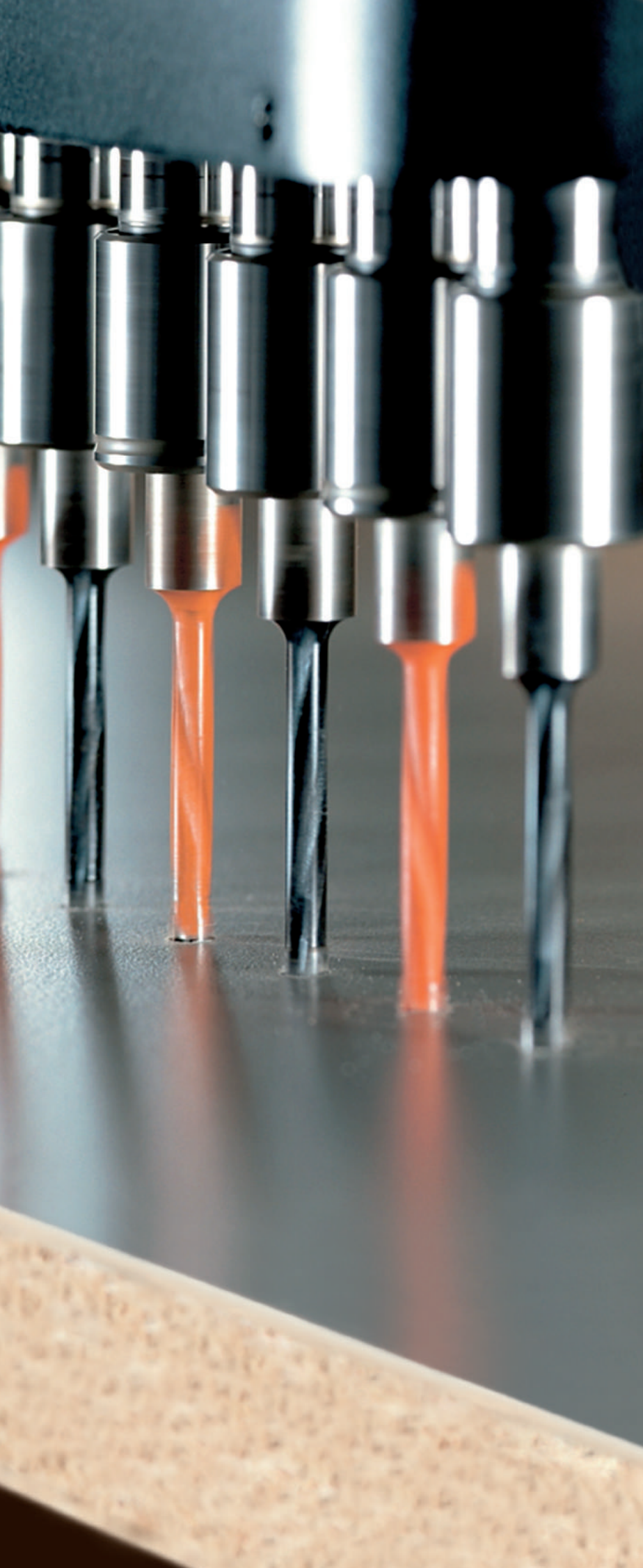


INDUSTRIAL DOWEL DRILLS



| PRODUCTS | PAGE |
|----------------------------------|----------------|
| Adaptors | 276~278 |
| XTreme Solid Carbide Boring Bits | 279~281 |
| XTreme Boring Bits | 282~283 |
| Solid Carbide Twist Drills | 284~285 |
| 2 Flute Dowel Drills | 286~287 |
| 4 Flute Dowel Drills | 288~290 |
| Dowel Drills with Countersink | 291 |
| Through Hole Dowel Drills | 292~293 |
| Countersinks | 294 |
| Hinge Boring Bits | 295~297 |
| Dowel Drills with Threaded Shank | 298~300 |



Adaptors



301

RH LH

| B mm | D mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 8 | 16 | M8 | 10 | 301.080.01 | 301.080.02 |
| 10 | 19,5 | M8 | 10 | 301.000.01 | 301.000.02 |

FOR USE ON THE FOLLOWING MACHINES:
Nottmeyer (older models).

Spare parts



990.006.00 991.062.00



302

RH LH

| B mm | D mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 8 | 16 | M10 | 10 | 302.080.01 | 302.080.02 |
| 10 | 19,5 | M10 | 10 | 302.000.01 | 302.000.02 |

FOR USE ON THE FOLLOWING MACHINES:
Ayen, Holzma, Knoevenagel, Mayer, Torwegge.

Spare parts



990.006.00 991.062.00



303

RH LH

| B mm | D mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 8 | 16 | M10/30° | 10 | 303.080.01 | 303.080.02 |
| 10 | 19,5 | M10/30° | 10 | 303.000.01 | 303.000.02 |

FOR USE ON THE FOLLOWING MACHINES:
Alberti (older models).
Balestrini, Bilek, Busellato (older models).
Schleicher, Vitap (older models).

Spare parts



990.006.00 991.062.00



304

RH LH

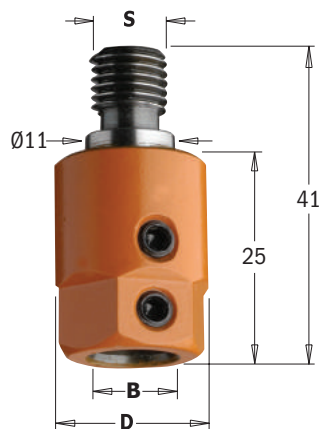
| B mm | D mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|------------|--------------|----------------------------------|---------------------------------|
| 8 | 16 | M8/20° 48' | 10 | 304.080.01 | 304.080.02 |
| 10 | 19,5 | M8/20° 48' | 10 | 304.000.01 | 304.000.02 |

FOR USE ON THE FOLLOWING MACHINES:
Balestrini, Bilek.

Spare parts



990.006.00 991.062.00



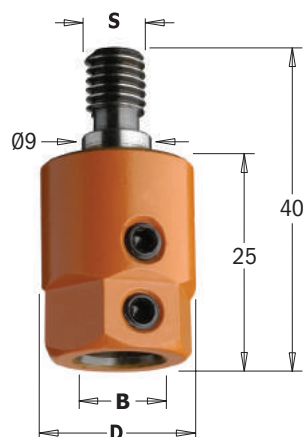
305

RH LH

| B mm | D mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 8 | 16 | M10/11 | 10 | 305.080.01 | 305.080.02 |
| 10 | 19,5 | M10/11 | 10 | 305.000.01 | 305.000.02 |

FOR USE ON THE FOLLOWING MACHINES:
 Biesse (older models).
 Masterwood (Zangheri & Boschetti).
 Morbidelli, Torwegge, Vitap (new design).
 Weeke.

Spare parts



358

RH LH

| B mm | D mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 8 | 16 | M8/9 | 10 | 358.080.01 | 358.080.02 |
| 10 | 19,5 | M8/9 | 10 | 358.000.01 | 358.000.02 |

FOR USE ON THE FOLLOWING MACHINES:
 Masterwood (Zangheri & Boschetti).
 Morbidelli, Nottmeyer (new design).

Spare parts



359

RH LH

| B mm | D mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 10 | 19,5 | M10 | 10 | 359.000.01 | 359.000.02 |

FOR USE ON THE FOLLOWING MACHINES:
 Scheer.

Spare parts



360.001

RH LH

| B mm | d mm | D mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 10 | 20 | 15 | 10 | 360.001.01 | 360.001.02 |

FOR USE ON THE FOLLOWING MACHINES:
 For Biesse machines with quick drill change attachment.

Spare parts





360.101

RH
LH

| B mm | d mm | D mm | PACK QTY. | ORDER NO. |
|------|------|------|-----------|--|
| 10 | 17,5 | 18 | 10 | Right-hand & Left-hand rotation 360.101.00 |

FOR USE ON THE FOLLOWING MACHINES:
Vitap.

Spare parts



360.201

RH
LH

| B mm | d mm | D mm | PACK QTY. | ORDER NO. |
|------|------|------|-----------|--|
| 10 | 19,5 | 20 | 10 | Right-hand & Left-hand rotation 360.201.00 |

FOR USE ON THE FOLLOWING MACHINES:
Morbidelli.

Spare parts



360.301

RH
LH

| B mm | d mm | D mm | PACK QTY. | ORDER NO. |
|------|------|------|-----------|--|
| 10 | 19,5 | 20 | 10 | Right-hand & Left-hand rotation 360.301.00 |

FOR USE ON THE FOLLOWING MACHINES:
Masterwood, Maggi, Griggio.

Spare parts



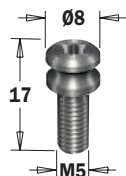
360.401

RH
LH

| B mm | d mm | D mm | PACK QTY. | ORDER NO. |
|------|------|------|-----------|--|
| 10 | 20 | 17 | 10 | Right-hand & Left-hand rotation 360.401.00 |

FOR USE ON THE FOLLOWING MACHINES:
Weeke.

Spare parts



990.088

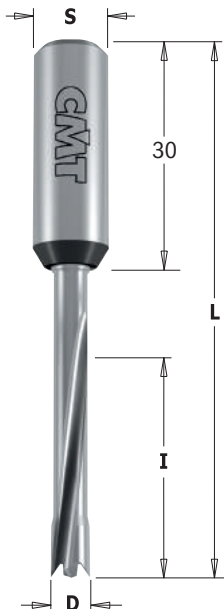
RH
LH

| DESCRIPTION | PACK QTY. | ORDER NO. |
|------------------------------------|-----------|--|
| Retaining screw for Weeke machines | 10 | Right-hand & Left-hand rotation 990.088.00 |

| LINE | XTREME FLAT | XTREME | XTREME | INDUSTRIAL |
|--------------------------|---|---|--|--|
| PERFORMANCE | SUPERIOR ★★★★★ | SUPERIOR ★★★★★ | EXCELLENT ★★★★★ | VERY GOOD ★★★ |
| BIT | | | | |
| DESCRIPTION | Designed for heavy duty drilling in Large-Scale Industrial Manufacturing ensuring high impact resistance and greater durability. | Designed for heavy duty drilling in Large-Scale Industrial Manufacturing ensuring high impact resistance and greater durability. | Designed for heavy-duty to medium-duty drilling in large-scale to medium-scale industrial manufacturing ensuring high impact resistance and greater durability. | Designed for medium-duty to light-duty drilling in medium-scale to small-scale industrial manufacturing ensuring rigorous impact resistance and good durability. |
| USER | LARGE-SCALE INDUSTRIAL MANUFACTURING | LARGE-SCALE INDUSTRIAL MANUFACTURING | LARGE-SCALE TO MEDIUM-SCALE INDUSTRIAL MANUFACTURING | MEDIUM-SCALE TO SMALL-SCALE INDUSTRIAL MANUFACTURING |
| RECOMMENDED USE | INDUSTRIAL PRODUCTION | INDUSTRIAL PRODUCTION | INDUSTRIAL/REMODELER | REMODELER |
| MATERIALS | Ideal for chipboard, MDF, HDF and laminates. Nonprotruding center-point and spurs make this tool perfect for low-thickness panels. | Ideal for chipboard, MDF, HDF and laminates. | Excellent for both hard and soft wood. Great for chipboard, MDF, HDF and laminates. | Excellent for both hard and soft wood. Good for chipboard, MDF, and laminates. |
| SHARPENING & MAINTENANCE | Flat edges with reinforced spurs allow perfect finishing and prolonged drilling. Xtreme Flat Sharpening | Specially designed reinforced spurs allow for impeccable finishing during operations involving high-speed cutting feed. Xtreme Sharpening | Specially designed reinforced spurs allow for impeccable finishing during operations involving high-speed cutting feed. Xtreme Sharpening | Standard design with negatively ground spurs providing good quality finishing without chipping. Negatively Ground Spurs |
| CARBIDE | INDUSTRIAL CHROMIUM MICROGRAIN CARBIDE The premium quality carbide produces clean bores with no rough edges and maintains a balanced center point. In addition to its safety features, Chromium Micrograin Carbide guarantees exceptional resistance to fatigue and abrasion and allows for an infinite number of resharpenings. | INDUSTRIAL CHROMIUM MICROGRAIN CARBIDE The special chromium enhanced carbide produces clean bores with no rough edges and maintains a balanced center point. In addition to its safety features, Chromium Micrograin Carbide guarantees exceptional resistance to fatigue and abrasion and allows for an infinite number of resharpenings. | INDUSTRIAL SINTERHIP HI-DENSITY CARBIDE The unique tip is made of high quality carbide enhanced via Sinterhip (hot isostatic pressing). This process guarantees long lasting performance and exceptionally clean bores. | INDUSTRIAL GRADE CARBIDE Fine and medium grain carbide grade guarantee reliable prolonged use. |
| COATING | SOLID TUNGSTEN CARBIDE | SOLID TUNGSTEN CARBIDE | C.M.T'S P.T.F.E COATING provides a non-stick surface preventing resin, glue or sludge residue accumulation on the bit body. Baked at 420°, this unique industrial material is specifically designed to fit woodworking tool requirements. | C.M.T'S P.T.F.E COATING provides a non-stick surface preventing resin, glue or sludge residue accumulation on the bit body. Baked at 420°, this unique industrial material is specifically designed to fit woodworking tool requirements. |
| PRICE RANGE | HIGH | HIGH | MEDIUM/HIGH | MEDIUM |

