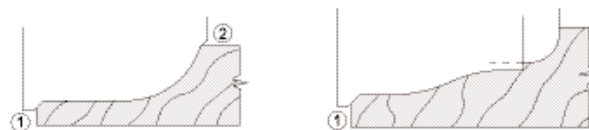


Quantity discounts on profile inserts.

Subject to one time template charge.



Examples of profiles (1:1)



① Optional on request panel raising knives will be supplied bevel-ground or with radius

② Bevel or radius for clean-cut edges

Maximum RPM: 12,000

Raised Panel Insert Router Bit

4325 Z2

A dedicated router bit with single sided profile inserts. Same application as the previous cutter except for deeper and wider profiles. Also available with an optional panel trim attachment for trimming panels to size. Raised panel insert with shear angle. Profile area per examples below. Right hand rotation.



| F | L2 | L1 | T | Shank Dia./Length | Part No. |
|-----|----|----|----|-------------------|-------------|
| 112 | 28 | 97 | 46 | 3/4" x 50 m.E. | 4325.112.19 |
| 112 | 28 | 97 | 46 | 20 x 50 m.E. | 4325.112.20 |
| 112 | 28 | 97 | 46 | 25 x 50 m.E. | 4325.112.00 |

Tool body price does not include profile inserts.

| Solid Carbide Inserts | | Part No. |
|-----------------------------------|----------|-------------|
| 50 x 30 x 2.0 Raised panel insert | Blank | 4207.050.30 |
| | Profiled | 4207.051.30 |
| 12 x 12 x 1.5 Panel trim insert | | 4200.012.00 |
| Panel Trim Attachment | | 4325.220.80 |

| Replacement Parts | Part No. |
|--------------------------------------|-----------------|
| M4 Torx screw (for inserts) | 39076-0-04040-R |
| Torx wrench (T 15) | 39077-0-04015-2 |
| M4 x 20 screw (to secure panel trim) | 39165-0-04020-R |
| Wrench (SW 3) (for M4 screw) | 39140-0-00302-0 |

Quantity discounts on profile inserts.

Subject to one time template charge.

Maximum RPM: 12,000

Examples of profiles (1:1)



① Optional on request panel raising knives will be supplied bevel-ground or with radius

② Bevel or radius for clean-cut edges

Raised Panel Insert Router Bit



A dedicated router bit with single sided profile inserts. Raised panel inserts with shear angle. Profile area per examples below. Optional panel trim attachment for trimming panels to size.

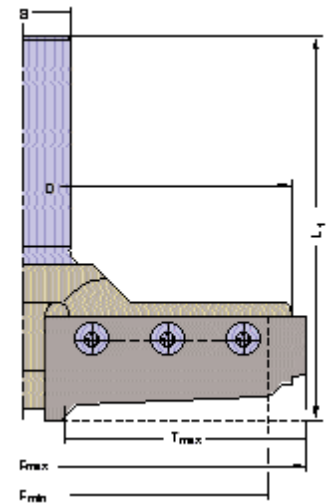
4326 Z2

| F | L2 | L1 | T | Shank Dia./Length | Part No. |
|-----|-----|----|----|-------------------|-------------|
| 150 | 130 | 98 | 64 | 25 x 55m.E. | 4326.150.00 |

Tool body price does not include profile inserts.

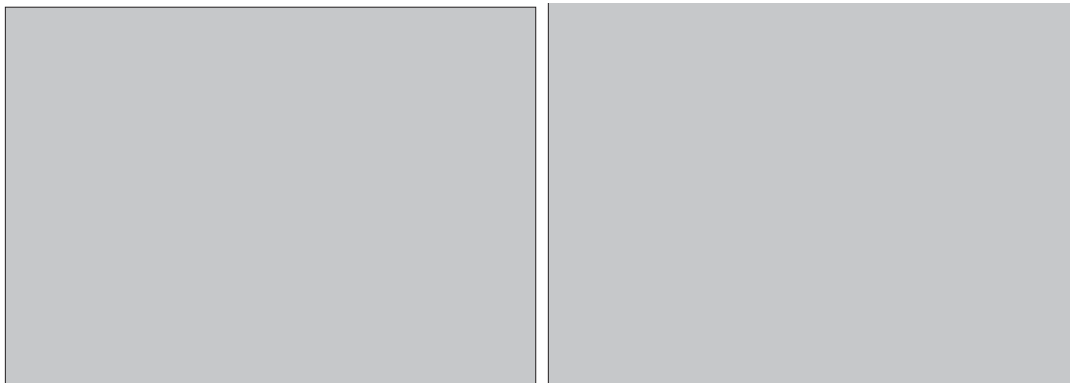
| Solid Carbide Inserts | Part No. |
|---------------------------------|-------------|
| 70 x 30 x 2 Blank | 4207.070.30 |
| 70 x 30 x 2 Profiled | 4207.071.31 |
| 12 x 12 x 1.5 Panel trim insert | 4200.012.00 |
| Panel Trim Attachment | 4325.220.80 |

| Replacement Parts | Part No. |
|-----------------------------|-----------------|
| M4 Torx screw (for Inserts) | 39076-0-04000-R |
| Torx screw (T15) | 39077-0-04015-2 |
| M4 x 20 screw | 39165-0-04020-R |
| Wrench (SW3) | 39140-0-00302-0 |



Quantity discounts on profile inserts.

Subject to one time template charge.



Maximum RPM: 8,000

Profile Insert Router Bit

6992

A dedicated profile router bit with single sided profile inserts. Designed for producing standard hand rail profiles per below. Special profiles available upon request.



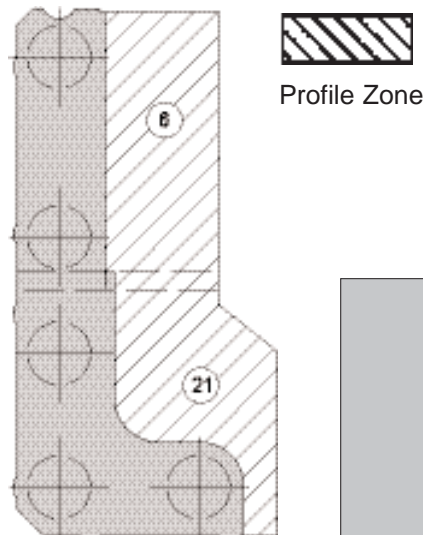
| F | L2 | L1 | T | Shank Dia./Length | Part No. |
|----|----|----|---|-------------------|-------------|
| 90 | 87 | 74 | 1 | 25 x 55m.E. | 6992.900.25 |
| 90 | 87 | 74 | 2 | 25 x 55m.E. | 6992.901.25 |
| 90 | 87 | 74 | 3 | 25 x 55m.E. | 6992.902.25 |

Tool body price does not include profile inserts.

| Solid Carbide Inserts | Part No. |
|------------------------------------|-------------|
| 40 x 25 x 2 Profile No. 1 - Top | 6992.041.25 |
| 40 x 50 x 2 Profile No. 1 - Bottom | 6992.041.50 |
| 40 x 25 x 2 Profile No. 2 - Top | 6992.042.25 |
| 40 x 50 x 2 Profile No. 2 - Bottom | 6992.042.50 |
| 40 x 25 x 2 Profile No. 1 - Top | 6992.043.25 |
| 40 x 50 x 2 Profile No. 2 - Bottom | 6992.043.50 |



| Replacement Parts | Part No. |
|--------------------|-----------------|
| M4 Torx Screw | 39076-0-04000-R |
| Torx Wrench (T 15) | 39077-0-04015-2 |



Special profiles available upon request.

The following lists all blank inserts for the cutters on pages 43-53.

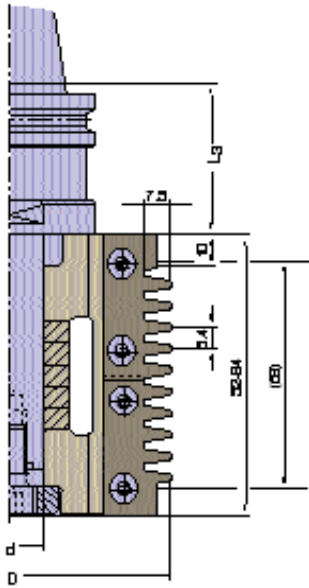
| Ins. No. | Insert Description | | Part No. |
|----------|--------------------|---------|-------------|
| 1 | 30 x 20 x 2 mm | blank | 4207.030.20 |
| | | profile | 4207.031.20 |
| 2/11 | 30 x 25 x 2 | blank | 4207.030.25 |
| | | profile | 4207.031.25 |
| 3 | 30 x 30 x 2 | blank | 4207.030.30 |
| | | profile | 4207.031.30 |
| 4 | 40 x 20 x 2 | blank | 4207.040.20 |
| | | profile | 4207.041.20 |
| 5/12/14 | 40 x 25 x 2 | blank | 4207.040.25 |
| | | profile | 4207.041.25 |
| 6/13 | 40 x 30 x 2 | blank | 4207.040.30 |
| | | profile | 4207.041.30 |
| 7 | 50 x 20 x 2 | blank | 4207.050.20 |
| | | profile | 4207.051.20 |
| 8 | 50 x 25 x 2 | blank | 4207.050.25 |
| | | profile | 4207.051.25 |
| 9/15 | 50 x 30 x 2 | blank | 4207.050.30 |
| | | profile | 4207.051.30 |
| 10 | 25 x 17.5 x 1.7 | blank | 4207.025.17 |
| | | profile | 4207.026.17 |
| 23 | 25 x 25 x 2 | blank | 4207.025.25 |
| | | profile | 4207.026.25 |
| 24 | 32 x 15 x 1.5 | blank | 4207.032.15 |
| | | profile | 4207.032.16 |
| 19 | 70 x 30 x 2 | blank | 4207.070.30 |
| | | profile | 4207.071.30 |
| 18 | 40 x 30 x 2 | blank | 4207.143.30 |
| | | profile | 4207.144.30 |
| 20/21 | 40 x 50 x 2 | blank | 4207.040.50 |
| | | profile | 4207.041.50 |

Inserts normally supplied in standard carbide grade. Special grades for solid wood and MDF available upon request. Polished face inserts for maximum tool life and improved finish quality available upon request.

Adjustable Insert Glue Joint Router Bit

4338

An adjustable two piece insert router bit for producing glue joints in solid woods. Adjustable by one pitch, with spacers for material thickness of 52-84mm. Right hand rotation.



| D | L2 | L3 | Shank Dia./Length | Part No. |
|-----|-------|----|-------------------|-------------|
| 100 | 52-84 | 45 | SK30 | 4338.100.30 |
| 100 | 52-84 | 45 | SK40 | 4338.100.40 |
| 100 | 52-84 | 80 | HSK 63F | 4338.100.63 |
| 100 | 52-84 | | 25 x 55m.E. | 4338.100.25 |
| 100 | 52-84 | | 3/4 x 55m.E. | 4338.100.34 |

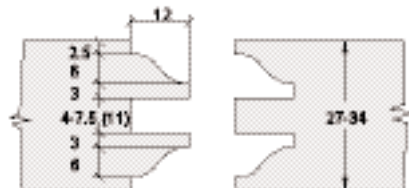
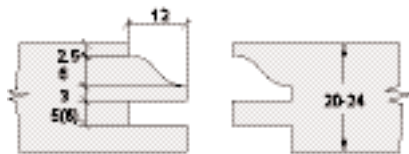
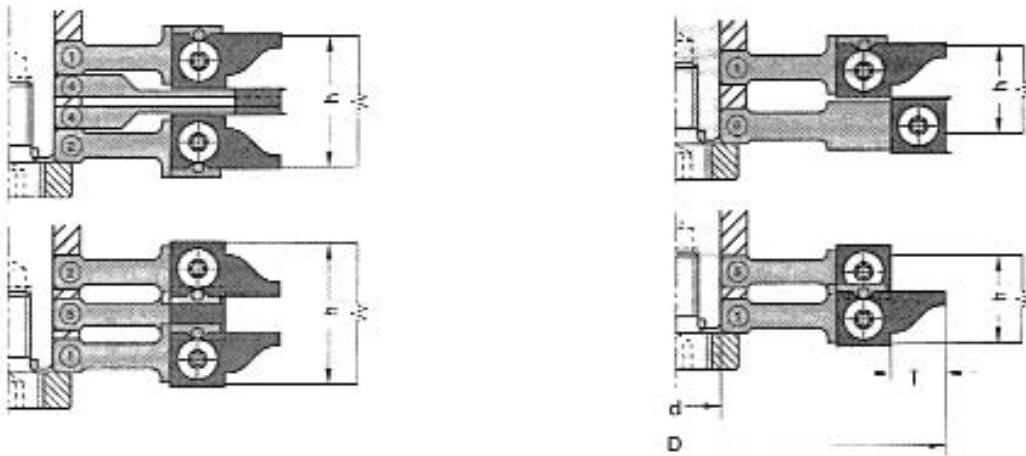
| Solid Carbide Inserts | | Part No. |
|-----------------------|-----------------------------|-------------|
| 43.5 X 20 X 2 | Profile Insert - top | 4338.435.00 |
| 42 X 20 X 2 | Profile Insert - bottom | 4338.420.00 |
| Glue joint cutter | 100 X 43.5 X 20KN Z2=top | 4338.100.00 |
| Glue joint cutter | 100 X 43.5 X 20KN Z2=bottom | 4338.100.01 |

Maximum RPM: 8,000
Aluminium body for weight reduction

| Replacement Parts | Part No. |
|-------------------|-----------------|
| Spacers | 39547-0-06400-1 |
| M4 Screw | 39076-0-04000-R |
| TORX wrench (T15) | 39077-0-04015-2 |

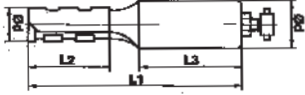
CNC Tooling For Door And Window Production

In addition to our standard line of tooling for CNC machines, GUHDO now offers a complete tooling program specifically designed for door and window manufacturing. Below are examples of profiles and systems available. Custom tooling systems are also available upon request. Call your local GUHDO distributor or GUHDO direct for more information.