Solid Carbide Dowel Drills

new



311.71/72

XTREME
FLAT SHARPENING

HWM LONG LIFE Z2 V2 RH LH

| D mm | I mm | L mm | S mm | PACK Qty. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 30 | 70 | 10x30 | 50 | 311.050.71 | 311.050.72 |
| 8 | 30 | 70 | 10x30 | 50 | 311.080.71 | 311.080.72 |

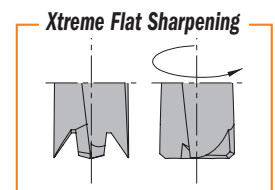
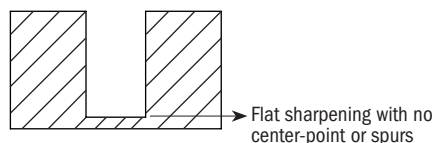
TECHNICAL DETAILS:

- Premium quality super strength steel for improved resistance and durability
- Premium quality HWM spiral portion
- 2 cutting edges [Z2] + 2 curved ground spurs [V2]
- 2 spiral flutes
- Parallel shank with driving flat and adjustable screw length
- Recommended feed speed 1÷ 4m/minute -RPM 6000

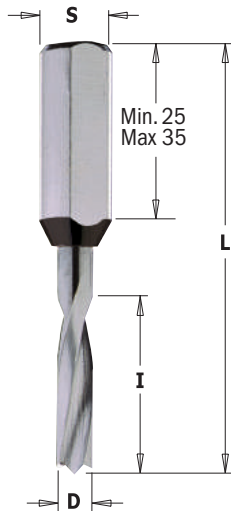
APPLICATION:

ideal for use with chipboard, MDF, HDF and laminates.
Best for boring holes in low thickness panels - no center-point or spurs.
For use with chucks and boring adaptors on boring machines

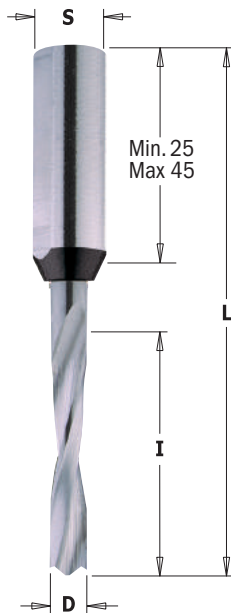
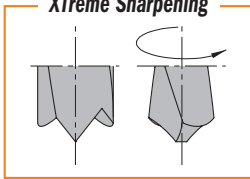
| Spare parts | Optional |
|-------------|------------|
| 990.003.00 | 990.088.00 |



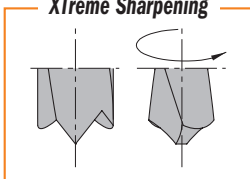
CMT's new high quality dowel drills guarantee excellent performance and extra-long life!



XTreme Sharpening



XTreme Sharpening



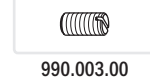
310.21/22 XTREME

HWM LONG LIFE Z2 V2 RH LH

| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|-------------|------|------|-------|-----------|-------------------------------|------------------------------|
| 1,3 | 5 | 57,5 | 10x30 | 50 | 310.013.20* | |
| 2 | 12 | 57,5 | 10x27 | 50 | 310.020.21 | 310.020.22 |
| 3 | 9 | 57,5 | 10x35 | 50 | 310.530.21 | 310.530.22 |
| 3 | 18 | 57,5 | 10x25 | 50 | 310.030.21 | 310.030.22 |
| 4 | 20 | 57,5 | 10x25 | 50 | 310.040.21 | 310.040.22 |
| 5 | 22 | 57,5 | 10x27 | 50 | 310.050.21 | 310.050.22 |
| 6 | 22 | 57,5 | 10x27 | 50 | 310.060.21 | 310.060.22 |
| 6,35 (1/4") | 22 | 57,5 | 10x27 | 50 | 310.064.21 | 310.064.22 |
| 8 | 22 | 57,5 | 10x25 | 50 | 310.080.21 | 310.080.22 |
| 10 | 22 | 57,5 | 10x25 | 50 | 310.100.21 | 310.100.22 |

* Boring bit for panel preboring. Suitable for both right-hand and left-hand rotation.

Spare parts



Optional



311.21/22 XTREME

HWM LONG LIFE Z2 V2 RH LH

| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|----------------|------|------|-------|-----------|-------------------------------|------------------------------|
| 1,3 | 5 | 70 | 10x45 | 50 | 311.013.20* | |
| 2 | 12 | 70 | 10x40 | 50 | 311.020.21 | 311.020.22 |
| 3 | 18 | 70 | 10x40 | 50 | 311.030.21 | 311.030.22 |
| new 3,5 | 18 | 70 | 10x40 | 50 | 311.035.21 | 311.035.22 |
| 4 | 27 | 70 | 10x28 | 50 | 311.040.21 | 311.040.22 |
| 5 | 30 | 70 | 10x28 | 50 | 311.050.21 | 311.050.22 |
| 6 | 30 | 70 | 10x27 | 50 | 311.060.21 | 311.060.22 |
| 6,35 (1/4") | 30 | 70 | 10x30 | 50 | 311.064.21 | 311.064.22 |
| 8 | 35 | 70 | 10x25 | 50 | 311.080.21 | 311.080.22 |
| 10 | 35 | 70 | 10x25 | 50 | 311.100.21 | 311.100.22 |

* Boring bit for panel preboring. Suitable for both right-hand and left-hand rotation.

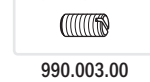
TECHNICAL DETAILS:

- Premium quality super-strength steel.
- HWM spiral portion with centre point.
- 2 cutting edges [Z2].
- 2 spiral flutes.
- 2 curved, negatively ground spurs [V2].
- Parallel shank with driving flat and adjustable screw length.

APPLICATION:

used on boring machines separately or with chucks for drilling blind holes in solid wood, wood composites, plastic and laminated materials.

Spare parts



Optional



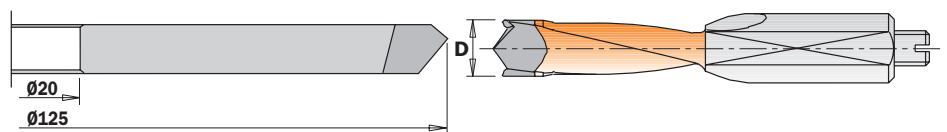
Perfect for all materials and long-lasting performance!

Grinding Wheels for XTreme Sharpening

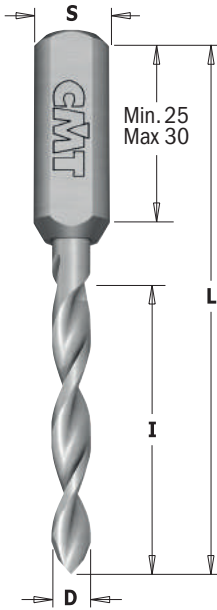


01.02

| D mm | DESCRIPTION | DIMENSION mm | B mm | PACK QTY. | ORDER NO. |
|---------|------------------------------|--------------|------|-----------|------------|
| Ø3 a 7 | Grinding wheel for reshaping | Ø125x5,5 | Ø20 | 1 | 01.02.0316 |
| Ø8 a 10 | Grinding wheel for reshaping | Ø125x7 | Ø20 | 1 | 01.02.0317 |



Solid Carbide Dowel Drills for Through Holes



314.21/22 XTREME

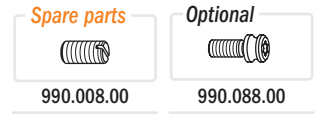


| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|------|-------|-----------|-------------------------------|------------------------------|
| 3 | 27 | 70 | 10x30 | 50 | 314.030.21 | 314.030.22 |
| 4 | 35 | 70 | 10x26 | 50 | 314.040.21 | 314.040.22 |
| 5 | 35 | 70 | 10x26 | 50 | 314.050.21 | 314.050.22 |
| 6 | 35 | 70 | 10x26 | 50 | 314.060.21 | 314.060.22 |
| 8 | 35 | 70 | 10x26 | 50 | 314.080.21 | 314.080.22 |
| 10 | 35 | 70 | 10x27 | 50 | 314.100.21 | 314.100.22 |

For panels with maximum 20-30mm in thickness

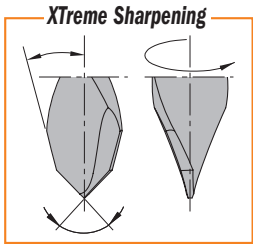
TECHNICAL DETAILS:

- Premium quality super-strength steel.
- HWM spiral portion with centre point.
- 2 precision ground cutting edges [Z2].
- Double angle.
- 2 spiral flutes.
- Parallel shank with driving flat and adjustable screw length.

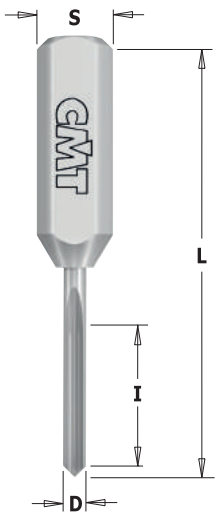


APPLICATION:

used on boring machines and dowel drilling devices. Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.