Diamond Router Bits

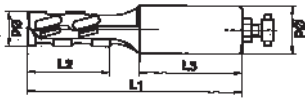
Dynax 2.5 Router Bit Z1+1



An economically priced router bit with up and down shear. Ideal for general routing.

| Description | Part Number |
|-----------------------------|-------------|
| 1/2" x 1" x 1/2" shank | 6811.127.00 |
| 1/2" x 1" x 1/2" shank (LH) | 6811.127.01 |
| 5/8" x 1" x 3/4" shank | 6811.158.00 |
| 5/8" x 1-5/8" x 3/4" shank | 6811.158.10 |
| 3/4" x 1" x 3/4" shank | 6811.190.00 |
| 3/4" x 1-5/8" x 3/4" shank | 6811.190.10 |
| Sharpen: 1-2 times | |

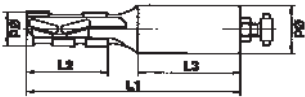
Dynax 2.5 Helical Router Bit Z2



Similar to the standard Dynax 2.5 but produced with a slight helical design.

| Description | Part Number |
|----------------------------|-------------|
| 3/4" x 1-5/8" x 3/4" shank | 6811.191.10 |
| 3/4" x 2 x 3/4" shank | 6811.191.20 |
| Sharpen: 1-2 times | |

NEWCO Router Bit Z2

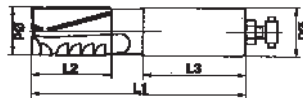


An economically priced disposable router bit with up and down shear. Ideal for general routing.

| Description | Part Number |
|---------------------------------|-------------|
| 5/8" x 1" x 3/4" shank | 6812.158.00 |
| 5/8" x 1-5/8" x 3/4" shank | 6812.158.10 |
| 3/4" x 1 x 3/4" shank | 6812.190.00 |
| 3/4" x 1-1/4" x 3/4" shank | 6812.190.05 |
| 3/4" x 1-5/8" x 3/4" shank | 6812.190.10 |
| 3/4" x 1-5/8" x 3/4" shank (LH) | 6812.190.11 |
| 3/4" x 2 x 3/4" shank | 6812.190.20 |
| Sharpen: 0-1 times | |

HL-3 High Performance Router Bit Z3

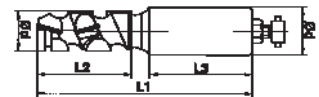
High Performance router bit with three full wings arranged in a compression spiral. Excellent for hard woods, composites and synthetic materials.



| Description |
|---------------------------------|
| 1" x 1"x 1" or 25 mm shank |
| 1" x 1-1/4" x 1" or 25 mm shank |
| 1" x 1-3/4" x 1" or 25 mm shank |
| 1" x 2" x 1" or 25 mm shank |
| Sharpen: 7-8 times |

K/W Form High Performance Router Bit Z3

High performance router bit with large tips. Ideal for hard woods producing excellent chip flow.



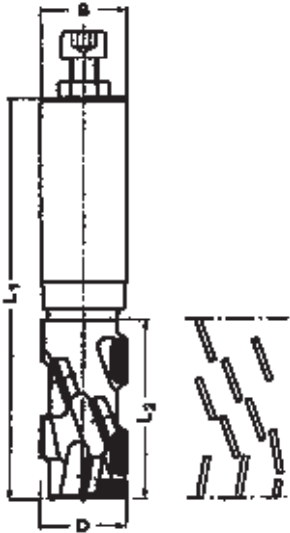
| Description |
|----------------------------------|
| 7/8" x 1" x 1" or 25mm shank |
| 7/8" x 1-1/4" x 1" or 25mm shank |
| 7/8" x 1-5/8" x 1" or 25mm shank |
| Sharpen: 7-8 times |

Diamond D-Flow Router Bit



This tool offers the I-System or “D-Flow” technology, which significantly increases the dust extraction from the cutting surface. This results in longer tool life and improves the products finished quality.

| D | L2 | L1 | Z | Shank |
|------|----|-----|-----|-----------|
| 3/4" | 28 | 105 | 2+2 | 3/4" x 55 |
| 3/4" | 38 | 110 | 2+2 | 3/4" x 55 |
| 3/4" | 48 | 115 | 2+2 | 3/4" x 55 |
| 25 | 28 | 105 | 2+2 | 25 x 55 |
| 25 | 38 | 110 | 2+2 | 25 x 55 |
| 25 | 48 | 115 | 2+2 | 25 x 55 |

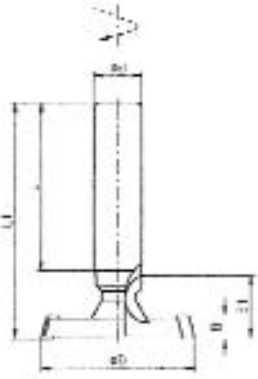


- PCD plunge tip
 - Patented D-Flow technology
 - Opposing high shear angle (compression style)
 - Also available in 1" diameter
- RPM: 16,000 - 24,000
 Feed Rate: Up to 1,000"/minute+

Diamond Router Bits

T-Slot Router Bit

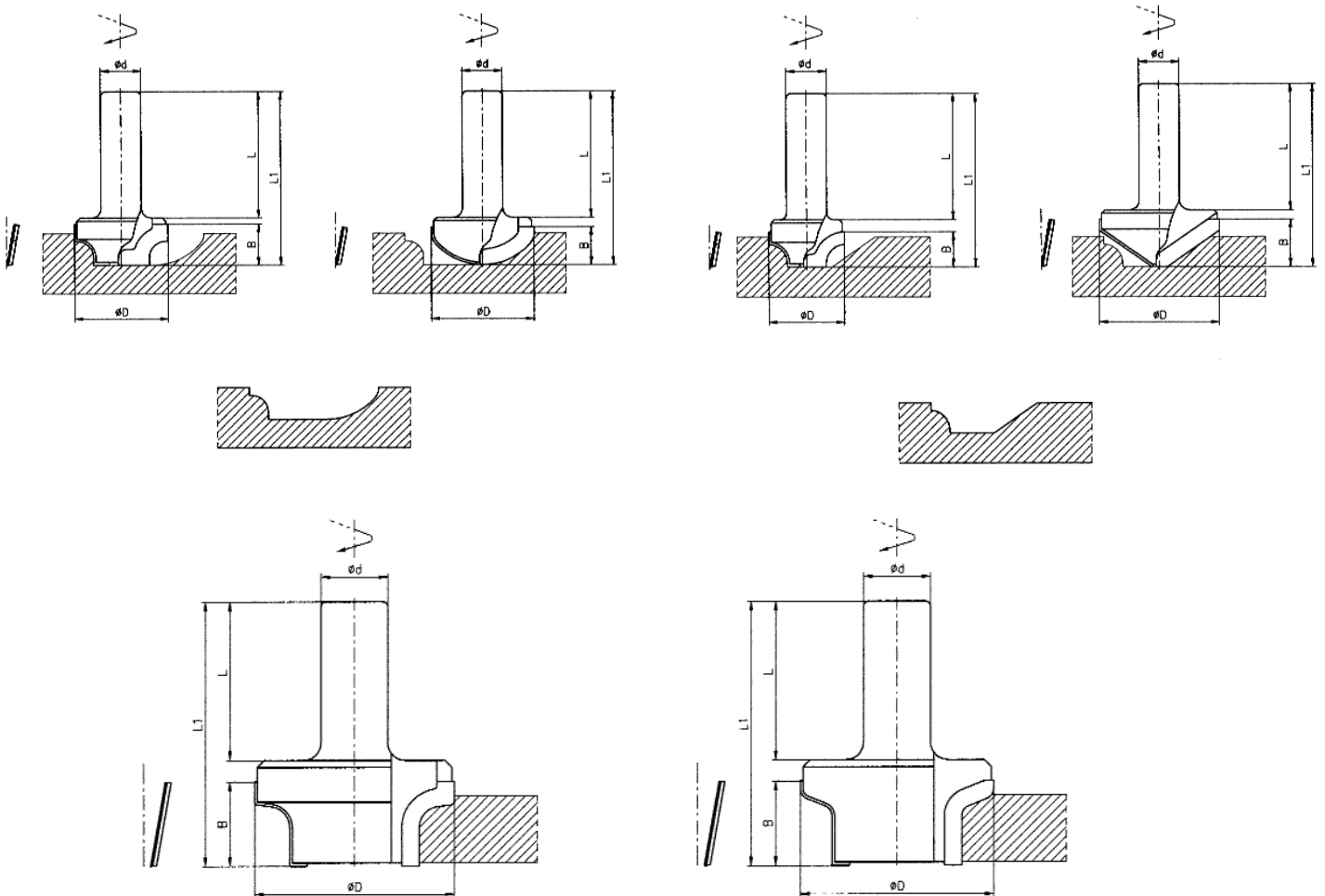
T-Slot router bit per industry standards. With two tips on the wing and one tip on the neck. Call for drawing. Other designs available upon request.



| Description | Part Number |
|--------------------|-------------|
| RH per Drawing | 6813.100.00 |
| LH per Drawing | 6813.100.01 |
| Sharpen: 2-3 times | |

Diamond Profile Router Bits And Cutters

Profile tools are available in a variety of shapes. These items are made to order based on specific applications in solid wood, composites and synthetic materials.



Adjustable Insert Groover

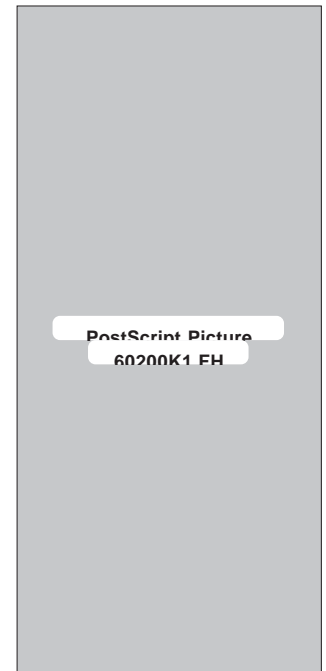
GUHDO®

Made of a two part steel body and spacers. For producing various grooves and rebates in solid woods and composites, with or without melamine, veneer and laminate. For use on CNC machines in conjunction with arbors located on pages 81 and 81.