Solid Carbide Dowel Drills



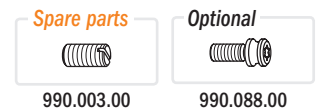
382 XTREME



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand & Left-hand rotation |
|------|------|------|---------|-----------|---|
| 2 | 12 | 57,5 | 10x30 | 50 | 382.2057 |
| 2 | 12 | 70 | 10x42,5 | 50 | 382.2070 |
| 2,5 | 16 | 57,5 | 10x24 | 50 | 382.2557 |
| 2,5 | 16 | 70 | 10x35 | 50 | 382.2570 |
| 3 | 15 | 57,5 | 10x26 | 50 | 382.3057 |
| 3 | 25 | 70 | 10x26 | 50 | 382.3070 |
| 3,5 | 18 | 57,5 | 10x24 | 50 | 382.3557 |
| 3,5 | 18 | 70 | 10x36 | 50 | 382.3570 |
| 5 | 25 | 57,5 | 10x25 | 50 | 382.5057 |
| 5 | 35 | 70 | 10x25 | 50 | 382.5070 |

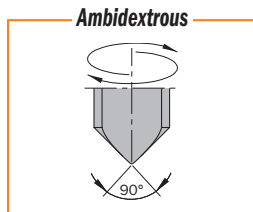
TECHNICAL DETAILS:

- Premium quality HWM.
- Cutting head with precision balanced centre point.
- 1 cutting edge [Z1].
- Parallel shank with driving flat and length adjusting screw.



APPLICATION:

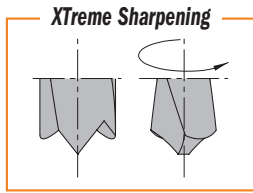
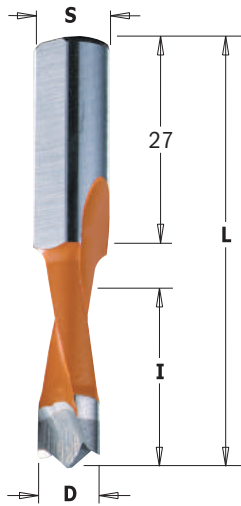
for drilling blind holes on solid wood, wood composites, plastic and laminated materials. For use on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.



SECURITY TIPS:

These boring bits require more power compared to tradition dowel drills.
The number of boring bits to be used in a single drilling unit depends on the machine power.

Dowel Drills



310.41/42 XTREME



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|------|-------|-----------|-------------------------------|------------------------------|
| 5 | 27 | 57,5 | 10x27 | 50 | 310.050.41 | 310.050.42 |
| 6 | 27 | 57,5 | 10x27 | 50 | 310.060.41 | 310.060.42 |
| 7 | 27 | 57,5 | 10x27 | 50 | 310.070.41 | 310.070.42 |
| 8 | 27 | 57,5 | 10x27 | 50 | 310.080.41 | 310.080.42 |
| 9 | 27 | 57,5 | 10x27 | 50 | 310.090.41 | 310.090.42 |
| 10 | 27 | 57,5 | 10x27 | 50 | 310.100.41 | 310.100.42 |

TECHNICAL DETAILS:

- Premium quality super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- Extra-fine micrograin carbide spiral portion with centre point.
- 2 cutting edges [Z2].
- 2 spiral flutes.
- 2 curved, negatively ground spurs [V2].
- Parallel shank with driving flat and adjustable screw length.

Spare parts



990.003.00

Optional

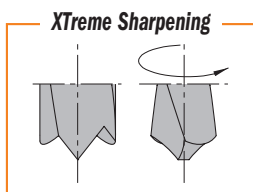
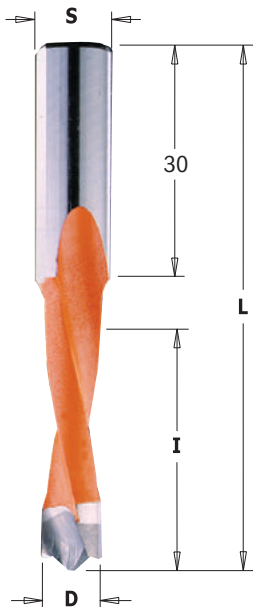


990.088.00

APPLICATION:

used on boring machines separately or with chucks for drilling blind holes in solid wood, wood composites, plastic and laminated materials.

Dowel Drills



311.41/42 XTREME



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|------|-------|-----------|-------------------------------|------------------------------|
| 5 | 35 | 70 | 10x30 | 50 | 311.050.41 | 311.050.42 |
| 6 | 35 | 70 | 10x30 | 50 | 311.060.41 | 311.060.42 |
| 7 | 35 | 70 | 10x30 | 50 | 311.070.41 | 311.070.42 |
| 8 | 35 | 70 | 10x30 | 50 | 311.080.41 | 311.080.42 |
| 9 | 35 | 70 | 10x30 | 50 | 311.090.41 | 311.090.42 |
| 10 | 35 | 70 | 10x30 | 50 | 311.100.41 | 311.100.42 |

TECHNICAL DETAILS:

- Premium quality super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- Extra-fine micrograin carbide spiral portion with centre point.
- 2 cutting edges [Z2].
- 2 spiral flutes.
- 2 curved, negatively ground spurs [V2].
- Parallel shank with driving flat and adjustable screw length.

Spare parts



990.003.00

Optional



990.088.00

APPLICATION:

used on boring machines separately or with chucks for drilling blind holes in solid wood, wood composites, plastic and laminated materials.

Perfect for all materials and long-lasting performance!

CMT announces the new series of solid carbide boring bits, now available from their extensive industrial line. These bits are entirely made of premium quality super micrograin carbide from Ceratizit in Luxemburg.

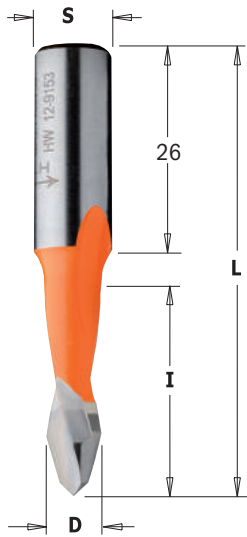
The entire series offers several design features:

- the unique tip has curved, negatively ground spurs to produce exceptionally clear bores with no rough edges. Centre point balanced;
- the cylindrical head is bigger than traditional tips and is extremely resistant to prolonged use.

It lasts longer between sharpenings;

- the plunge edge runs all the way to the centre of the bit to reduce drilling resistance and increase production speed;
- the solid carbide construction guarantees an almost infinite number of resharpenings, and since it is a solid unit of carbide, it offers extra safety features;
- ideal for hardwood and difficult composites such as particle boards, MDF and veneered wood.
- excellent performance on high-speed boring units and CNC routers.

Dowel Drills for Through Holes



313.41/42

XTREME

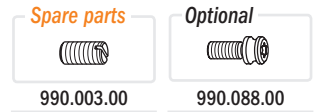


| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 27 | 57,5 | 10x26 | 50 | 313.050.41 | 313.050.42 |
| 8 | 27 | 57,5 | 10x26 | 50 | 313.080.41 | 313.080.42 |

For panels with maximum 20mm in thickness

TECHNICAL DETAILS:

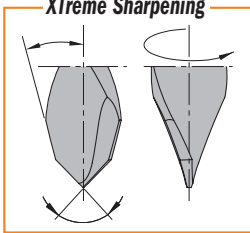
- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- Extra-fine micrograin carbide spiral portion with centre point.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- Double angle.
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.



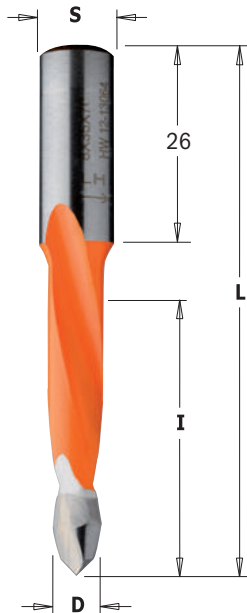
APPLICATION:

used on boring machines and dowel drilling devices. Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.

XTreme Sharpening



Dowel Drills for Through Holes



314.41/42

XTREME

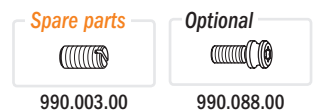


| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 35 | 70 | 10x26 | 50 | 314.050.41 | 314.050.42 |
| 6 | 35 | 70 | 10x26 | 50 | 314.060.41 | 314.060.42 |
| 7 | 35 | 70 | 10x26 | 50 | 314.070.41 | 314.070.42 |
| 8 | 35 | 70 | 10x26 | 50 | 314.080.41 | 314.080.42 |
| 10 | 35 | 70 | 10x26 | 50 | 314.100.41 | 314.100.42 |

For panels with maximum 30mm in thickness

TECHNICAL DETAILS:

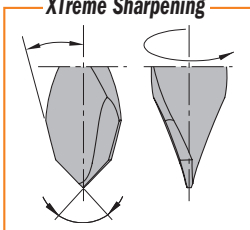
- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- Extra-fine micrograin carbide spiral portion with centre point.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- Double angle.
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.



APPLICATION:

used on boring machines and dowel drilling devices. Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.

XTreme Sharpening



Perfect for all materials and long-lasting performance!

CMT announces the new series of solid carbide boring bits, now available from their extensive industrial line. These bits are entirely made of premium quality super micrograin carbide from Ceratizit in Luxemburg.

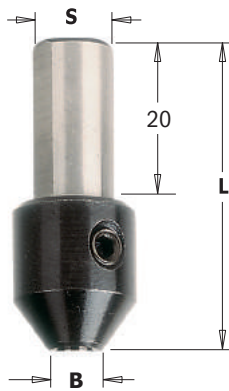
The entire series offers several design features:

- the unique tip has curved, negatively ground spurs to produce exceptionally clear bores with no rough edges. Centre point balanced;
- the cylindrical head is bigger than traditional tips and is extremely resistant to prolonged use.

It lasts longer between sharpenings;

- the plunge edge runs all the way to the centre of the bit to reduce drilling resistance and increase production speed;
- the solid carbide construction guarantees an almost infinite number of resharpenings, and since it is a solid unit of carbide, it offers extra safety features;
- ideal for hardwood and difficult composites such as particle boards, MDF and veneered wood.
- excellent performance on high-speed boring units and CNC routers.

Adaptors for Twist Drills



364

| B mm | L mm | S mm | PACK QTY. | ORDER NO. |
|---------|---------|---------|--------------|-------------------|
| 2 | 38 | 10x20 | 10 | 364.020.00 |
| 2,5 | 38 | 10x20 | 10 | 364.025.00 |
| 3 | 38 | 10x20 | 10 | 364.030.00 |
| 3,2 | 38 | 10x20 | 10 | 364.032.00 |
| 3,5 | 38 | 10x20 | 10 | 364.035.00 |
| 4 | 38 | 10x20 | 10 | 364.040.00 |
| 4,5 | 38 | 10x20 | 10 | 364.045.00 |
| 5 | 38 | 10x20 | 10 | 364.050.00 |

For use with the following items: 363 HWM

TECHNICAL DETAILS:

- Super-strength steel.
- Quick and secure assembly on twist drills.
- Precision relief.
- Parallel shank with driving flat.

APPLICATION:

for use with twist drills with common shank and bushing diameter.
Used on boring machines equipped with adaptor chucks.

Spare parts



990.001.00 991.062.00

Bushings for Twist Drills



365

| B mm | L mm | S mm | PACK QTY. | ORDER NO. |
|---------|---------|---------|--------------|-------------------|
| 2 | 23 | 10 | 50 | 365.020.00 |
| 2,5 | 23 | 10 | 50 | 365.025.00 |
| 3 | 23 | 10 | 50 | 365.030.00 |
| 3,2 | 23 | 10 | 50 | 365.032.00 |
| 3,5 | 23 | 10 | 50 | 365.035.00 |
| 4 | 23 | 10 | 50 | 365.040.00 |
| 4,5 | 23 | 10 | 50 | 365.045.00 |
| 5 | 23 | 10 | 50 | 365.050.00 |
| 6 | 23 | 10 | 50 | 365.060.00 |

For use with the following items: 363 HWM

TECHNICAL DETAILS:

- Super-strength steel.
- Shank with driving flat.
- Axial cuttings for cylindrical drill clamps.