4050

Groover L2=32-39
supplied in aluminium
for weight reduction.

| D | L2 | d | KN | Tmax | Part No. |
|-----|-------|----|---------|------|-------------|
| 120 | 4-7.5 | 20 | 6 x 1.5 | 25 | 4050.120.04 |
| 120 | 4-15 | 20 | 6 x 1.5 | 25 | 4050.121.04 |
| 140 | 11-21 | 20 | 6 x 1.5 | 43 | 4050.140.11 |
| 140 | 22-39 | 20 | 6 x 1.5 | 43 | 4050.141.11 |



| Solid Carbide Inserts | Part No. |
|-----------------------|--|
| 18 x 18 x 1.95 | For L2=4-7.5 4200.018.20 |
| 7.5 x 12 x 1.5 | For L2=4-15 (middle cutter) 4200.008.00 |
| 10.5 x 12 x 1.5 | For L2=11-21 4200.105.00 |
| 20 x 12 x 1.5 | For L2=22-39 4200.020.00 |
| 14 x 14 x 2.0 | Spur for L2=11-21 & 22-39 4200.014.04 |
| 14 x 14 x 1.2 | Spur for L2=4-7.5 4200.014.12 |

Maximum RPM: 12,000

Jointing/Rebating Cutter

Insert cutterhead for jointing and rebating of solid wood and composites.
For use on CNC machines in conjunction with arbors located on pages 80 and 81.



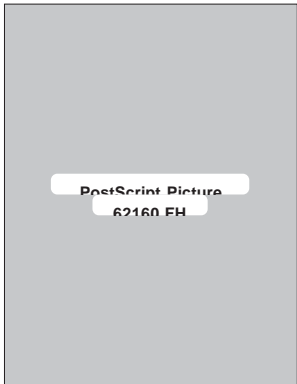
4130

| D | L2 | d | KN | Z/V | Part No. |
|-----|----|----|-------|-----|-------------|
| 100 | 30 | 30 | 8x2 | 2/4 | 4130.100.30 |
| 100 | 30 | 20 | 6x1.5 | 2/4 | 4130.101.30 |
| 100 | 50 | 30 | 8x2 | 2/4 | 4130.100.50 |
| 100 | 50 | 20 | 6x1.5 | 2/4 | 4130.101.50 |

4230

Inserts positioned with shear angle

| | | | | | |
|-----|----|----|-------|-----|-------------|
| 125 | 30 | 30 | 8x2 | 4/4 | 4230.125.30 |
| 125 | 30 | 20 | 6x1.5 | 4/4 | 4230.126.30 |
| 125 | 50 | 30 | 8x2 | 4/4 | 4230.125.50 |
| 125 | 50 | 20 | 6x1.5 | 4/4 | 4230.126.50 |



| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| 30x12x1.5 For L2=30 | 4200.030.00 |
| 50x12x1.5 For L2=50 | 4200.050.00 |
| 14x14x2.0 Spur | 4200.014.04 |

D: 100 mm
Maximum RPM:
7,800 - 13,300

D: 125 mm
Maximum RPM:
6,200 - 10,600

| Replacement Parts | Part No. |
|----------------------|-----------------|
| M4 screw | 39076-0-04000-R |
| M5x9 screw for spurs | 39130-0-05009-R |
| Torx wrench (T15) | 39077-0-04015-2 |

Lamello Groover For CNC



Carbide tipped (3116) and insert (3020) lamello groover that mount on adapter No. 6374 with four countersunk screws. For use on CNC routers and point to point machines.

3116/3020

No. 3116-Carbide Tipped Z=2/V=4

| D | B | d | Part No. |
|-----|------|----|-------------|
| 100 | 3.97 | 22 | 3116.101.22 |
| 100 | 3.97 | 30 | 3116.100.30 |

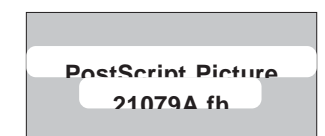
No. 3020-Insert Z=2/V=4

| D | B | d | Part No. |
|-----|------|----|-------------|
| 100 | 3.97 | 22 | 3020.101.22 |
| 100 | 3.97 | 30 | 3020.100.30 |

Lamello groovers supplied with four countersunk pinholes.
Arbor No. 6374 may be found on CNC page number 84.

| Solid Carbide Inserts | Part No. |
|-----------------------|-------------|
| Groover 18x18x1.95 | 4200.018.20 |
| Spur 14x14x1.2 | 4200.014.12 |

| Replacement Parts | Part No. |
|----------------------|-----------------|
| Torx screw | 3020.000.00 |
| Torx nut for groover | 3020.000.01 |
| Torx nut for spur | 3020.000.02 |
| Torx wrench (T9) | 39077-0-03009-2 |



3008 Z6

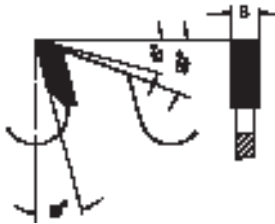
| D | B | d | Part No. |
|-----|------|----|-------------|
| 100 | 2.0 | 20 | 3008.100.20 |
| | 3.0 | 20 | 3008.100.30 |
| | 4.0 | 20 | 3008.100.40 |
| | 5.0 | 20 | 3008.100.50 |
| | 6.0 | 20 | 3008.100.60 |
| | 7.0 | 20 | 3008.100.70 |
| | 8.0 | 20 | 3008.100.80 |
| | 10.0 | 20 | 3008.100.10 |
| | 12.0 | 20 | 3008.100.12 |
| 100 | 7.0 | 30 | 3008.101.70 |

3008 Z12

| | | | |
|-------|------|----|-------------|
| 125 | 1.5 | 30 | 3008.125.15 |
| | 1.8 | 30 | 3008.125.18 |
| | 2.0 | 30 | 3008.125.20 |
| | 2.2 | 30 | 3008.125.22 |
| | 2.5 | 30 | 3008.125.25 |
| | 3.0 | 30 | 3008.125.30 |
| | 3.5 | 30 | 3008.125.35 |
| | 4.0 | 30 | 3008.125.40 |
| | 4.5 | 30 | 3008.125.45 |
| | 5.0 | 30 | 3008.125.50 |
| | 6.0 | 30 | 3008.125.60 |
| | 1/4 | 30 | 3008.125.63 |
| | 7 | 30 | 3008.125.70 |
| | 8 | 30 | 3008.125.80 |
| | 10 | 30 | 3008.125.01 |
| **125 | 4 | 35 | 3008.125.41 |
| | 6 | 35 | 3008.126.61 |
| 150 | 1.5 | 30 | 3008.150.15 |
| | 2.0 | 30 | 3008.150.20 |
| | 2.2 | 30 | 3008.150.22 |
| | 2.5 | 30 | 3008.150.25 |
| | 3.0 | 30 | 3008.150.30 |
| | 3.5 | 30 | 3008.150.35 |
| | 4.0 | 30 | 3008.150.40 |
| | 4.5 | 30 | 3008.150.45 |
| | 5.0 | 30 | 3008.150.50 |
| | 6.0 | 30 | 3008.150.60 |
| | 1/4 | 30 | 3008.150.63 |
| | 7.0 | 30 | 3008.150.70 |
| | 8.0 | 30 | 3008.150.80 |
| | 10.0 | 30 | 3008.150.01 |
| *150 | 1/4" | 30 | 3008.151.63 |
| 180 | 4.0 | 30 | 3008.180.40 |
| | 5.0 | 30 | 3008.180.50 |
| | 6.0 | 30 | 3008.180.60 |
| | 8.0 | 30 | 3008.180.80 |
| | 10.0 | 30 | 3008.180.01 |
| *180 | 1/4" | 30 | 3008.181.63 |
| | 7.0 | 30 | 3008.181.70 |

* With four countersunk pinholes for Weeke

** With single pinhole for Biese



Recommended RPM:

| | |
|-------|--------|
| D=100 | 12,000 |
| D=125 | 10,000 |
| D=150 | 8,000 |
| D=180 | 7,500 |

Quick Change Adapter



For converting multi-spindle boring machines from using threaded boring bits to standard boring bits with 10 mm shanks. Consisting of two parts, the machine adaptor and the drill holder offers quick and easy tool changes saving valuable production time. Ideal for high volume operations. Consult column for machine type.

6042/6043

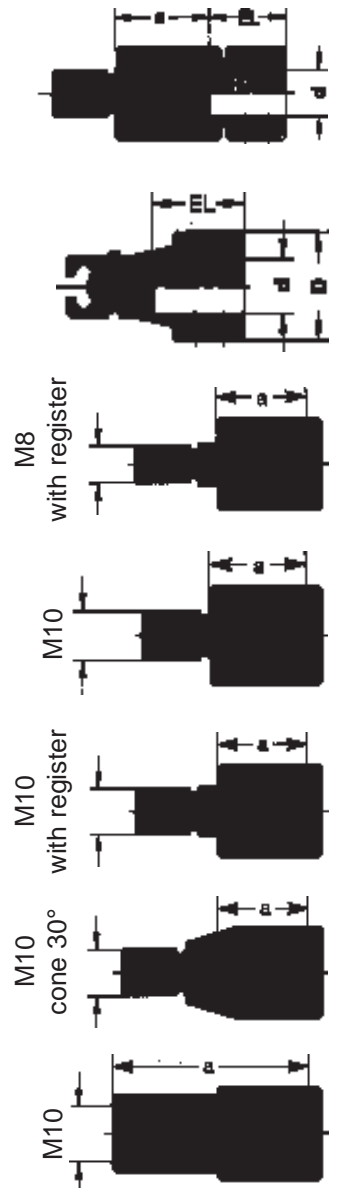
Quick change chucks that accept 8 mm shank drills available upon request.

| Drill Holder | Part No. RH & LH |
|--------------------------------|------------------|
| To fit in all machine adaptors | 6042.000.10 |

Machine adaptors

| For Machine | RH Part No. | LH Part No. |
|--|-------------|-------------|
| Nottmeyer (new), Brema | 6043.010.10 | 6043.010.11 |
| Ayen, Holzma Mayer, Torwegge | 6043.002.10 | 6043.002.11 |
| Maggi, Morbidelli, Weeke Torwegge, Biesse, Busellato Vitap (new), KOMO | 6043.009.10 | 6043.009.11 |
| Alberti, Bilek Balestrini, SCMI, Schleicher, Vitap (old) | 6043.004.10 | 6043.004.11 |
| Scheer | 6043.100.10 | 6043.100.11 |

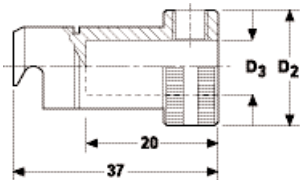
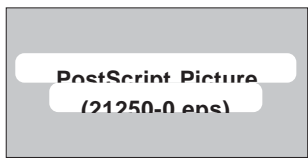
| | Part No. |
|----------------------------|-----------------|
| M5x4 replacement screw | 39070-0-05040-R |
| Wrench for M5 screw | 39120-0-02500-0 |
| Wrench for machine adaptor | 39073-0-00800-0 |



Threaded Adapter

6050

For converting multi-spindle boring machines from using threaded boring bits to standard boring bits with 10 mm shanks. Consult column for machine type.



| For Machine | RH Part No. | LH Part No. |
|--|-------------|-------------|
| Nottmeyer (old), | 6050.001.10 | 6050.001.11 |
| Nottmeyer (new), Brema | 6050.010.10 | 6050.010.11 |
| Ayen, Holzma Mayer, Torwegge | 6050.002.10 | 6050.002.11 |
| Maggi, Morbidelli, Weeke, Torwegge, Biesse, Busellato, Vitap (new), KOMO | 6050.009.10 | 6050.009.11 |
| Bilek K&N | 6050.005.10 | 6050.005.11 |
| Alberti, Bilek, Balestrini, SCMI, Schleicher, Vitap (old) | 6050.004.10 | 6050.004.11 |
| Scheer | 6050.100.10 | 6050.100.11 |
| Biesse, Koch | 6050.003.10 | 6050.003.11 |

Threaded adaptors that accept 8 mm shank drills available upon request.

| | Part No. |
|------------------------|-----------------|
| M6x6 replacement screw | 39070-0-06060-R |

Solid Carbide Drill

GUHDO®

Solid tungsten carbide twist drill with parallel shank and "V" point.
For use in drill holders 6002/6003 below.

6001

HSS available
upon request

| D | I | L | RH Part No. | LH Part No. |
|-----|----|----|-------------|-------------|
| 2 | 18 | 49 | 6001.020.00 | 6001.020.01 |
| 2,5 | 22 | 55 | 6001.025.00 | 6001.025.01 |
| 3 | 22 | 55 | 6001.030.00 | 6001.030.01 |
| 1/8 | 22 | 55 | 6001.032.00 | 6001.032.01 |
| 3,5 | 25 | 55 | 6001.035.00 | 6001.035.01 |
| 4 | 25 | 55 | 6001.040.00 | 6001.040.01 |



Drill Holder

Holder for twist drills No. 6001. Shank with flat for use in quick release adaptors 6040 and 6042 and reducing chucks 6050. Overall length is equivalent to dowel drills of 56/57mm length.