APPLICATION:

used with spiral boring bits with shank diameters equal to the bushing diameter.
Used on boring machines equipped with adaptors.

Assembly Illustration



364
Adaptors

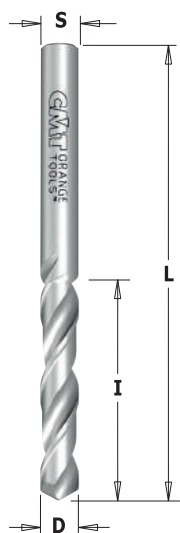
363
Twist drills

302-303-305
358-359-360
Adaptors

365
Bushings

363
Twist drills

Solid Carbide Twist Drills "V" Point Sharpening



"V" Point
120°

363

| S=D mm | I mm | L mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|-----------|---------|---------|--------------|----------------------------------|---------------------------------|
| 2 | 25 | 50 | 50 | 363.020.11 | 363.020.12 |
| 2,5 | 27 | 55 | 50 | 363.025.11 | 363.025.12 |
| 3 | 27 | 55 | 50 | 363.030.11 | 363.030.12 |
| 3,2 | 27 | 55 | 50 | 363.032.11 | 363.032.12 |
| 3,5 | 27 | 55 | 50 | 363.035.11 | 363.035.12 |
| 4 | 27 | 55 | 50 | 363.040.11 | 363.040.12 |
| 4,5 | 28 | 60 | 50 | 363.045.11 | 363.045.12 |
| 5 | 28 | 60 | 50 | 363.050.11 | 363.050.12 |

For use with the following items: 364-365

TECHNICAL DETAILS:

- Premium quality HWM.
- 2 precision ground cutting edges [Z2].
- 2 spiral flutes.
- Common shank and drilling diameter (S=D).

APPLICATION:

used in adaptor bushings.

Solid Carbide Twist Drills "V" Point 60° Sharpening



"V" Point
60°

363

| S=D mm | I mm | L mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|-----------|---------|---------|--------------|----------------------------------|---------------------------------|
| 2,5 | 27 | 55 | 50 | 363.025.41 | 363.025.42 |
| 3 | 27 | 55 | 50 | 363.030.41 | 363.030.42 |
| 3,5 | 27 | 55 | 50 | 363.035.41 | 363.035.42 |
| 4 | 27 | 55 | 50 | 363.040.41 | 363.040.42 |

For use with the following items: 364-365

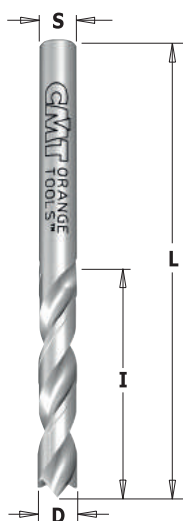
TECHNICAL DETAILS:

- Premium quality HWM.
- 2 precision ground cutting edges [Z2].
- 2 spiral flutes.
- Common shank and drilling diameter (S=D).

APPLICATION:

used in adaptor bushings.

Solid Carbide Twist Drills Negatively Ground Spurs Sharpening



X-Treme
Sharpening

363

| S=D mm | I mm | L mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|-----------|---------|---------|--------------|----------------------------------|---------------------------------|
| 2,5 | 27 | 55 | 50 | 363.025.21 | 363.025.22 |
| 3 | 27 | 55 | 50 | 363.030.21 | 363.030.22 |
| 4 | 27 | 55 | 50 | 363.040.21 | 363.040.22 |
| 5 | 28 | 60 | 50 | 363.050.21 | 363.050.22 |

For use with the following items: 364-365

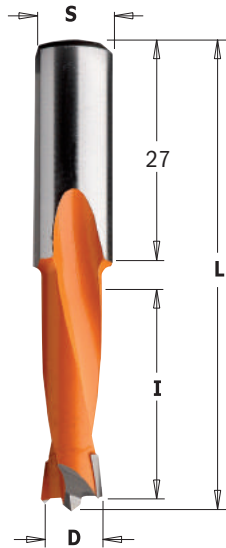
TECHNICAL DETAILS:

- Premium quality HWM.
- 2 precision ground cutting edges [Z2].
- 2 spiral flutes.
- Common shank and drilling diameter (S=D).

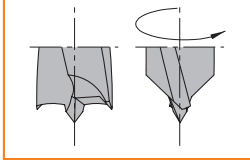
APPLICATION:

used in adaptor bushings.

2 Flute Dowel Drills



Negatively Ground Spurs



310



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 4 | 27 | 57,5 | 10x27 | 50 | 310.040.11 | 310.040.12 |
| 4,5 | 27 | 57,5 | 10x27 | 50 | 310.045.11 | 310.045.12 |
| 4,76 | 27 | 57,5 | 10x27 | 50 | 310.047.11 | 310.047.12 |
| 5 | 27 | 57,5 | 10x27 | 50 | 310.050.11 | 310.050.12 |
| 5,1 | 27 | 57,5 | 10x27 | 50 | 310.051.11 | 310.051.12 |
| 5,2 | 27 | 57,5 | 10x27 | 50 | 310.052.11 | 310.052.12 |
| 5,55 | 27 | 57,5 | 10x27 | 50 | 310.055.11 | 310.055.12 |
| 6 | 27 | 57,5 | 10x27 | 50 | 310.060.11 | 310.060.12 |
| 6,35 | 27 | 57,5 | 10x27 | 50 | 310.064.11 | 310.064.12 |
| 6,5 | 27 | 57,5 | 10x27 | 50 | 310.065.11 | 310.065.12 |
| 7 | 27 | 57,5 | 10x27 | 50 | 310.070.11 | 310.070.12 |
| 8 | 27 | 57,5 | 10x27 | 50 | 310.080.11 | 310.080.12 |
| 8,2 | 27 | 57,5 | 10x27 | 50 | 310.082.11 | 310.082.12 |
| 9 | 27 | 57,5 | 10x27 | 50 | 310.090.11 | 310.090.12 |
| 9,52 | 27 | 57,5 | 10x27 | 50 | 310.095.11 | 310.095.12 |
| 10 | 27 | 57,5 | 10x27 | 50 | 310.100.11 | 310.100.12 |
| 11 | 27 | 57,5 | 10x27 | 10 | 310.110.11 | 310.110.12 |
| 12 | 27 | 57,5 | 10x27 | 10 | 310.120.11 | 310.120.12 |
| 12,7 | 27 | 57,5 | 10x27 | 10 | 310.127.11 | 310.127.12 |
| 13 | 27 | 57,5 | 10x27 | 10 | 310.130.11 | 310.130.12 |
| 14 | 27 | 57,5 | 10x27 | 10 | 310.140.11 | 310.140.12 |
| 15 | 27 | 57,5 | 10x27 | 10 | 310.150.11 | 310.150.12 |
| 16 | 27 | 57,5 | 10x27 | 10 | 310.160.11 | 310.160.12 |

Spare parts



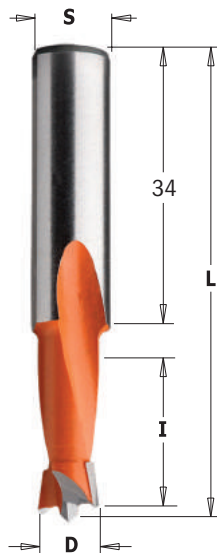
990.003.00

Optional

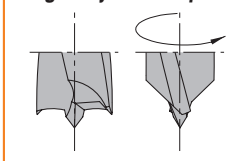


990.088.00

2 Flute Dowel Drills



Negatively Ground Spurs



361



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 18 | 57,5 | 10x34 | 50 | 361.050.11 | 361.050.12 |
| 6 | 18 | 57,5 | 10x34 | 50 | 361.060.11 | 361.060.12 |
| 7 | 18 | 57,5 | 10x34 | 50 | 361.070.11 | 361.070.12 |
| 8 | 18 | 57,5 | 10x34 | 50 | 361.080.11 | 361.080.12 |
| 10 | 18 | 57,5 | 10x34 | 50 | 361.100.11 | 361.100.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 negatively ground spurs [V2]
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

Spare parts



990.003.00

Optional



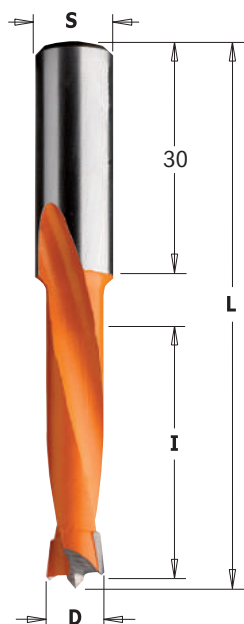
990.088.00

APPLICATION:

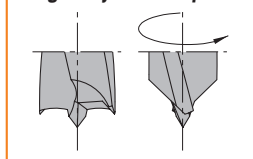
used on boring machines equipped with adaptors or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

2 Flute Dowel Drills

HW Z2 V2 RH LH



Negatively Ground Spurs



311

| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 4 | 35 | 70 | 10x30 | 50 | 311.040.11 | 311.040.12 |
| 4,5 | 35 | 70 | 10x30 | 50 | 311.045.11 | 311.045.12 |
| 4,76 | 35 | 70 | 10x30 | 50 | 311.047.11 | 311.047.12 |
| 5 | 35 | 70 | 10x30 | 50 | 311.050.11 | 311.050.12 |
| 5,1 | 35 | 70 | 10x30 | 50 | 311.051.11 | 311.051.12 |
| 5,2 | 35 | 70 | 10x30 | 50 | 311.052.11 | 311.052.12 |
| 5,55 | 35 | 70 | 10x30 | 50 | 311.055.11 | 311.055.12 |
| 6 | 35 | 70 | 10x30 | 50 | 311.060.11 | 311.060.12 |
| 6,35 | 35 | 70 | 10x30 | 50 | 311.064.11 | 311.064.12 |
| 6,5 | 35 | 70 | 10x30 | 50 | 311.065.11 | 311.065.12 |
| 7 | 35 | 70 | 10x30 | 50 | 311.070.11 | 311.070.12 |
| 8 | 35 | 70 | 10x30 | 50 | 311.080.11 | 311.080.12 |
| 8,2 | 35 | 70 | 10x30 | 50 | 311.082.11 | 311.082.12 |
| 9 | 35 | 70 | 10x30 | 50 | 311.090.11 | 311.090.12 |
| 9,52 | 35 | 70 | 10x30 | 50 | 311.095.11 | 311.095.12 |
| 10 | 35 | 70 | 10x30 | 50 | 311.100.11 | 311.100.12 |
| 11 | 35 | 70 | 10x30 | 10 | 311.110.11 | 311.110.12 |
| 11,1 | 35 | 70 | 10x30 | 10 | 311.111.11 | 311.111.12 |
| 12 | 35 | 70 | 10x30 | 10 | 311.120.11 | 311.120.12 |
| 12,7 | 35 | 70 | 10x30 | 10 | 311.127.11 | 311.127.12 |
| 13 | 35 | 70 | 10x30 | 10 | 311.130.11 | 311.130.12 |
| 14 | 35 | 70 | 10x30 | 10 | 311.140.11 | 311.140.12 |
| 15 | 35 | 70 | 10x30 | 10 | 311.150.11 | 311.150.12 |
| 16 | 35 | 70 | 10x30 | 10 | 311.160.11 | 311.160.12 |

Spare parts



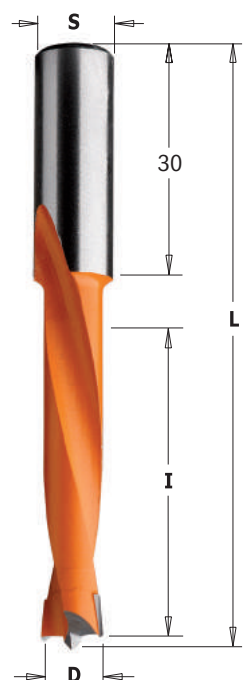
990.003.00

Optional

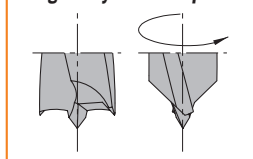


990.088.00

2 Flute Dowel Drills



Negatively Ground Spurs



362

| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 44 | 77 | 10x30 | 50 | 362.050.11 | 362.050.12 |
| 6 | 44 | 77 | 10x30 | 50 | 362.060.11 | 362.060.12 |
| 7 | 44 | 77 | 10x30 | 50 | 362.070.11 | 362.070.12 |
| 8 | 44 | 77 | 10x30 | 50 | 362.080.11 | 362.080.12 |
| 10 | 44 | 77 | 10x30 | 50 | 362.100.11 | 362.100.12 |
| 12 | 44 | 77 | 10x30 | 10 | 362.120.11 | 362.120.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 negatively ground spurs [V2].
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

APPLICATION:

used on boring machines equipped with adaptors or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

Spare parts



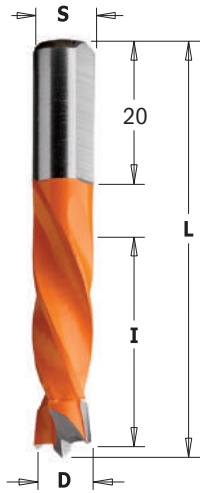
990.003.00

Optional

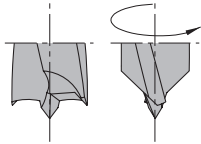


990.088.00

4 Flute Dowel Drills



Negatively Ground Spurs



306



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| • 3 | 18 | 55,5 | 8x20 | 50 | 306.030.21 | |
| 5 | 30 | 55,5 | 8x20 | 50 | 306.050.11 | 306.050.12 |
| 5,55 | 30 | 55,5 | 8x20 | 50 | 306.055.11 | 306.055.12 |
| 6 | 30 | 55,5 | 8x20 | 50 | 306.060.11 | 306.060.12 |
| 6,35 | 30 | 55,5 | 8x20 | 50 | 306.064.11 | 306.064.12 |
| 7 | 30 | 55,5 | 8x20 | 50 | 306.070.11 | 306.070.12 |
| 8 | 30 | 55,5 | 8x20 | 50 | 306.080.11 | 306.080.12 |
| 9 | 30 | 55,5 | 8x20 | 50 | 306.090.11 | 306.090.12 |
| 10 | 30 | 55,5 | 8x20 | 50 | 306.100.11 | 306.100.12 |
| 12 | 30 | 55,5 | 8x20 | 50 | 306.120.11 | 306.120.12 |

• HWM

Spare parts



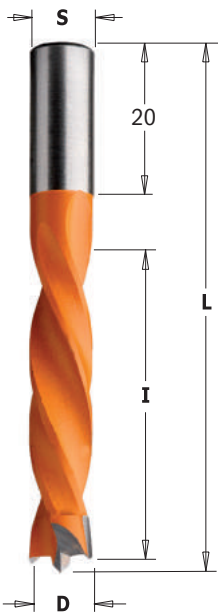
990.003.00

Optional

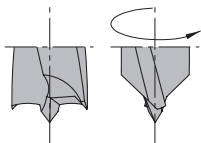


990.088.00

4 Flute Dowel Drills



Negatively Ground Spurs



307



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 40 | 67 | 8x20 | 50 | 307.050.11 | 307.050.12 |
| 5,55 | 40 | 67 | 8x20 | 50 | 307.055.11 | 307.055.12 |
| 6 | 40 | 67 | 8x20 | 50 | 307.060.11 | 307.060.12 |
| 6,35 | 40 | 67 | 8x20 | 50 | 307.064.11 | 307.064.12 |
| 7 | 40 | 67 | 8x20 | 50 | 307.070.11 | 307.070.12 |
| 8 | 40 | 67 | 8x20 | 50 | 307.080.11 | 307.080.12 |
| 9 | 40 | 67 | 8x20 | 50 | 307.090.11 | 307.090.12 |
| 9,52 | 40 | 67 | 8x20 | 50 | 307.095.11 | 307.095.12 |
| 10 | 40 | 67 | 8x20 | 50 | 307.100.11 | 307.100.12 |
| 12 | 40 | 67 | 8x20 | 10 | 307.120.11 | 307.120.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- Negatively ground spurs [V2].
- 4 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

Spare parts



990.003.00

Optional

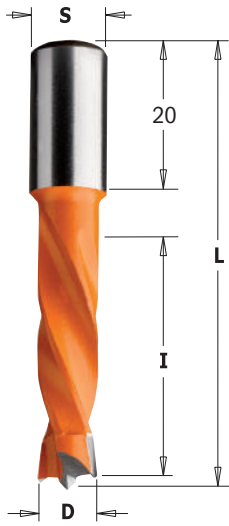


990.088.00

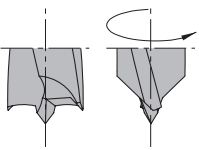
APPLICATION:

used on boring machines equipped with adaptors or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

4 Flute Dowel Drills



Negatively Ground Spurs



308



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 4 | 26 | 57,5 | 10x20 | 50 | 308.040.11 | 308.040.12 |
| 5 | 30 | 57,5 | 10x20 | 50 | 308.050.11 | 308.050.12 |
| 6 | 30 | 57,5 | 10x20 | 50 | 308.060.11 | 308.060.12 |
| 6,35 | 30 | 57,5 | 10x20 | 50 | 308.064.11 | 308.064.12 |
| 7 | 30 | 57,5 | 10x20 | 50 | 308.070.11 | 308.070.12 |
| 8 | 30 | 57,5 | 10x20 | 50 | 308.080.11 | 308.080.12 |
| 9 | 30 | 57,5 | 10x20 | 50 | 308.090.11 | 308.090.12 |
| 9,52 | 30 | 57,5 | 10x20 | 50 | 308.095.11 | 308.095.12 |
| 10 | 30 | 57,5 | 10x20 | 50 | 308.100.11 | 308.100.12 |
| 11 | 30 | 57,5 | 10x20 | 10 | 308.110.11 | 308.110.12 |
| 12 | 30 | 57,5 | 10x20 | 10 | 308.120.11 | 308.120.12 |
| 12,7 | 30 | 57,5 | 10x20 | 10 | 308.127.11 | 308.127.12 |
| 13 | 30 | 57,5 | 10x20 | 10 | 308.130.11 | 308.130.12 |
| 14 | 30 | 57,5 | 10x20 | 10 | 308.140.11 | 308.140.12 |
| 15 | 30 | 57,5 | 10x20 | 10 | 308.150.11 | 308.150.12 |
| 16 | 30 | 57,5 | 10x20 | 10 | 308.160.11 | 308.160.12 |

Spare parts



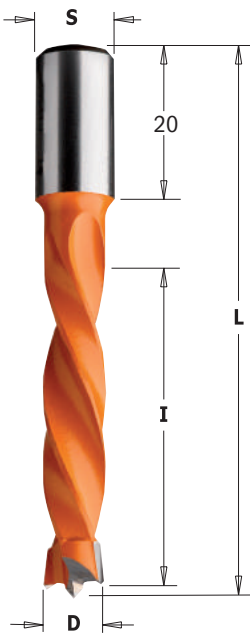
990.003.00

Optional

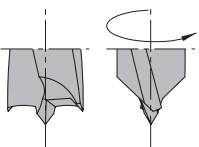


990.088.00

4 Flute Dowel Drills



Negatively Ground Spurs



309



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 4 | 43 | 70 | 10x20 | 50 | 309.040.11 | 309.040.12 |
| 5 | 43 | 70 | 10x20 | 50 | 309.050.11 | 309.050.12 |
| 6 | 43 | 70 | 10x20 | 50 | 309.060.11 | 309.060.12 |
| 6,35 | 43 | 70 | 10x20 | 50 | 309.064.11 | 309.064.12 |
| 7 | 43 | 70 | 10x20 | 50 | 309.070.11 | 309.070.12 |
| 7,5 | 43 | 70 | 10x20 | 50 | 309.075.11 | 309.075.12 |
| 8 | 43 | 70 | 10x20 | 50 | 309.080.11 | 309.080.12 |
| 9 | 43 | 70 | 10x20 | 50 | 309.090.11 | 309.090.12 |
| 9,52 | 43 | 70 | 10x20 | 50 | 309.095.11 | 309.095.12 |
| 10 | 43 | 70 | 10x20 | 50 | 309.100.11 | 309.100.12 |
| 11 | 43 | 70 | 10x20 | 10 | 309.110.11 | 309.110.12 |
| 12 | 43 | 70 | 10x20 | 10 | 309.120.11 | 309.120.12 |
| 12,7 | 43 | 70 | 10x20 | 10 | 309.127.11 | 309.127.12 |
| 13 | 43 | 70 | 10x20 | 10 | 309.130.11 | 309.130.12 |
| 14 | 43 | 70 | 10x20 | 10 | 309.140.11 | 309.140.12 |
| 15 | 43 | 70 | 10x20 | 10 | 309.150.11 | 309.150.12 |
| 16 | 43 | 70 | 10x20 | 10 | 309.160.11 | 309.160.12 |

Spare parts



990.003.00

Optional



990.088.00

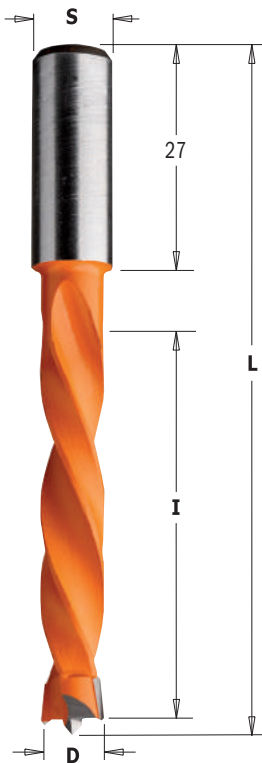
TECHNICAL DETAILS:

- Super-strength steel.
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- Negatively ground spurs [V2].
- 4 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

APPLICATION:

used on boring machines equipped with adaptors or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

4 Flute Dowel Drills



373



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 50 | 85 | 10x27 | 50 | 373.050.11 | 373.050.12 |
| 6 | 50 | 85 | 10x27 | 50 | 373.060.11 | 373.060.12 |
| 7 | 50 | 85 | 10x27 | 50 | 373.070.11 | 373.070.12 |
| 8 | 50 | 85 | 10x27 | 50 | 373.080.11 | 373.080.12 |
| 10 | 50 | 85 | 10x27 | 50 | 373.100.11 | 373.100.12 |
| 12 | 50 | 85 | 10x27 | 10 | 373.120.11 | 373.120.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- Negatively ground spurs [V2].
- 4 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

Spare parts



990.003.00

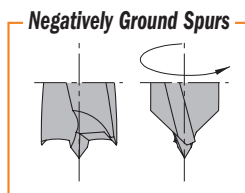
Optional



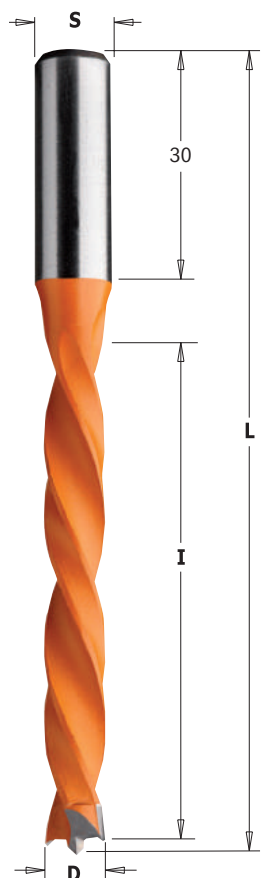
990.088.00

APPLICATION:

used on boring machines equipped with adaptors or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.