6002

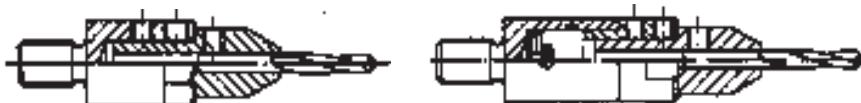
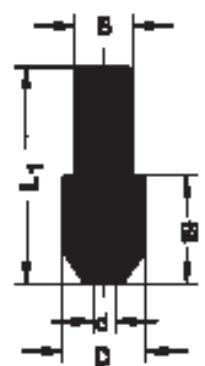
6003

| d | D | Split shank drill holder Part No. | Drill holder with shank Part No. |
|-----|----|-----------------------------------|----------------------------------|
| 2 | 10 | 6002.020.00 | 6003.020.00 |
| 2,5 | | 6002.025.00 | 6003.025.00 |
| 3 | | 6002.030.00 | 6003.030.00 |
| 1/8 | | 6002.032.00 | 6003.032.00 |
| 3,5 | | 6002.035.00 | 6003.035.00 |
| 4 | | 6002.040.00 | 6003.040.00 |
| 5 | | 6002.050.00 | |
| 6 | | 6002.060.00 | |

6002



6003



6016 Z2



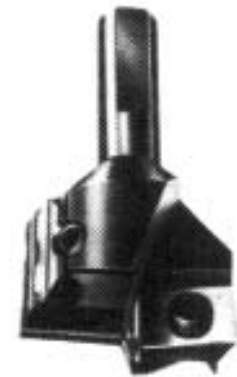
| D | L | S | Part No. |
|----|----|---------|-------------|
| 10 | 90 | 10 x 62 | 6016.100.00 |
| 11 | 90 | 10 x 62 | 6016.110.00 |
| 12 | 90 | 10 x 62 | 6016.120.00 |
| 13 | 90 | 10 x 62 | 6016.130.00 |
| 14 | 90 | 10 x 62 | 6016.140.00 |
| 15 | 90 | 10 x 62 | 6016.150.00 |
| 16 | 90 | 10 x 62 | 6016.160.00 |
| 17 | 90 | 10 x 62 | 6016.170.00 |
| 18 | 90 | 10 x 62 | 6016.180.00 |
| 19 | 90 | 10 x 62 | 6016.190.00 |
| 20 | 90 | 10 x 62 | 6016.200.00 |
| 21 | 90 | 10 x 62 | 6016.210.00 |
| 22 | 90 | 10 x 62 | 6016.220.00 |
| 23 | 90 | 10 x 62 | 6016.230.00 |
| 24 | 90 | 10 x 74 | 6016.240.00 |
| 25 | 90 | 10 x 74 | 6016.250.00 |
| 26 | 90 | 10 x 74 | 6016.260.00 |
| 27 | 90 | 10 x 74 | 6016.270.00 |
| 28 | 90 | 10 x 74 | 6016.280.00 |
| 29 | 90 | 10 x 74 | 6016.290.00 |
| 30 | 90 | 10 x 74 | 6016.300.00 |
| 31 | 90 | 10 x 74 | 6016.310.00 |
| 32 | 90 | 10 x 74 | 6016.320.00 |
| 33 | 90 | 10 x 74 | 6016.330.00 |
| 34 | 90 | 10 x 74 | 6016.340.00 |
| 35 | 90 | 10 x 74 | 6016.350.00 |
| 36 | 90 | 10 x 30 | 6016.360.00 |
| 37 | 90 | 10 x 30 | 6016.370.00 |
| 38 | 90 | 10 x 30 | 6016.380.00 |
| 39 | 90 | 10 x 30 | 6016.390.00 |
| 40 | 90 | 10 x 30 | 6016.400.00 |
| 41 | 90 | 10 x 30 | 6016.410.00 |
| 42 | 90 | 10 x 30 | 6016.420.00 |
| 43 | 90 | 10 x 30 | 6016.430.00 |
| 44 | 90 | 10 x 30 | 6016.440.00 |
| 45 | 90 | 10 x 30 | 6016.450.00 |
| 46 | 90 | 10 x 30 | 6016.460.00 |
| 47 | 90 | 10 x 30 | 6016.470.00 |
| 48 | 90 | 10 x 30 | 6016.480.00 |
| 49 | 90 | 10 x 30 | 6016.490.00 |
| 50 | 90 | 10 x 30 | 6016.500.00 |
| 51 | 90 | 10 x 30 | 6016.510.00 |
| 52 | 90 | 10 x 30 | 6016.520.00 |
| 53 | 90 | 10 x 30 | 6016.530.00 |
| 54 | 90 | 10 x 30 | 6016.540.00 |
| 55 | 90 | 10 x 30 | 6016.550.00 |
| 56 | 90 | 10 x 30 | 6016.560.00 |
| 57 | 90 | 10 x 30 | 6016.570.00 |
| 58 | 90 | 10 x 30 | 6016.580.00 |
| 59 | 90 | 10 x 30 | 6016.590.00 |
| 60 | 90 | 10 x 30 | 6016.600.00 |

Insert Hinge Boring Bit



| D | L | S | RH Part No. | LH Part No. |
|----|----|---------|-------------|-------------|
| 25 | 57 | 10 x 26 | 6095.250.00 | 6095.250.01 |
| 26 | 57 | 10 x 26 | 6095.260.00 | 6095.260.01 |
| 30 | 57 | 10 x 26 | 6095.300.00 | 6095.300.01 |
| 35 | 57 | 10 x 26 | 6095.350.00 | 6095.350.01 |

6095 Z2



| Solid Carbide Inserts | Part No. | Solid Carbide Inserts | Part No. |
|-----------------------|-------------|-----------------------|-------------|
| For D = 25 | 4200.105.00 | For D = 35 | 4200.015.00 |
| For D = 26 | 4200.011.00 | Spur | 6095.000.50 |
| For D = 30 | 4200.013.00 | Center Point | 6095.000.60 |

New style insert boring bit with interchangeable shanks to obtain an overall tool length of 55.5, 70, 90 and 140 mm length.

6096

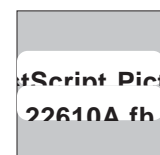
| D | L | S | RH Part No. | LH Part No. |
|----|------|-------|-------------|-------------|
| 25 | 55.5 | 10x28 | 6096.250.00 | 6096.250.01 |
| 26 | 55.5 | 10x28 | 6096.260.00 | 6096.260.01 |
| 30 | 55.5 | 10x28 | 6096.300.00 | 6096.300.01 |
| 34 | 55.5 | 10x28 | 6096.340.00 | - |
| 35 | 55.5 | 10x28 | 6096.350.00 | 6096.350.01 |
| 40 | 55.5 | 10x28 | 6096.400.00 | 6096.400.01 |
| 25 | 70 | 10x28 | 6096.250.10 | 6096.250.11 |
| 26 | 70 | 10x28 | 6096.260.10 | 6096.260.11 |
| 30 | 70 | 10x28 | 6096.300.10 | 6096.300.11 |
| 35 | 70 | 10x28 | 6096.350.10 | 6096.350.11 |
| 40 | 70 | 10x28 | 6096.400.10 | 6096.400.11 |

Interchangeable Shanks

| | | |
|--------------------------|-------------|-------------|
| 10x28mm for 57mm length | 6096.000.55 | 6095.000.56 |
| 10x28mm for 70mm length | 6096.000.70 | 6095.000.71 |
| 10x30mm for 90mm length | 6096.000.90 | - |
| 13x50mm for 140mm length | 6096.000.14 | - |

| Solid Carbide Inserts | Part No. |
|-------------------------|-------------|
| 10.8x5.5x1.1 for D=25mm | 6096.108.00 |
| 11.3x5.5x1.1 for D=26mm | 6096.113.00 |
| 13.3x5.5x1.1 for D=30mm | 6096.133.00 |
| 15.3x5.5x1.1 for D=34mm | 6096.153.00 |
| 15.8x5.5x1.1 for D=35mm | 6096.158.00 |
| 18.3x5.5x1.1 for D=40mm | 6096.183.00 |
| Spur RH | 6096.000.00 |
| Spur LH | 6096.000.01 |
| Center Point | 6096.000.50 |

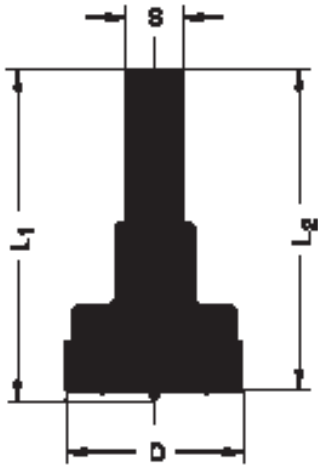
| Replacement Parts | Part No. |
|------------------------|-----------------|
| Retaining Ring | 39110-0-00001-0 |
| Screw for inserts | 39115-0-00001-0 |
| Screw for spur | 39084-0-03070-R |
| Screw for center point | 39080-0-30701-R |
| Torx wrench (T8) | 39077-0-03008-1 |



TCT Hinge Boring Bit

6017 Z2

With center point and shank adjustment screw.



| D | L | S | RH Part No. | LH Part No. |
|------|----|---------|-------------|-------------|
| 15 | 57 | 10 x 26 | 6017.150.00 | 6017.150.01 |
| 16 | 57 | 10 x 26 | 6017.160.00 | 6017.160.01 |
| 16.5 | 57 | 10 x 26 | 6017.165.00 | |
| 18 | 57 | 10 x 26 | 6017.180.00 | 6017.180.01 |
| 19 | 57 | 10 x 26 | 6017.190.00 | 6017.190.01 |
| 20 | 57 | 10 x 26 | 6017.200.00 | 6017.200.01 |
| 22 | 57 | 10 x 26 | 6017.220.00 | 6017.220.01 |
| 24 | 57 | 10 x 26 | 6017.240.00 | 6017.240.01 |
| 25 | 57 | 10 x 26 | 6017.250.00 | 6017.250.01 |
| 26 | 57 | 10 x 26 | 6017.260.00 | 6017.260.01 |
| 28 | 57 | 10 x 26 | 6017.280.00 | 6017.280.01 |
| 30 | 57 | 10 x 26 | 6017.300.00 | 6017.300.01 |
| 32 | 57 | 10 x 26 | 6017.320.00 | 6017.320.01 |
| 35 | 57 | 10 x 26 | 6017.350.00 | 6017.350.01 |
| 38 | 57 | 10 x 26 | 6017.380.00 | 6017.380.01 |
| 40 | 57 | 10 x 26 | 6017.400.00 | 6017.400.01 |

| | | | | |
|----|----|---------|-------------|-------------|
| 15 | 70 | 10 x 26 | 6017.150.10 | 6017.150.11 |
| 18 | 70 | 10 x 26 | 6017.180.10 | 6017.180.11 |
| 20 | 70 | 10 x 26 | 6017.200.10 | 6017.200.11 |
| 25 | 70 | 10 x 26 | 6017.250.10 | 6017.250.11 |
| 26 | 70 | 10 x 26 | 6017.260.10 | 6017.260.11 |
| 30 | 70 | 10 x 26 | 6017.300.10 | 6017.300.11 |
| 35 | 70 | 10 x 26 | 6017.350.10 | 6017.350.11 |
| 40 | 70 | 10 x 26 | 6017.400.10 | 6017.400.11 |

| | | | | |
|----|----|---------|-------------|-------------|
| 20 | 77 | 10 x 26 | 6017.200.40 | 6017.200.41 |
| 25 | 77 | 10 x 26 | 6017.250.40 | 6017.250.41 |
| 30 | 77 | 10 x 26 | 6017.300.40 | 6017.300.41 |
| 35 | 77 | 10 x 26 | 6017.350.40 | 6017.350.41 |

6018 Z3

With shank adjustment screw and two center point options, with center point or without center point.



| D | L | S | RH Part No. | LH Part No. |
|-------------------|----|---------|-------------|-------------|
| With center point | | | | |
| 25 | 57 | 10 x 26 | 6018.250.00 | 6018.250.01 |
| 26 | 57 | 10 x 26 | 6018.260.00 | 6018.260.01 |
| 30 | 57 | 10 x 26 | 6018.300.00 | 6018.300.01 |
| 35 | 57 | 10 x 26 | 6018.350.00 | 6018.350.01 |

| | | | | |
|----------------------|----|---------|-------------|-------------|
| Without center point | | | | |
| 25 | 57 | 10 x 26 | 6018.250.02 | 6018.250.03 |
| 26 | 57 | 10 x 26 | 6018.260.02 | 6018.260.03 |
| 30 | 57 | 10 x 26 | 6018.300.02 | 6018.300.03 |
| 35 | 57 | 10 x 26 | 6018.350.02 | 6018.350.03 |

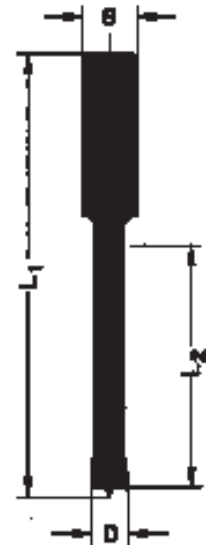
TCT Dowel Drill

GUHDO®

With brad point and shank adjustment screw.

6019

| D | I | L | S | RH Part No. | LH Part No. |
|----|----|-----|---------|-------------|-------------|
| 5 | 45 | 85 | 10 x 30 | 6019.050.00 | 6019.050.01 |
| 6 | 45 | 85 | 10 x 30 | 6019.060.00 | 6019.060.01 |
| 7 | 45 | 85 | 10 x 30 | 6019.070.00 | 6019.070.01 |
| 8 | 45 | 85 | 10 x 30 | 6019.080.00 | 6019.080.01 |
| 10 | 45 | 85 | 10 x 30 | 6019.100.00 | 6019.100.01 |
| 12 | 45 | 85 | 10 x 30 | 6019.120.00 | 6019.120.01 |
| 5 | 65 | 105 | 10 x 30 | 6019.050.10 | 6019.050.11 |
| 6 | 65 | 105 | 10 x 30 | 6019.060.10 | 6019.060.11 |
| 7 | 65 | 105 | 10 x 30 | 6019.070.10 | 6019.070.11 |
| 8 | 65 | 105 | 10 x 30 | 6019.080.10 | 6019.080.11 |
| 10 | 65 | 105 | 10 x 30 | 6019.100.10 | 6019.100.11 |
| 12 | 65 | 105 | 10 x 30 | 6019.120.10 | 6019.120.11 |



TCT V-Point Drill

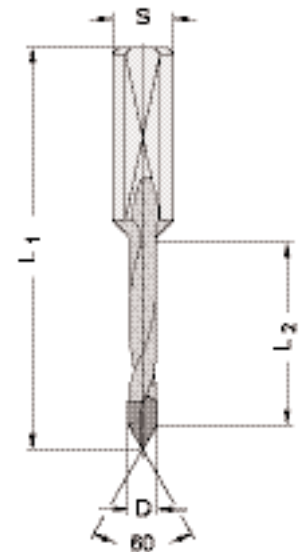
V-Point for eliminating blow out when drilling through double sided material.
With shank adjustment screw.

6028

| D | I | L | S | RH Part No. | LH Part No. |
|-----|----|----|---------|-------------|-------------|
| 3 | 27 | 57 | 10 x 22 | 6028.030.20 | 6028.030.21 |
| 4 | 25 | 57 | 10 x 25 | 6028.040.20 | 6028.040.21 |
| 5 | 27 | 57 | 10 x 24 | 6028.050.20 | 6028.050.21 |
| 5.1 | 27 | 57 | 10 x 24 | 6028.051.20 | 6028.051.21 |
| 6 | 27 | 57 | 10 x 24 | 6028.060.20 | 6028.060.21 |
| 8 | 27 | 57 | 10 x 24 | 6028.080.20 | 6028.080.21 |
| 10 | 27 | 57 | 10 x 24 | 6028.100.20 | 6028.100.21 |
| 4 | 35 | 70 | 10 x 24 | 6028.040.30 | 6028.040.31 |
| 5 | 35 | 70 | 10 x 24 | 6028.050.30 | 6028.050.31 |
| 6 | 35 | 70 | 10 x 24 | 6028.060.30 | 6028.060.31 |
| 1/4 | 35 | 70 | 10 x 24 | 6028.635.30 | 6028.635.31 |
| 7 | 35 | 70 | 10 x 24 | 6028.070.30 | 6028.070.31 |
| 8 | 35 | 70 | 10 x 24 | 6028.080.30 | 6028.080.31 |
| 9 | 35 | 70 | 10 x 24 | 6028.090.30 | 6028.090.31 |
| 3/8 | 35 | 70 | 10 x 24 | 6028.953.30 | 6028.953.31 |
| 10 | 35 | 70 | 10 x 24 | 6028.100.30 | 6028.100.31 |
| 12 | 35 | 70 | 10 x 24 | 6028.120.30 | 6028.120.31 |
| 5 | 45 | 77 | 10 x 24 | 6028.050.40 | 6028.050.41 |
| 6 | 45 | 77 | 10 x 24 | 6028.060.40 | 6028.060.41 |
| 8 | 45 | 77 | 10 x 24 | 6028.080.40 | 6028.080.41 |
| 10 | 45 | 77 | 10 x 24 | 6028.100.40 | 6028.100.41 |
| 12 | 45 | 77 | 10 x 24 | 6028.120.40 | 6028.120.41 |

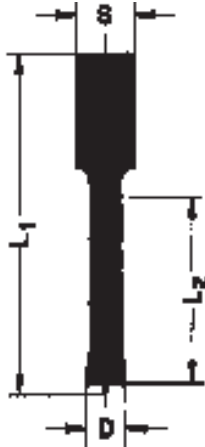
Selected sizes also available with 8 mm shanks.

Special diameters available upon request.



6024

With brad point and shank adjustment screw.



| D | I | L | S | RH Part No. | LH Part No. |
|------|----|----|---------|-------------|-------------|
| 3 | 16 | 57 | 10 x 30 | 6024.030.00 | 6024.030.01 |
| 4 | 27 | 57 | 10 x 30 | 6024.040.00 | 6024.040.01 |
| 4.5 | 27 | 57 | 10 x 30 | 6024.045.00 | 6024.045.01 |
| 5 | 27 | 57 | 10 x 30 | 6024.050.00 | 6024.050.01 |
| 5.1 | 27 | 57 | 10 x 30 | 6024.051.00 | 6024.051.01 |
| 5.2 | 27 | 57 | 10 x 30 | 6024.052.00 | 6024.052.01 |
| 6 | 27 | 57 | 10 x 30 | 6024.060.00 | 6024.060.01 |
| 1/4" | 27 | 57 | 10 x 30 | 6024.635.00 | 6024.635.01 |
| 7 | 27 | 57 | 10 x 30 | 6024.070.00 | 6024.070.01 |
| 8 | 27 | 57 | 10 x 30 | 6024.080.00 | 6024.080.01 |
| 8.2 | 27 | 57 | 10 x 30 | 6024.082.00 | 6024.082.01 |
| 9 | 27 | 57 | 10 x 30 | 6024.090.00 | 6024.090.01 |
| 3/8" | 27 | 57 | 10 x 30 | 6024.953.00 | 6024.953.01 |
| 10 | 27 | 57 | 10 x 30 | 6024.100.00 | 6024.100.01 |
| 11 | 27 | 57 | 10 x 30 | 6024.110.00 | 6024.110.01 |
| 12 | 27 | 57 | 10 x 30 | 6024.120.00 | 6024.120.01 |
| 1/2" | 27 | 57 | 10 x 30 | 6024.127.00 | 6024.127.01 |
| 13 | 30 | 57 | 10 x 20 | 6024.130.00 | 6024.130.01 |
| 14 | 30 | 57 | 10 x 20 | 6024.140.00 | 6024.140.01 |
| 15 | 30 | 57 | 10 x 20 | 6024.150.00 | 6024.150.01 |
| 16 | 30 | 57 | 10 x 20 | 6024.160.00 | 6024.160.01 |
| 4 | 35 | 70 | 10 x 30 | 6024.040.10 | 6024.040.11 |
| 5 | 35 | 70 | 10 x 30 | 6024.050.10 | 6024.050.11 |
| 7/32 | 35 | 70 | 10 x 30 | 6024.555.10 | 6024.555.11 |
| 6 | 35 | 70 | 10 x 30 | 6024.060.10 | 6024.060.11 |
| 1/4" | 35 | 70 | 10 x 30 | 6024.635.10 | 6024.635.11 |
| 7 | 35 | 70 | 10 x 30 | 6024.070.10 | 6024.070.11 |
| 8 | 35 | 70 | 10 x 30 | 6024.080.10 | 6024.080.11 |
| 9 | 35 | 70 | 10 x 30 | 6024.090.10 | 6024.090.11 |
| 3/8" | 35 | 70 | 10 x 30 | 6024.953.10 | 6024.953.11 |
| 10 | 35 | 70 | 10 x 30 | 6024.100.10 | 6024.100.11 |
| 11 | 35 | 70 | 10 x 30 | 6024.110.10 | 6024.110.11 |
| 12 | 35 | 70 | 10 x 30 | 6024.120.10 | 6024.120.11 |
| 1/2" | 35 | 70 | 10 x 30 | 6024.127.10 | 6024.127.11 |
| 13 | 43 | 70 | 10 x 20 | 6024.130.10 | 6024.130.11 |
| 14 | 43 | 70 | 10 x 20 | 6024.140.10 | 6024.140.11 |
| 15 | 43 | 70 | 10 x 20 | 6024.150.10 | 6024.150.11 |
| 16 | 43 | 70 | 10 x 20 | 6024.160.10 | 6024.160.11 |
| 5 | 44 | 77 | 10 x 30 | 6024.050.40 | 6024.050.41 |
| 6 | 44 | 77 | 10 x 30 | 6024.060.40 | 6024.060.41 |
| 7 | 44 | 77 | 10 x 30 | 6024.070.40 | 6024.070.41 |
| 8 | 44 | 77 | 10 x 30 | 6024.080.40 | 6024.080.41 |
| 10 | 44 | 77 | 10 x 30 | 6024.100.40 | 6024.100.41 |
| 12 | 44 | 77 | 10 x 30 | 6024.120.40 | 6024.120.41 |

Selected sizes also available with 8 mm shanks.

Special diameters available upon request.

Solid Carbide Boring Bit



New style solid carbide boring bit with special carbide grade. With large gullet to improve chip flow, extend tool life and increase boring rates. **Can be used for either RH or LH rotation.** Ideal for point to point machines.

6021

| D | L2 | L1 | S | Part Number |
|---|----|----|---------|-------------|
| 3 | 12 | 45 | 3 | 6021.030.00 |
| 4 | 12 | 45 | 3 | 6021.040.00 |
| 5 | 25 | 57 | 10 x 25 | 6021.050.00 |
| 6 | 25 | 57 | 10 x 25 | 6021.060.00 |
| 8 | 25 | 57 | 10 x 25 | 6021.080.00 |
| 5 | 35 | 70 | 10 x 25 | 6021.050.10 |
| 6 | 35 | 70 | 10 x 25 | 6021.060.10 |
| 8 | 35 | 70 | 10 x 25 | 6021.080.10 |

3 and 4 mm drills require 6003 adapter

| Feed per revolution: | | | | | |
|----------------------|------|------|------|------|-----------|
| n = | 3000 | 4500 | 6000 | 9000 | 12000 min |
| s max = | 1.0 | 1.0 | 0.8 | 0.6 | 0.5 mm |



TCT Dowel Drill

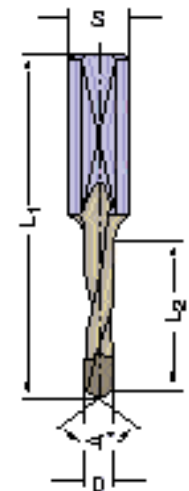
New style brad point boring bit with 10mm shank. With larger gullets to improve chip flow and extend tool life. The smaller tool body (see below), also increases the boring speed.