4 Flute Dowel Drills



372



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 65 | 105 | 10x30 | 10 | 372.050.11 | 372.050.12 |
| 6 | 65 | 105 | 10x30 | 10 | 372.060.11 | 372.060.12 |
| 7 | 65 | 105 | 10x30 | 10 | 372.070.11 | 372.070.12 |
| 8 | 65 | 105 | 10x30 | 10 | 372.080.11 | 372.080.12 |
| 10 | 65 | 105 | 10x30 | 10 | 372.100.11 | 372.100.12 |
| 12 | 65 | 105 | 10x30 | 10 | 372.120.11 | 372.120.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- Negatively ground spurs [V2].
- 4 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

Spare parts



990.003.00

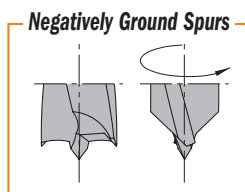
Optional



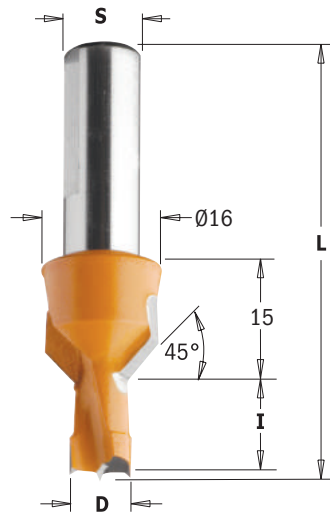
990.088.00

APPLICATION:

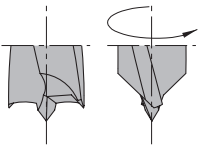
used on boring machines equipped with adaptors or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.



Dowel Drills with Countersink



Negatively Ground Spurs



376-377



| D | I | L | S | PACK Qty. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|----|----|------|----|-----------|-------------------------------|------------------------------|
| 8 | 12 | 57,5 | 10 | 10 | 376.080.11 | 376.080.12 |
| 8 | 13 | 57,5 | 10 | 10 | 376.083.11 | 376.083.12 |
| 8 | 15 | 57,5 | 10 | 10 | 376.081.11 | 376.081.12 |
| 8 | 20 | 57,5 | 10 | 10 | 376.082.11 | 376.082.12 |
| 10 | 12 | 57,5 | 10 | 10 | 376.100.11 | 376.100.12 |
| 10 | 13 | 57,5 | 10 | 10 | 376.103.11 | 376.103.12 |
| 10 | 15 | 57,5 | 10 | 10 | 376.101.11 | 376.101.12 |
| 10 | 20 | 57,5 | 10 | 10 | 376.102.11 | 376.102.12 |
| 8 | 12 | 70 | 10 | 10 | 377.080.11 | 377.080.12 |
| 8 | 13 | 70 | 10 | 10 | 377.083.11 | 377.083.12 |
| 8 | 15 | 70 | 10 | 10 | 377.081.11 | 377.081.12 |
| 8 | 20 | 70 | 10 | 10 | 377.082.11 | 377.082.12 |
| 10 | 12 | 70 | 10 | 10 | 377.100.11 | 377.100.12 |
| 10 | 13 | 70 | 10 | 10 | 377.103.11 | 377.103.12 |
| 10 | 15 | 70 | 10 | 10 | 377.101.11 | 377.101.12 |
| 10 | 20 | 70 | 10 | 10 | 377.102.11 | 377.102.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 ground spurs [V2].
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

Spare parts



990.003.00

Optional

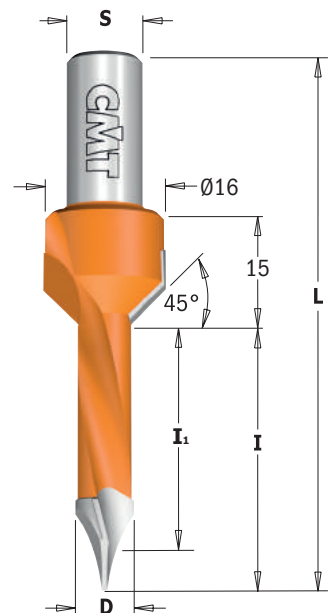


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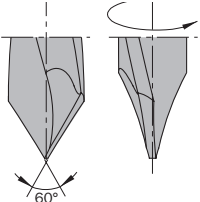
APPLICATION:

used for drilling and countersinking in solid wood, wood composites, plastic and laminated materials. Suitable for high performance speed on boring machines equipped with adaptors or chucks.

Dowel Drills for Through Holes with Countersink



60° Through Holes



378



| D | I | I ₁ | L | S | PACK Qty. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|----|----|----------------|----|----|-----------|-------------------------------|------------------------------|
| 5 | 35 | 31 | 70 | 10 | 10 | 378.052.11 | 378.052.12 |
| 7 | 35 | 29,5 | 70 | 10 | 10 | 378.072.11 | 378.072.12 |
| 8 | 35 | 29 | 70 | 10 | 10 | 378.082.11 | 378.082.12 |
| 10 | 35 | 26,5 | 70 | 10 | 10 | 378.102.11 | 378.102.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 ground spurs [V2].
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

Spare parts



990.003.00

Optional

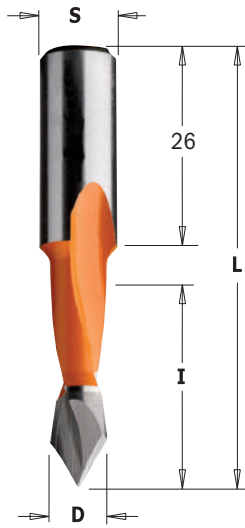


990.088.00

APPLICATION:

used for drilling and countersinking in solid wood, wood composites, plastic and laminated materials. Suitable for high performance speed on boring machines equipped with adaptors or chucks.

2 Flute Dowel Drills for Through Holes



313

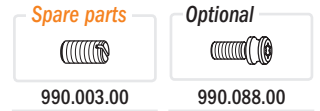


| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 27 | 57,5 | 10x26 | 50 | 313.050.11 | 313.050.12 |
| 6 | 27 | 57,5 | 10x26 | 50 | 313.060.11 | 313.060.12 |
| 8 | 27 | 57,5 | 10x26 | 50 | 313.080.11 | 313.080.12 |
| 10 | 27 | 57,5 | 10x26 | 50 | 313.100.11 | 313.100.12 |

For panels with maximum 20mm in thickness.

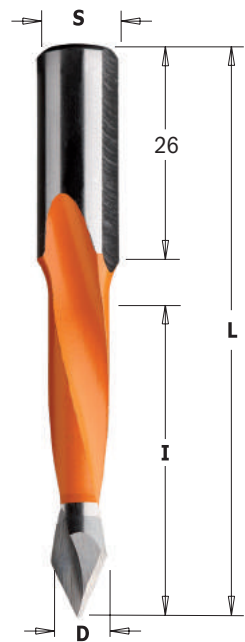
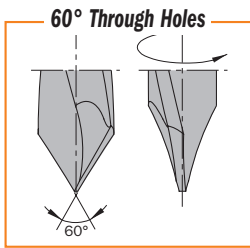
TECHNICAL DETAILS:

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.



APPLICATION:

used on boring machines and dowel drilling devices.
Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.



314



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 4 | 30 | 70 | 10x26 | 50 | 314.040.11 | 314.040.12 |
| 4,76 | 35 | 70 | 10x26 | 50 | 314.047.11 | 314.047.12 |
| 5 | 35 | 70 | 10x26 | 50 | 314.050.11 | 314.050.12 |
| 5,55 | 35 | 70 | 10x26 | 50 | 314.055.11 | 314.055.12 |
| 6 | 35 | 70 | 10x26 | 50 | 314.060.11 | 314.060.12 |
| 6,35 | 35 | 70 | 10x26 | 50 | 314.064.11 | 314.064.12 |
| 7 | 35 | 70 | 10x26 | 50 | 314.070.11 | 314.070.12 |
| 8 | 35 | 70 | 10x26 | 50 | 314.080.11 | 314.080.12 |
| 9 | 35 | 70 | 10x26 | 50 | 314.090.11 | 314.090.12 |
| 9,52 | 35 | 70 | 10x26 | 50 | 314.095.11 | 314.095.12 |
| 10 | 35 | 70 | 10x26 | 50 | 314.100.11 | 314.100.12 |
| 12 | 35 | 70 | 10x26 | 10 | 314.120.11 | 314.120.12 |
| 12,7 | 35 | 70 | 10x26 | 10 | 314.127.11 | 314.127.12 |

For panels with maximum 25-30mm in thickness.

366

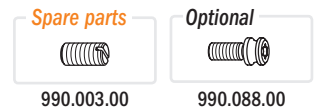


| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 44 | 77 | 10x26 | 50 | 366.050.11 | 366.050.12 |
| 6 | 44 | 77 | 10x26 | 50 | 366.060.11 | 366.060.12 |
| 8 | 44 | 77 | 10x26 | 50 | 366.080.11 | 366.080.12 |
| 10 | 44 | 77 | 10x26 | 50 | 366.100.11 | 366.100.12 |
| 12 | 44 | 77 | 10x26 | 10 | 366.120.11 | 366.120.12 |

For panels with maximum 30-40mm in thickness.

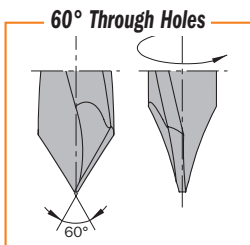
TECHNICAL DETAILS:

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

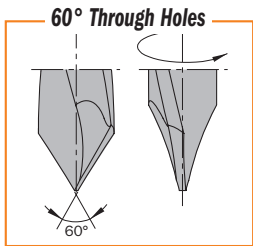
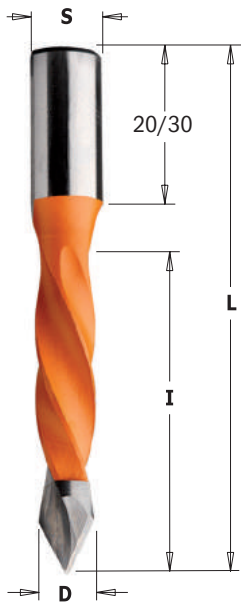


APPLICATION:

used on boring machines and dowel drilling devices.
Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.



4 Flute Dowel Drills for Through Holes



374 For panels with maximum 20-25mm in thickness.



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 30 | 57,5 | 10x20 | 50 | 374.050.11 | 374.050.12 |
| 8 | 30 | 57,5 | 10x20 | 50 | 374.080.11 | 374.080.12 |

375 For panels with maximum 30-35mm in thickness.

| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 4 | 40 | 70 | 10x20 | 50 | 375.040.11 | 375.040.12 |
| 5 | 40 | 70 | 10x20 | 50 | 375.050.11 | 375.050.12 |
| 6 | 40 | 70 | 10x20 | 50 | 375.060.11 | 375.060.12 |
| 7 | 40 | 70 | 10x20 | 50 | 375.070.11 | 375.070.12 |
| 8 | 40 | 70 | 10x20 | 50 | 375.080.11 | 375.080.12 |
| 9 | 40 | 70 | 10x20 | 50 | 375.090.11 | 375.090.12 |
| 10 | 40 | 70 | 10x20 | 50 | 375.100.11 | 375.100.12 |

381 For panels with maximum 60-65mm in thickness.

| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 70 | 115 | 10x30 | 10 | 381.050.11 | 381.050.12 |
| 6 | 70 | 115 | 10x30 | 10 | 381.060.11 | 381.060.12 |
| 8 | 70 | 115 | 10x30 | 10 | 381.080.11 | 381.080.12 |
| 10 | 70 | 115 | 10x30 | 10 | 381.100.11 | 381.100.12 |

TECHNICAL DETAILS:

- Super-strength steel
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- 2 precision ground cutting edges [Z2] - 4 spiral flutes
- Parallel shank with driving flat and length adjusting screw.

Spare parts



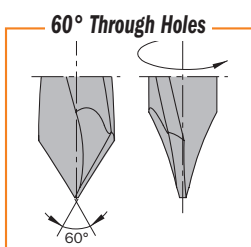
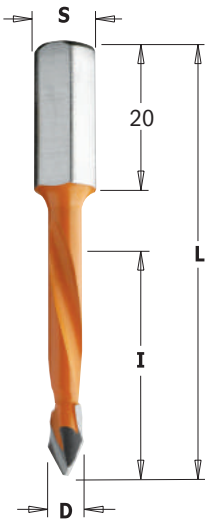
Optional



APPLICATION:

used on boring machines and dowel drilling devices.
Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.

2 Flute Dowel Drills for Through Holes



367



| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 30 | 56 | 8x20 | 50 | 367.050.11 | 367.050.12 |
| 8 | 30 | 56 | 8x20 | 50 | 367.080.11 | 367.080.12 |

For panels with maximum 20-25mm in thickness.

368

| D mm | I mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|---------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 43 | 70 | 8x20 | 50 | 368.050.11 | 368.050.12 |
| 6 | 43 | 70 | 8x20 | 50 | 368.060.11 | 368.060.12 |
| 7 | 43 | 70 | 8x20 | 50 | 368.070.11 | 368.070.12 |
| 8 | 43 | 70 | 8x20 | 50 | 368.080.11 | 368.080.12 |

For panels with maximum 35-40mm in thickness

TECHNICAL DETAILS:

- Super-strength steel
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- 2 precision ground cutting edges [Z2]
- 2 spiral flutes
- Parallel shank with driving flat and length adjusting screw.

Spare parts



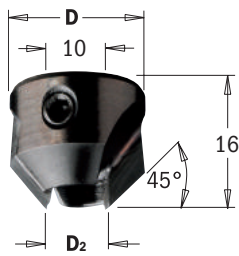
Optional



APPLICATION:

used on boring machines and dowel drilling devices.
Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.

Countersinks for 2 Flutes Dowel Drills



315



| D ₂ mm | D mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|----------------------|---------|--------------|----------------------------------|---------------------------------|
| 5 ~ 10 | 20 | 10 | 315.200.11 | 315.200.12 |
| 11 ~ 12 | 22 | 10 | 315.220.11 | 315.220.12 |

**For assembly on the shank of the drill.
For use with the following parts: 310-311-362-313-314-366 HW**



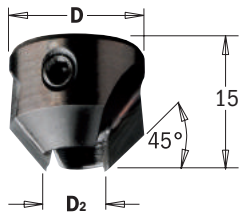
TECHNICAL DETAILS:

- Super-strength steel.
- 2 precision ground carbide tipped cutting edges [Z2].
- Direct clamp on the shank of the drills.

APPLICATION:

used for chamfering and drilling in solid wood, wood composites, plastic and laminated materials.

Countersinks for 4 Flutes Dowel Drills



316



| D ₂ mm | D mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|----------------------|---------|--------------|----------------------------------|---------------------------------|
| 4 | 16 | 10 | 316.040.11 | 316.040.12 |
| 5 | 16 | 10 | 316.050.11 | 316.050.12 |
| 6 | 16 | 10 | 316.060.11 | 316.060.12 |
| 7 | 16 | 10 | 316.070.11 | 316.070.12 |
| 8 | 18 | 10 | 316.080.11 | 316.080.12 |
| 9 | 18 | 10 | 316.090.11 | 316.090.12 |
| 10 | 20 | 10 | 316.100.11 | 316.100.12 |
| 12 | 20 | 10 | 316.120.11 | 316.120.12 |

**For assembly on the spiral head of the bit.
Adjustable depth.**

**For use with the following parts:
306-307-308-309-373-374-375-338-339
340-341-342-343-344-346-352-353 HW**

TECHNICAL DETAILS:

- Super-strength steel.
- 2 HW precision ground cutting edges [Z2].

APPLICATION:

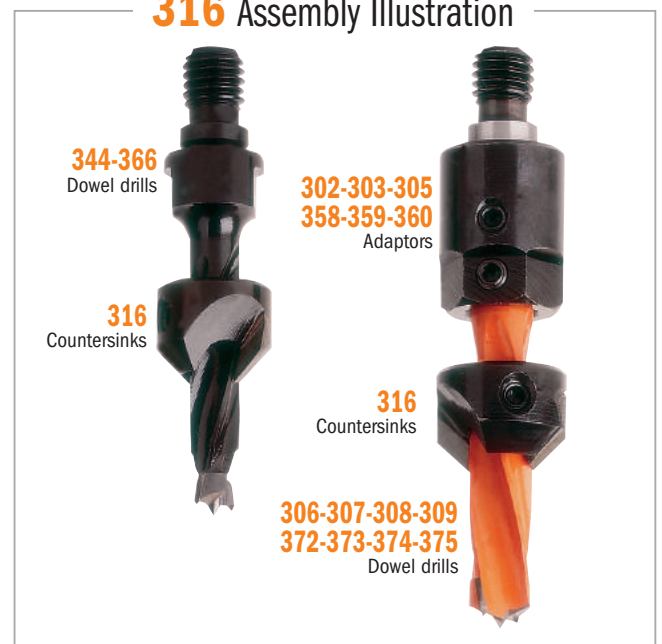
used for drilling and chamfering in solid wood, wood composites, plastic and laminated materials.



315 Assembly Illustration

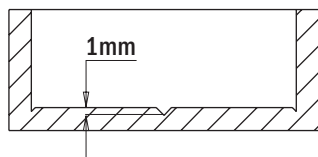
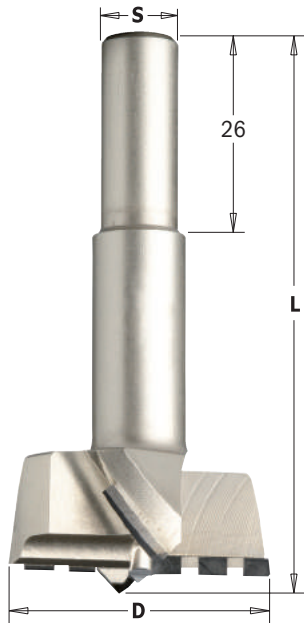


316 Assembly Illustration



| LINE | XTREME DIAMOND | XTREME FLAT | INDUSTRIAL with chipbreaker | INDUSTRIAL |
|--------------------------|--|---|--|--|
| PERFORMANCE | SUPERIOR ★★★★★ | SUPERIOR ★★★★★ | EXCELLENT ★★★ | VERY GOOD ★★★ |
| BIT | | | | |
| DESCRIPTION | Designed for heavy duty drilling in Large-Scale Industrial Manufacturing ensuring high impact resistance, greater durability and good chip evacuation thanks to the chipbreaker. | Designed for heavy duty drilling in Large-Scale Industrial Manufacturing ensuring high impact resistance and greater durability. | Designed for medium-duty to light-duty drilling in medium-scale to small-scale industrial manufacturing ensuring good chip evacuation thanks to the chipbreaker. | Designed for medium-duty to light-duty drilling in medium-scale to small-scale industrial manufacturing ensuring rigorous impact resistance and good durability. |
| USER | LARGE-SCALE INDUSTRIAL MANUFACTURING | LARGE-SCALE INDUSTRIAL MANUFACTURING | LARGE-SCALE TO MEDIUM-SCALE INDUSTRIAL MANUFACTURING | LARGE-SCALE TO MEDIUM-SCALE INDUSTRIAL MANUFACTURING |
| RECOMMENDED USE | INDUSTRIAL PRODUCTION | INDUSTRIAL PRODUCTION | INDUSTRIAL/REMODELER | INDUSTRIAL/REMODELER |
| MATERIALS | Ideal for chipboard, MDF, HDF, laminates and abrasive panels where long lifetime is required. | Ideal for chipboard, MDF, HDF and laminates. Non-protruding center-point and spurs make this tool perfect for low-thickness panels. | Excellent for solid wood. Good for chipboard, MDF, HDF and laminates. | Excellent for solid wood. Good for chipboard, MDF, HDF and laminates. |
| SHARPENING & MAINTENANCE | NEGATIVELY GROUND SPURS: standard design with HW head with precision balanced centre point, 2 HW precision ground cutting edges with chipbreaker and 2 negatively ground spurs. | XTREME FLAT SHARPENING: flat edges with reinforced spurs allow perfect finishing and prolonged drilling at high-speed cutting feed. | NEGATIVELY GROUND SPURS: standard design with HW head with precision balanced centre point, 2 HW precision ground cutting edges with chipbreaker and 2 negatively ground spurs. | NEGATIVELY GROUND SPURS: standard design with HW head with precision balanced centre point, 2 HW precision ground cutting edges and 2 negatively ground spurs. |
| DIAMOND / CARBIDE | The special polycrystalline diamond formula increases tool life up to 20 times longer than HW hinge bits. Good number of resharpenings guaranteed. The best quality/price ratio | INDUSTRIAL CHROMIUM MICROGRAIN CARBIDE The special chromium enhanced carbide produces clean bores with no rough edges even in the corners. In addition Chromium Micrograin Carbide guarantees exceptional resistance to fatigue and abrasion for longer lifetime. | INDUSTRIAL GRADE CARBIDE Fine and medium grain carbide grade guarantee reliable prolonged use. | INDUSTRIAL GRADE CARBIDE Fine and medium grain carbide grade guarantee reliable prolonged use. |
| COATING | High-quality nickel-plated with anti-friction and anti-corrosion properties. | C.M.T.'s P.T.F.E coating provides a non-stick surface preventing resin, glue or sludge residue accumulation on the bit body. Baked at 420°, this unique industrial material is specifically designed to fit woodworking tool requirements. | C.M.T.'s P.T.F.E coating provides a non-stick surface preventing resin, glue or sludge residue accumulation on the bit body. Baked at 420°, this unique industrial material is specifically designed to fit woodworking tool requirements. | C.M.T.'s P.T.F.E coating provides a non-stick surface preventing resin, glue or sludge residue accumulation on the bit body. Baked at 420°, this unique industrial material is specifically designed to fit woodworking tool requirements. |
| PRICE RANGE | HIGH | MEDIUM/HIGH | MEDIUM | MEDIUM |

DP Hinge Boring Bits with chipbreaker



New construction with 1mm centre point

317-369

DP
LONG LIFE
Z2
V2
RH
LH
20X LONGER LIFE THAN CARBIDE

| D | L | S | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|-----|------|-------|-----------|-------------------------------|------------------------------|
| 15* | 57,5 | 10x26 | 10 | 317.150.61 | 317.150.62 |
| 35 | 57,5 | 10x26 | 10 | 317.350.61 | 317.350.62 |
| 15* | 70 | 10x26 | 10 | 369.150.61 | 369.150.62 |
| 35 | 70 | 10x26 | 10 | 369.350.61 | 369.350.62 |

*without chipbreaker

TECHNICAL DETAILS:

- Super-strength steel.
- DP head with precision balanced centre point.
- 2 DP precision ground cutting edges with chipbreaker [Z2R].
- 2 DP negatively ground spurs [V2].
- Parallel shank with driving flat and length adjusting screw.