6023

| D | I | L | S | RH Part No. | LH Part No. |
|----|----|----|---------|-------------|-------------|
| 5 | 27 | 57 | 10 x 27 | 6023.050.00 | 6023.050.01 |
| 6 | 27 | 57 | 10 x 27 | 6023.060.00 | 6023.060.01 |
| 8 | 27 | 57 | 10 x 27 | 6023.080.00 | 6023.080.01 |
| 10 | 27 | 57 | 10 x 27 | 6023.100.00 | 6023.100.01 |
| 12 | 27 | 57 | 10 x 27 | 6023.120.00 | 6023.120.01 |
| 5 | 35 | 70 | 10 x 30 | 6023.050.10 | 6023.050.11 |
| 6 | 35 | 70 | 10 x 30 | 6023.060.10 | 6023.060.11 |
| 8 | 35 | 70 | 10 x 30 | 6023.080.10 | 6023.080.11 |
| 10 | 35 | 70 | 10 x 30 | 6023.100.10 | 6023.100.11 |
| 12 | 35 | 70 | 10 x 30 | 6023.120.10 | 6023.120.11 |

| Recommended Feedrate: | |
|------------------------|---------------------------------------|
| n (min ⁻¹) | v _r (m min ⁻¹) |
| 3000 | 1 - 2 |
| 4500 | 1.5 - 2.5 |
| 6000 | 2 - 3.5 |
| 9000 | 2.5 - 5.5 |

Depending on material, the optimum feedrate must be determined within the range provided.



Long Life Dowel Drill

6025



New style brad point bit with 10 mm shank. With larger gullets to improve chip flow and increase boring speed. Supplied with titanium coating and a special carbide grade for superior run times over traditional carbide boring bits.

| D | I | L | S | RH Part No. | LH Part No. |
|---|----|------|-------|-------------|-------------|
| 5 | 27 | 57.5 | 10x27 | 6025.050.00 | 6025.050.01 |
| 6 | 27 | 57.5 | 10x27 | 6025.060.00 | 6025.060.01 |
| 8 | 27 | 57.5 | 10x27 | 6025.080.00 | 6025.080.01 |
| 5 | 35 | 70 | 10x30 | 6025.050.10 | 6025.050.11 |
| 6 | 35 | 70 | 10x30 | 6025.060.10 | 6025.060.11 |
| 8 | 35 | 70 | 10x30 | 6025.080.10 | 6025.080.11 |

6128



Long Life V-Point Drill

New style v-point bit with 10 mm shank. With larger gullets to improve chip flow and increase boring speed. Supplied with titanium coating and a special carbide grade for superior run-times over traditional carbide boring bits.

| D | I | L | S | RH Part No. | LH Part No. |
|---|----|------|-------|-------------|-------------|
| 5 | 27 | 57.5 | 10x27 | 6128.050.20 | 6128.050.21 |
| 5 | 35 | 70 | 10x30 | 6128.050.30 | 6128.050.31 |
| 8 | 35 | 70 | 10x30 | 6128.080.30 | 6128.080.31 |

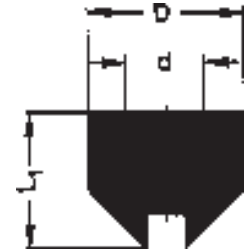
TCT Countersink



For use with dowel and V-point drills. Clamping on the spiral.

6030 Z2

| d | D | RH Part No. | LH Part No. |
|------|------|-------------|-------------|
| 4 | 15.5 | 6030.040.00 | 6030.040.01 |
| 5 | 15.5 | 6030.050.00 | 6030.050.01 |
| 6 | 15.5 | 6030.060.00 | 6030.060.01 |
| 1/4" | 15.5 | 6030.635.00 | 6030.635.01 |
| 7 | 15.5 | 6030.070.00 | 6030.070.01 |
| 8 | 15.5 | 6030.080.00 | 6030.080.01 |
| 9 | 15.5 | 6030.090.00 | 6030.090.01 |
| 10 | 20 | 6030.100.00 | 6030.100.01 |
| 12 | 20 | 6030.120.00 | 6030.120.01 |



For use with dowel and V-point drills. Clamping on the shank.

6034 Z2

| d | D | For Drills | RH Part No. | LH Part No. |
|----|----|------------|-------------|-------------|
| 10 | 20 | 5 to 10 | 6034.010.00 | 6034.010.01 |
| 10 | 22 | 11 and 12 | 6034.020.00 | 6034.020.01 |



Special HSS & TCT Drills

No. 6012 and 6112 are specially manufactured drills with built in countersinks or counterbores. For quoting purposes, please specify quantity, material (HSS or TCT), brad or V-Point, rotation and all dimensions per the drawing shown.

6012/6112

Form A



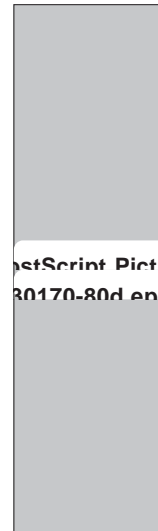
Form B



Form C



Form D

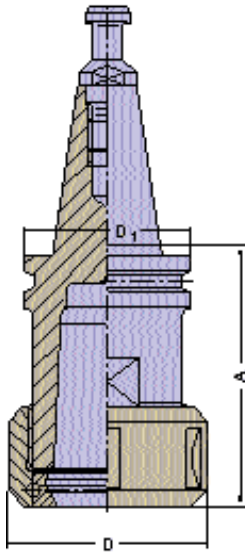


Collet Chucks For CNC Routers

6369/6370

For use on CNC routers and point to point machines with automatic Type 6369 tool changers. Supplied with collet nut and pull stud. Collet and wrench not included.

Type 6369



Type 6370



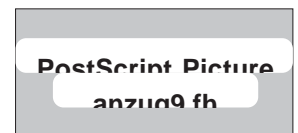
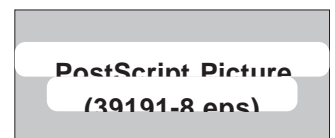
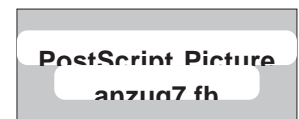
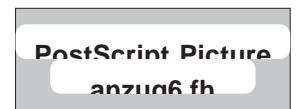
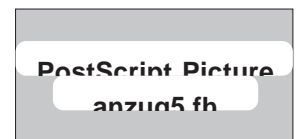
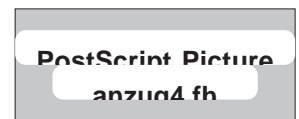
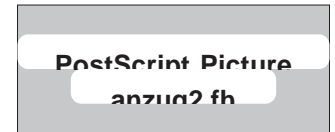
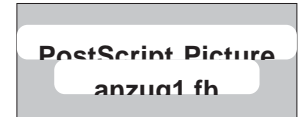
See pages 85-86 for tool set up fixture and presetter.

Hydro Chucks available upon request.

| D | L2 | d | KN | Tmax | Part No. |
|---|----|----|----|-------|-------------|
| SK30 | | 55 | 43 | RDO25 | 6369.355.00 |
| SK30 | | 60 | 43 | RDO25 | 6369.360.00 |
| SK30 | | 79 | 60 | RDO35 | 6369.370.00 |
| SK40 | 50 | 50 | | ER32 | 6369.450.00 |
| SK40 | 70 | 60 | | RDO35 | 6369.470.00 |
| For Machine: Busellato, IMA & Weeke | | | | | |
| SK30 | 70 | 60 | | RDO35 | 6369.371.00 |
| For Machine: Northwood & Motionmaster (Colombo) | | | | | |
| SK30 | | 60 | 50 | ER32 | 6369.351.00 |
| For Machine: Alberti | | | | | |
| SK30 | 50 | 50 | | ER32 | 6369.252.00 |
| SK30 | 57 | 57 | | ER40 | 6369.357.20 |
| For Machine: Anderson | | | | | |
| SK30 | | 64 | 50 | RDO35 | 6369.364.00 |
| SK30 | | 66 | 60 | RDO35 | 6369.366.00 |
| For Machine: Biesse, Egurko, Masterwood & Motionmaster (HSD), HolzHer | | | | | |
| SK30 | 50 | 50 | | ER32 | 6369.350.00 |
| For Machine: Esseteam | | | | | |
| SK30 | 66 | 60 | | RDO35 | 6369.366.00 |
| For Machine: CMS (ISO-Standard D1=46 mm) | | | | | |
| ISO30 | 50 | 50 | | ER32 | 6369.353.00 |
| ISO30 | 46 | 50 | | ETS32 | 6369.380.00 |
| ISO30 | 60 | 50 | | ER32 | 6369.382.00 |
| ISO30 | 60 | 63 | | ETS40 | 6369.381.00 |
| For Machine: Shoda | | | | | |
| BT30 | 60 | 50 | | ER32 | 6369.430.00 |
| BT20 | 60 | 42 | | ER25 | 6369.430.25 |
| For Machine: Heian - Kitaka | | | | | |
| BT35 | 65 | 50 | | ER32 | 6369.400.00 |
| For Machine: Morbidelli & SCM (Routech) | | | | | |
| ISO30 | 55 | 50 | | ER32 | 6370.355.00 |
| ISO30 | 70 | 63 | | RDO35 | 6370.370.00 |

Replacement Parts – Retaining Studs

| Machine | Size | DIN No. | Part No. |
|--|-------------|------------|-----------------|
| 1. Busellato, IMA, Komo, Northwood, Weeke, etc. | 13/9-M12 | 69872 | 39191-0-00013-0 |
| 2. IMA, Maka, Stegher, etc. | 19/14-M16 | 69872 | 39191-0-00019-0 |
| 3. Biesse, Masterwood, Motionmaster (HSD Motor) | 12/8-M12 | | 39191-0-00121-0 |
| 4. Alberti, Masterwood, Motionmaster (Colombo Motor) | 13/9-M12 | | 39191-0-00131-0 |
| 5. Morbidelli & SCMI | 8.5/6.5-M10 | | 39191-0-00085-0 |
| 6. Shoda | 11/7-M12 | | 39191-0-00110-0 |
| 7. Heian/Kitaka | 13/8.5-M12 | JIS B 6339 | 39191-0-00137-0 |
| 8. CMS | 12.8/9-M12 | | 39191-0-00128-0 |
| 9. Esseteam | 12/8-M12 | | 39191-0-00122-0 |

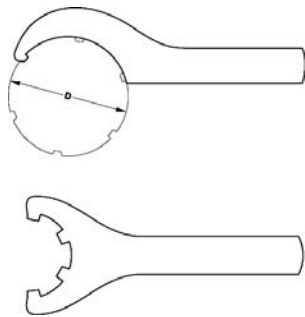


6375

For use on CNC routers and point to point machines with automatic tool changers. With hollow taper shank according to DIN 69893. Supplied without collets and wrenches.



| Shank | A1 | A | D | d1/d2 | Collet | Part No. |
|---|----|-----|----|-------|--------|-------------|
| HSK50F | 18 | 75 | 60 | 50/30 | RDO35 | 6375.500.00 |
| HSK50F | 18 | 115 | 60 | 50/30 | RDO35 | 6375.500.18 |
| For Machine: IMA, Northwood, Weeke & Holzher | | | | | | |
| HSK63F | 18 | 75 | 60 | 63/38 | RDO35 | 6375.630.00 |
| HSK63F (LH) | 18 | 75 | 60 | 63/38 | RDO35 | 6375.630.01 |
| HSK63F | 18 | 115 | 60 | 63/38 | RDO35 | 6375.630.18 |
| For Machine: IMA (Models before 9-1994) | | | | | | |
| HSK63F | 9 | 75 | 60 | 63/38 | RDO35 | 6375.630.09 |
| For Machine: Biesse, KOMO & Busellato | | | | | | |
| HSK63F | 18 | 76 | 63 | 63/38 | ER40 | 6375.630.40 |
| For Machine: Morbidelli, SCM (Routech) & Masterwood | | | | | | |
| HSK63F | 18 | 70 | 50 | 63/38 | ER32 | 6375.630.10 |
| For Machine: CMS | | | | | | |
| HSK63E | 18 | 78 | 63 | 63/38 | ER40 | 6375.630.19 |
| HSK63E | 18 | 78 | 63 | 63/38 | ETS40 | 6375.630.20 |
| HSK63F | 18 | 80 | 60 | 63/38 | RDO35 | 6375.630.80 |
| For Machine: Anderson | | | | | | |
| HSK63F | 18 | 80 | 60 | 63/38 | RDO35 | 6375.630.80 |



| Replacement Parts - Nuts for Collet Chucks | | | | |
|--|----------|-------------|--------|-------------|
| Nut Size (D) | Nut Type | Collet Type | Slots | Part No. |
| M40 x 1.5 (50) | Bearing | ER32 | closed | 6366.020.00 |
| M40 x 1.5 (50) | Bearing | ER32 | open | 6355.021.00 |
| M48 x 1.5 (60) | Bearing | RDO35 | closed | 6366.025.00 |
| M50 x 1.5 (63) | Bearing | ER40 | closed | 6366.024.00 |
| M40 x 1.5 (50) | Static | ER32 | open | 6366.015.00 |
| M40 x 1.5 (50) | Static | ETS32 | open | 6366.010.00 |

HSK chucks offer the following benefits:

- increased torque transmission
- high static and dynamic rigidity
- improved tool change accuracy and repeatability
- less weight and shorter shank length
- low take in and ejection force

See pages 85-86 for Tool set up fixture and presetter.

| Replacement Parts - Wrench for Nuts | | |
|-------------------------------------|--------|-------------|
| Nut Size (D) | Slots | Part No. |
| M40 x 1.5 | closed | 6366.000.20 |
| M40 x 1.5 | open | 6366.000.21 |
| M48 x 1.5 | closed | 6366.000.25 |
| M50 x 1.5 | closed | 6366.000.25 |

Hydro Chucks available upon request.

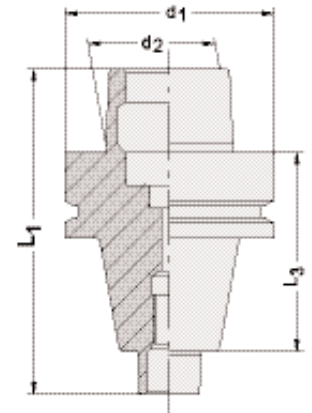
HSK Collet Chuck For HSK25R



An HSK arbor designed to accept cutter heads with the HSK25R clamping system.

6391

| Shank | L3 | L1 | Part No. |
|--------|----|----|-------------|
| HSK63F | 60 | 98 | 6391.630.25 |

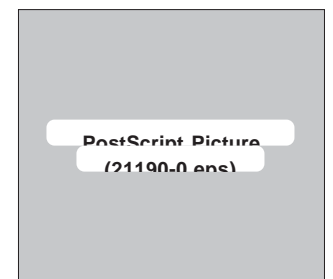


Tapered Spindle Wipers

Keep the contact between the chuck and motor dust free with the following taper wipers (preventive maintenance).

6350

| D | Part No. |
|--------|-------------|
| SK30 | 6350.000.30 |
| SK40 | 6350.000.40 |
| HSK63F | 6350.000.63 |



Adapter For Drills

6380

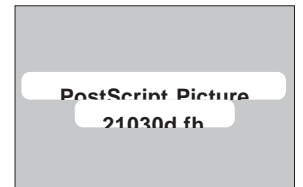
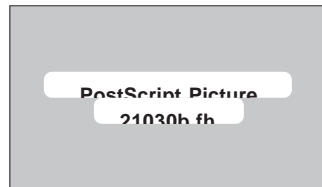
Precision drill adapter for clamping of boring bits with highclamping power and accuracy. Infinitely adjustable up to either 13mm or 16mm depending on type of adapter. Can be used in either RH or LH rotations.



| Shank | A | D | d | Part Number |
|--|----|----|------|-------------|
| SK 30 | 90 | 50 | 1-13 | 6380.100.00 |
| For Machines: Biesse, Masterwood, & Motion Master (HSD motor) | | | | |
| SK 30 | 90 | 50 | 1-13 | 6380.200.00 |
| For Machines: Biesse, Masterwood, & Motion Master (Colombo motor) | | | | |
| SK 30 | 90 | 50 | 1-13 | 6380.300.00 |
| For Machines: Morbidelli & SCM | | | | |
| SK 30 | 90 | 50 | 1-13 | 6380.400.00 |
| For Machines: Maka, Reichenbacher, & Stegherr | | | | |
| SK 40 | 90 | 50 | 1-13 | 6380.500.00 |
| SK 40 | 90 | 57 | 3-16 | 6380.600.00 |
| For Machines: Homag, IMA, Weeke, Komo, Biesse, Northwood, SCM & Morbidelli | | | | |
| HSK 63F | 97 | 50 | 1-13 | 6380.700.00 |
| HSK 63F | 97 | 57 | 3-16 | 6380.800.00 |



| Replacement Parts | Part No. |
|-------------------|-----------------|
| S W 6 wrench | 39140-0-00601-0 |



Collet Chuck For Weeke

6365

Used on some Weeke point to point machines that utilize the ETP hydro grip G25.



| Shank | L1 | Collet Type | Part No. |
|-------|----|-------------|-------------|
| 25mm | 77 | RDO20 | 6365.020.25 |

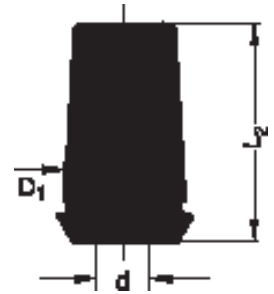
Precision Collet (RDO 20)

GUHDO®

For use on chuck number 6365.020.25

6360

| D | d | Part No. |
|-------|----|-------------|
| 1/8" | 34 | 6360.032.20 |
| 1/4" | 34 | 6360.635.20 |
| 5/16" | 34 | 6360.080.20 |
| 3/8" | 34 | 6360.953.20 |
| 1/2" | 34 | 6360.130.20 |

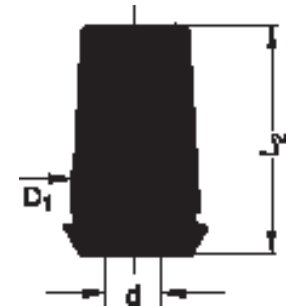


| D | d | Part No. |
|---|---|----------|
|---|---|----------|

Precision Collet (RDO 25)

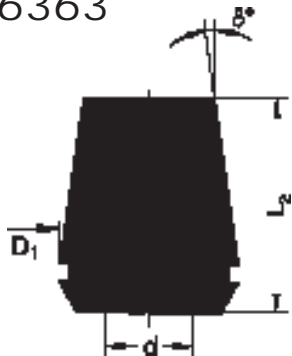
6360

| | | |
|-------------|----|-------------|
| 6mm | 40 | 6360.060.00 |
| 1/4" | 40 | 6360.635.00 |
| 3/8" | 40 | 6360.953.00 |
| 8mm (5/16") | 40 | 6360.080.00 |
| 10mm | 40 | 6360.100.00 |
| 12mm | 40 | 6360.120.00 |
| 1/2" | 40 | 6360.130.00 |
| 5/8" | 40 | 6360.160.00 |



Precision Collet (RDO 35)

| | | |
|-------------|----|-------------|
| 6mm | 52 | 6360.060.10 |
| 1/4" | 52 | 6360.635.10 |
| 8mm (5/16") | 52 | 6360.080.10 |
| 3/8" | 52 | 6360.953.10 |
| 10mm | 52 | 6360.100.10 |
| 12mm | 52 | 6360.120.10 |
| 1/2" | 52 | 6360.130.10 |
| 16mm (5/8") | 52 | 6360.160.10 |
| 18mm | 52 | 6360.180.10 |
| 3/4" | 52 | 6360.195.10 |
| 20mm | 52 | 6360.200.10 |
| 25mm | 52 | 6360.250.10 |
| 1" | 52 | 6360.254.10 |

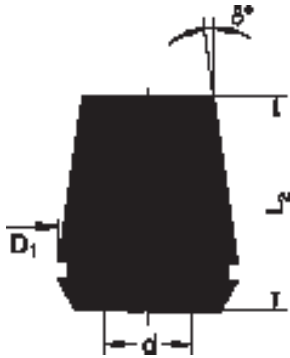


Precision Collet (ER 25)

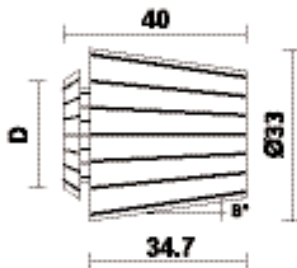
6363

| | | |
|-------------|----|-------------|
| 3mm | 34 | 6363.030.25 |
| 1/8" | 34 | 6363.032.25 |
| 6mm | 34 | 6363.060.25 |
| 1/4" | 34 | 6363.635.25 |
| 5/16" (8mm) | 34 | 6363.080.25 |
| 3/8" | 34 | 6363.953.25 |
| 1/2" | 34 | 6363.130.25 |
| 5/8" | 34 | 6363.160.25 |

6363



6362



| D | d | Part No. |
|---|---|----------|
|---|---|----------|

Precision Collet (ER 32)

| | | |
|-------------|----|-------------|
| 6mm | 40 | 6363.065.00 |
| 1/4" | 40 | 6363.635.00 |
| 8mm (5/16") | 40 | 6363.080.00 |
| 3/8" | 40 | 6363.953.00 |
| 10mm | 40 | 6363.100.00 |
| 12mm | 40 | 6363.120.00 |
| 1/2" | 40 | 6363.130.00 |
| 16mm (5/8") | 40 | 6363.160.00 |
| 18mm | 40 | 6363.180.00 |
| 3/4" | 40 | 6363.190.00 |
| 20mm | 40 | 6363.200.00 |

Precision Collet (ER 40)

| | | |
|-------------|----|-------------|
| 3mm | 46 | 6363.030.10 |
| 1/8" | 46 | 6363.032.10 |
| 1/4" | 46 | 6363.635.10 |
| 5/16" (8mm) | 46 | 6363.080.10 |
| 3/8" | 46 | 6363.953.10 |
| 10mm | 46 | 6363.100.10 |
| 12mm | 46 | 6363.120.10 |
| 1/2" | 46 | 6363.130.10 |
| 5/8" | 46 | 6363.160.10 |
| 3/4" | 46 | 6363.190.10 |
| 20mm | 46 | 6363.200.10 |
| 25mm | 46 | 6363.250.10 |
| 1" | 46 | 6363.254.10 |

Precision Collet (ETS 32 - For CMS)

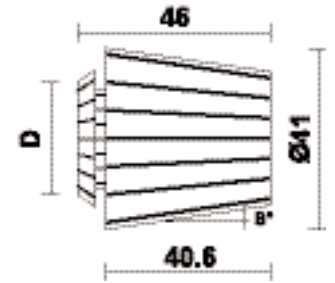
| | | |
|-------------|----|-------------|
| 6mm | 40 | 6362.060.00 |
| 1/4" | 40 | 6362.635.00 |
| 3/8" | 40 | 6362.953.00 |
| 10mm | 40 | 6362.100.00 |
| 1/2" | 40 | 6362.130.00 |
| 5/8" (16mm) | 40 | 6362.160.00 |
| 3/4" | 40 | 6362.190.00 |

Precision Collet (ETS 40 - For CMS)



| S | L2 (mm) | Part No. |
|-------------|---------|-------------|
| 6mm | 46 | 6362.060.10 |
| 1/4" | 46 | 6362.635.10 |
| 3/8" | 46 | 6362.953.10 |
| 10mm | 46 | 6362.100.10 |
| 1/2" | 46 | 6362.130.10 |
| 5/8" (16mm) | 46 | 6362.160.10 |
| 3/4" | 46 | 6362.190.10 |
| 25mm | 46 | 6362.250.10 |
| 1" | 46 | 6362.254.10 |

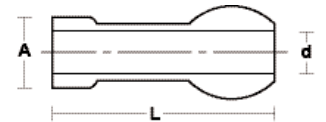
6362



Precision Collets For Shoda

| S | L2 (mm) | A (mm) | Type | LH Part No. |
|-------|---------|--------|-------------|-------------|
| 1/4" | 52 | 20 | old style | 6361.635.20 |
| 5/16" | 52 | 20 | old style | 6361.080.20 |
| 3/8" | 52 | 20 | old style | 6361.953.20 |
| 1/2" | 52 | 20 | old style | 6361.130.20 |
| 5/8" | 52 | 20 | old style | 6361.160.20 |
| 1/8" | 52 | 16 | piggy back | 6361.032.16 |
| 3/16" | 52 | 16 | piggy back | 6361.187.16 |
| 1/4" | 52 | 16 | piggy back | 6361.635.16 |
| 5/16" | 52 | 16 | piggy back | 6361.080.16 |
| 3/8" | 52 | 16 | piggy back | 6361.953.16 |
| 1/2" | 52 | 16 | piggy back | 6361.130.16 |
| 1/8" | 52 | 24 | new style | 6361.032.24 |
| 1/4" | 52 | 24 | new style | 6361.635.24 |
| 5/16" | 52 | 24 | new style | 6361.080.24 |
| 3/8" | 52 | 24 | new style | 6361.953.24 |
| 1/2" | 52 | 24 | new style | 6361.130.24 |
| 5/8" | 52 | 24 | new style | 6361.160.24 |
| 3/4" | 52 | 24 | new style | 6361.190.24 |
| 1/4" | 40 | 23 | super shoda | 6361.635.23 |
| 3/8" | 40 | 23 | super shoda | 6361.953.23 |
| 10mm | 40 | 23 | super shoda | 6361.100.23 |
| 1/2" | 40 | 23 | super shoda | 6361.130.23 |

6361



| Replacement Parts - Collet Nuts | Part No. |
|---------------------------------|-------------|
| Shoda old style | 6361.041.00 |
| Shoda piggy back | 6361.036.00 |
| Shoda new style | 6361.046.00 |
| Shoda super shoda | 6361.050.00 |



6374

Arbor for mounting groovers and saw blades for horizontal grooving and sawing. Maximum kerf width up to 10mm. Kerf width of 3.5mm and below require separate clamping ring below, (for d=30 adapter only).



| d | L2 | L1 | TK | Shank Dia./Length | Part No. |
|----|----|----|----|-------------------|-------------|
| 22 | 4 | 90 | 36 | 3/4 X 65m.E. | 6374.022.34 |
| 22 | 4 | 90 | 36 | 25 X 65m.E. | 6374.022.04 |
| 30 | 4 | 90 | 48 | 3/4 X 65m.E. | 6374.030.34 |
| 30 | 4 | 90 | 48 | 25 X 65m.E. | 6374.030.04 |

| Replacement Parts | Part No. |
|----------------------------------|-----------------|
| M6 X 16 screw | 39125-0-06016-R |
| Clamping Ring 60 X 4 X 30 (d=30) | 39541-0-04000-3 |
| Clamping Ring 50 x 4 x 22 (d=22) | 39541-0-04022-3 |
| Wrench SW 3 | 39140-0-00302-0 |

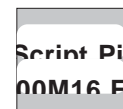
Arbors SK 30-ISO 30



6377

Arbors for mounting cutterheads with 20mm or 30mm bore. Cutterheads are secured with a double threaded end retaining screw. Available with single keyway or drive mounting holes. Supplied without spacers (see #5005). **Please specify machine type when ordering.**

| d | L2 | L3 | KN/TK | Part No. |
|---|----|----|---------|-------------|
| For Machine: ANDI, IMA, Northwood & Weeke | | | | |
| with single keyway | | | | |
| 20 | 40 | 45 | 6 X 1.5 | 6377.320.40 |
| 20 | 55 | 45 | 6 X 1.5 | 6377.320.55 |
| 20 | 70 | 45 | 6 X 1.5 | 6377.320.70 |
| 30 | 40 | 45 | 8 X 2 | 6377.330.40 |
| 30 | 55 | 45 | 8 X 2 | 6377.330.55 |
| 30 | 80 | 45 | 8 X 2 | 6377.330.80 |
| with drive mounting holes | | | | |
| 20 | 40 | 45 | 36 | 6377.520.40 |
| 20 | 55 | 45 | 36 | 6377.520.55 |
| 30 | 40 | 45 | 48 | 6377.530.40 |
| 30 | 55 | 45 | 48 | 6377.530.55 |
| For Machine: Biesse, HolzHer (Masterwood) & Motion Master | | | | |
| 20 | 40 | 45 | 6 X 1.5 | 6377.420.40 |
| 20 | 55 | 45 | 6 X 1.5 | 6377.420.55 |
| 20 | 70 | 45 | 6 X 1.5 | 6377.420.70 |
| 30 | 40 | 45 | 8 X 2 | 6377.430.40 |
| 30 | 55 | 45 | 8 X 2 | 6377.430.55 |
| 30 | 80 | 45 | 8 X 2 | 6377.430.80 |
| For Machine: CMS (D1=46 mm) | | | | |
| 20 | 40 | 45 | 6 X 1.5 | 6377.820.40 |
| 20 | 55 | 45 | 6 X 1.5 | 6377.820.55 |
| 20 | 70 | 45 | 6 X 1.5 | 6377.820.70 |
| 30 | 40 | 45 | 8 X 2 | 6377.830.40 |
| 30 | 55 | 45 | 8 X 2 | 6377.830.55 |
| 30 | 80 | 45 | 8 X 2 | 6377.830.80 |



NOTE: ADHERE TO WEIGHT AND DIAMETER SPECIFICATIONS AND MAXIMUM OPERATING SPEEDS (MAX RPM) ESTABLISHED BY MACHINE MANUFACTURERS

SK 40 - ISO 40
available upon request

Arbor SK 30

6377

For Machine: SCM (Routech)/Morbidelli



PostScript Picture
21083 FH



| d | L2 | L3 | KN | Part No. |
|----|----|----|---------|-------------|
| 20 | 40 | 45 | 6 X 1.5 | 6377.620.40 |
| 20 | 55 | 45 | 6 X 1.5 | 6377.620.55 |
| 20 | 70 | 45 | 6 X 1.5 | 6377.620.70 |
| 30 | 40 | 45 | 8 X 2 | 6377.630.40 |
| 30 | 55 | 45 | 8 X 2 | 6377.630.55 |
| 30 | 80 | 45 | 8 X 2 | 6377.630.80 |

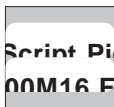
Arbor HSK63F

6377

For Machine: Weeke, IMA, Northwood, Komo, Biesse, SCM & Morbidelli.



PostScript Picture
(21086 ens)



| d | L2 | L3 | KN | Part No. |
|---------------------------|----|----|---------|-------------|
| 20 | 40 | 45 | 6 X 1.5 | 6377.721.40 |
| 20 | 40 | 80 | 6 X 1.5 | 6377.720.40 |
| 20 | 55 | 45 | 6 X 1.5 | 6377.721.55 |
| 20 | 55 | 80 | 6 X 1.5 | 6377.720.55 |
| 20 | 70 | 45 | 6 X 1.5 | 6377.721.70 |
| 20 | 70 | 80 | 6 X 1.5 | 6377.720.70 |
| 30 | 55 | 45 | 8 X 2 | 6377.730.55 |
| 30 | 80 | 45 | 8 X 2 | 6377.731.80 |
| 30 | 80 | 80 | 8 X 2 | 6377.730.80 |
| With drive mounting holes | | | | |
| 1-1/4" | 3" | 45 | | 6377.730.76 |

Ringset For Arbors

GUHDO®

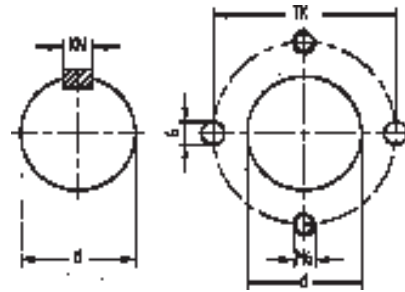
Standard ring sets for arbor number 6377.

5005

| d | D | For L2 | KN/TK | Part No. |
|--------|----|--------|------------|-------------|
| 16 | 32 | 33 | 5X1 (KN) | 5005.016.33 |
| 20 | 50 | 40 | 6X1.5 (KN) | 5005.020.40 |
| 20 | 50 | 55 | 6X1.5 (KN) | 5005.020.55 |
| 20 | 50 | 70 | 6X1.5 (KN) | 5005.020.70 |
| 30 | 60 | 40 | 8X2 (KN) | 5005.030.40 |
| 30 | 60 | 55 | 8X2 (KN) | 5005.030.55 |
| 30 | 60 | 80 | 8X2 (KN) | 5005.030.80 |
| 16 | 32 | 33 | 24 (TN) | 5005.016.34 |
| 20 | 50 | 40 | 36 (TN) | 5005.020.41 |
| 20 | 50 | 55 | 36 (TN) | 5005.020.56 |
| 30 | 60 | 40 | 48 (TN) | 5005.030.41 |
| 30 | 60 | 55 | 48 (TN) | 5005.030.56 |
| 1-1/4" | 60 | 3" | 48 (TK) | 5005.031.76 |

Set consisting of the following spacers

| | |
|---------|--|
| L2=33mm | 1x10.0/2x5.0/2x3.0/2x2.0/2x1.0/1x0.5mm |
| L2=40mm | 2x10.0/2x5.0/1x3.0/2x2.0/2x1.0/1x0.5mm |
| L2=55mm | 3x10.0/2x5.0/2x3.0/2x2.0/2x1.0/2x0.5mm |
| L2=70mm | 4x10.0/3x5.0/2x3.0/2x2.0/2x1.0/2x0.5mm |
| L2=80mm | 5x10.0/3x5.0/2x3.0/2x2.0/2x1.0/2x0.5mm |

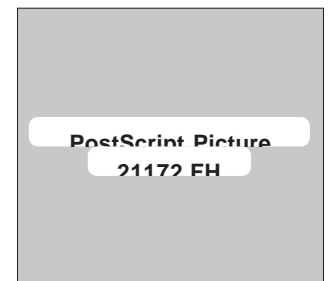


Tool Set Up Fixture

Special set up fixture for use with CNC machines with automatic tool changers. When firmly clamped to a work bench, the set up fixture offers a safe and effective way to check and prepare your tooling before it is put into the machine. Designed to accept the following tapered chucks.

6355

| S | L2 (mm) | Part No. |
|-----------------------|---------|-------------|
| SK30/HSK 50F | 50 | 6355.500.00 |
| SK40 | 63.5 | 6355.635.00 |
| SK30 (SCM/Morbidelli) | 49 | 6355.490.00 |
| BT30/ISO 30 (CMS) | 46 | 6355.460.00 |
| HSK 63F | 63 | 6355.630.00 |
| BT35 | 53 | 6355.350.00 |



P382

Application

- For measuring length and radius (diameter) of reference points of profiled and non-profiled tools.
- For precise measurements of tool sets
- Suitable for ISO30, SK30, 40 & 50 & HSK50F, HSK63F & HSK63E chucks.

Benefits

- Reduced down time
- Increases accuracy
- Reduced material cost (no test cuts)
- Quality control

Technical Features

- Alpha-numeral keyboard
- Backlit display
- Memory of 100 machine origins
- Metric to inch conversion
- Absolute incremental measurement
- Hold Function

Machine Specifics

- Measuring capabilities
- Diameter: 250mm (9.850")
- Height: 300mm (11.80")
- Slide Guide: Ball re-circulating guide with preloaded side blocks
- Measuring Sensor: Precision optical lines
- Resolution: 0.01mm (0.0003")
- Dimensions: 520mm (20.5") x 280mm (11.0") x 73mm (2.875")
- Weight: 135lbs.
- Electrical Supply: 220V



Our Guarantee



GUHDO Tools are guaranteed against defects in workmanship, materials and performance provided the tool has not been incorrectly applied or misused.

For Your Information

Shipping Procedures

All shipments are shipped by UPS unless otherwise specified.

Returning Merchandise

- Merchandise may be returned only with advanced approval.
- There will be a 15% restocking charge on returned stock items.
 - Non stock items will have a 20% restocking charge.
- Custom tooling is not returnable, neither are discontinued items.
- No merchandise may be returned after 6 months from the date of purchase. Shipping charges on all returned merchandise must be prepaid.

Cancellation

- On standard orders, cancellation will be accepted without charge. Special orders may be cancelled, but there will be a charge that is reasonable and proper, based on the status of merchandise in process and expenses already incurred as well as commitments made by the company.

Terms

- All new accounts will be shipped on a C.O.D. basis until credit has been established. Credit Accounts are due 30 days from the date of invoice. Past due accounts will be charged a finance charge at the periodic rate of 1½% per month, which is an Annual Percentage Rate of 18%. A minimum finance charge of \$1.00 will be charged on past due accounts. All prices are FOB Marietta, Georgia. All collection costs will be the expense of the customer.

Title To Merchandise Purchased By Customer Shall Be Retained By
GUHDO USA INC.
Until Paid In Full.

All prices and specifications are subject to change without notice.