APPLICATION:

ideal for hinges. Use on boring machines equipped with adaptors or chucks. Use for drilling accurate and clean-cut blind holes in wood composites, plastic and laminated materials. Boring performance 20 times longer than HW materials.

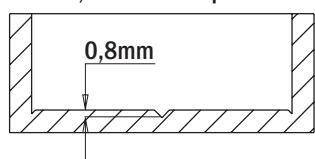
REMARK: special dimensions available on request.

Spare parts 990.003.00
 Optional 990.088.00

Hinge Boring Bits



New construction with 0,8mm centre point



317 TREME



| D mm | L mm | S mm | PACK Qty. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|-------|-----------|-------------------------------|------------------------------|
| 15 | 57,5 | 10x26 | 10 | 317.150.41 | 317.150.42 |
| 18 | 57,5 | 10x26 | 10 | 317.180.41 | 317.180.42 |
| 20 | 57,5 | 10x26 | 10 | 317.200.41 | 317.200.42 |
| 25 | 57,5 | 10x26 | 10 | 317.250.41 | 317.250.42 |
| 26 | 57,5 | 10x26 | 10 | 317.260.41 | 317.260.42 |
| 35* | 57,5 | 10x26 | 10 | 317.350.41 | 317.350.42 |

*with chipbreaker

369 TREME



| D mm | L mm | S mm | PACK Qty. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|-------|-----------|-------------------------------|------------------------------|
| 15 | 70 | 10x26 | 10 | 369.150.41 | 369.150.42 |
| 18 | 70 | 10x26 | 10 | 369.180.41 | 369.180.42 |
| 20 | 70 | 10x26 | 10 | 369.200.41 | 369.200.42 |
| 25 | 70 | 10x26 | 10 | 369.250.41 | 369.250.42 |
| 26 | 70 | 10x26 | 10 | 369.260.41 | 369.260.42 |
| 35* | 70 | 10x26 | 10 | 369.350.41 | 369.350.42 |

*with chipbreaker

TECHNICAL DETAILS:

- Super-strength steel.
- Cutter portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 negatively ground spurs [V2].
- Parallel shank with driving flat and length adjusting screw.

APPLICATION:

ideal for hinges. Use on boring machines equipped with adaptors or chucks. Use for drilling accurate and clean-cut blind holes in solid wood, wood composites, plastic and laminated materials.

Spare parts



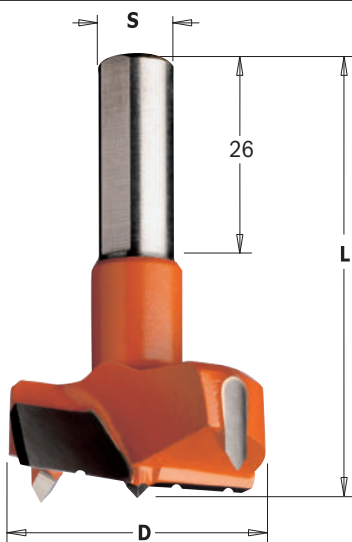
990.003.00

Optional

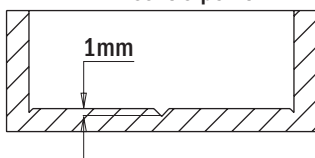


990.088.00

Hinge Boring Bits with chipbreaker



New construction with 1mm centre point



317C - 369C



| D mm | L mm | S mm | PACK Qty. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|-------|-----------|-------------------------------|------------------------------|
| 35 | 57,5 | 10x26 | 10 | 317.350.11C | 317.350.12C |
| 40 | 57,5 | 10x26 | 10 | 317.400.11C | 317.400.12C |
| 45 | 57,5 | 10x26 | 10 | 317.450.11C | 317.450.12C |
| 35 | 70 | 10x26 | 10 | 369.350.11C | 369.350.12C |
| 40 | 70 | 10x26 | 10 | 369.400.11C | 369.400.12C |
| 45 | 70 | 10x26 | 10 | 369.450.11C | 369.450.12C |

TECHNICAL DETAILS:

- Super-strength steel.
- Cutter portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges with chipbreaker [Z2R].
- 2 negatively ground spurs [V2].
- Parallel shank with driving flat and length adjusting screw.

APPLICATION:

ideal for hinges. Used on boring machines equipped with adaptors or chucks. For drilling accurate and clean-cut blind holes in solid wood.

Spare parts



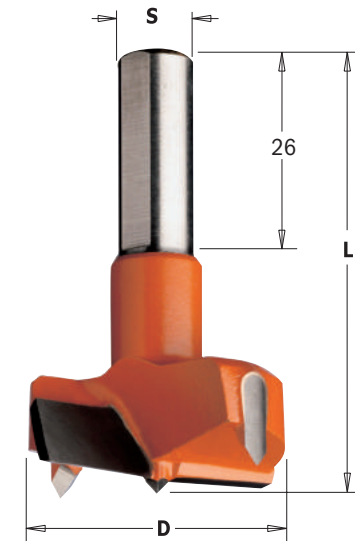
990.003.00

Optional

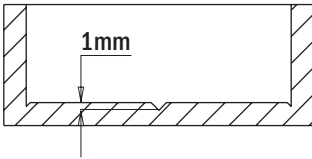


990.088.00

Hinge Boring Bits



New construction with 1mm centre point



317

HW Z2 V2 RH LH

| D mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|-------|-----------|-------------------------------|------------------------------|
| 14 | 57,5 | 10x26 | 10 | 317.140.11 | 317.140.12 |
| 15 | 57,5 | 10x26 | 10 | 317.150.11 | 317.150.12 |
| 16 | 57,5 | 10x26 | 10 | 317.160.11 | 317.160.12 |
| 17 | 57,5 | 10x26 | 10 | 317.170.11 | 317.170.12 |
| 18 | 57,5 | 10x26 | 10 | 317.180.11 | 317.180.12 |
| 19 | 57,5 | 10x26 | 10 | 317.190.11 | 317.190.12 |
| 20 | 57,5 | 10x26 | 10 | 317.200.11 | 317.200.12 |
| 22 | 57,5 | 10x26 | 10 | 317.220.11 | 317.220.12 |
| 24 | 57,5 | 10x26 | 10 | 317.240.11 | 317.240.12 |
| 25 | 57,5 | 10x26 | 10 | 317.250.11 | 317.250.12 |
| 26 | 57,5 | 10x26 | 10 | 317.260.11 | 317.260.12 |
| 28 | 57,5 | 10x26 | 10 | 317.280.11 | 317.280.12 |
| 30 | 57,5 | 10x26 | 10 | 317.300.11 | 317.300.12 |
| 32 | 57,5 | 10x26 | 10 | 317.320.11 | 317.320.12 |
| 34 | 57,5 | 10x26 | 10 | 317.340.11 | 317.340.12 |
| 35 | 57,5 | 10x26 | 10 | 317.350.11 | 317.350.12 |
| 38 | 57,5 | 10x26 | 10 | 317.380.11 | 317.380.12 |
| 40 | 57,5 | 10x26 | 10 | 317.400.11 | 317.400.12 |
| 42 | 57,5 | 10x26 | 10 | 317.420.11 | 317.420.12 |
| 45 | 57,5 | 10x26 | 10 | 317.450.11 | 317.450.12 |
| 50 | 57,5 | 10x26 | 10 | 317.500.11 | 317.500.12 |
| 55 | 57,5 | 10x26 | 10 | 317.550.11 | 317.550.12 |
| 60 | 57,5 | 10x26 | 10 | 317.600.11 | 317.600.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- Cutter portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 negatively ground spurs [V2].
- Parallel shank with driving flat and length adjusting screw.

APPLICATION:

ideal for hinges. Use on boring machines equipped with adaptors or chucks. Use for drilling accurate and clean-cut blind holes in solid wood, wood composites, plastic and laminated materials.

369

HW Z2 V2 RH LH

| D mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|-------|-----------|-------------------------------|------------------------------|
| 14 | 70 | 10x26 | 10 | 369.140.11 | 369.140.12 |
| 15 | 70 | 10x26 | 10 | 369.150.11 | 369.150.12 |
| 16 | 70 | 10x26 | 10 | 369.160.11 | 369.160.12 |
| 18 | 70 | 10x26 | 10 | 369.180.11 | 369.180.12 |
| 20 | 70 | 10x26 | 10 | 369.200.11 | 369.200.12 |
| 22 | 70 | 10x26 | 10 | 369.220.11 | 369.220.12 |
| 25 | 70 | 10x26 | 10 | 369.250.11 | 369.250.12 |
| 26 | 70 | 10x26 | 10 | 369.260.11 | 369.260.12 |
| 30 | 70 | 10x26 | 10 | 369.300.11 | 369.300.12 |
| 35 | 70 | 10x26 | 10 | 369.350.11 | 369.350.12 |
| 40 | 70 | 10x26 | 10 | 369.400.11 | 369.400.12 |
| 45 | 70 | 10x26 | 10 | 369.450.11 | 369.450.12 |
| 50 | 70 | 10x26 | 10 | 369.500.11 | 369.500.12 |
| 55 | 70 | 10x26 | 10 | 369.550.11 | 369.550.12 |
| 60 | 70 | 10x26 | 10 | 369.600.11 | 369.600.12 |

370

HW Z2 V2 RH LH

| D mm | L mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|------|------|-------|-----------|-------------------------------|------------------------------|
| 18 | 77 | 10x30 | 10 | 370.180.11 | 370.180.12 |
| 20 | 77 | 10x30 | 10 | 370.200.11 | 370.200.12 |
| 25 | 77 | 10x30 | 10 | 370.250.11 | 370.250.12 |
| 30 | 77 | 10x30 | 10 | 370.300.11 | 370.300.12 |
| 35 | 77 | 10x30 | 10 | 370.350.11 | 370.350.12 |

Spare parts



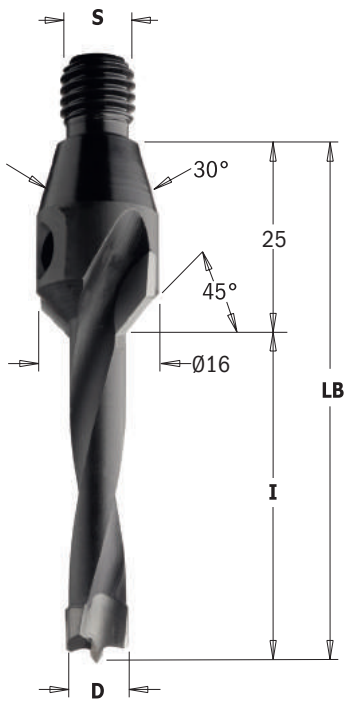
990.003.00

Optional



990.088.00

Dowel Drills with Threaded Shank with Countersink



332-334-336-337



| D mm | I mm | LB mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|----------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 20 | 45 | M10/30° | 10 | 332.050.11 | 332.050.12 |
| 6 | 20 | 45 | M10/30° | 10 | 332.060.11 | 332.060.12 |
| 8 | 20 | 45 | M10/30° | 10 | 332.080.11 | 332.080.12 |
| 10 | 20 | 45 | M10/30° | 10 | 332.100.11 | 332.100.12 |
| 12 | 20 | 45 | M10/30° | 10 | 332.120.11 | 332.120.12 |
| | | | | | | |
| 5 | 30 | 55 | M10/30° | 10 | 334.050.11 | 334.050.12 |
| 6 | 30 | 55 | M10/30° | 10 | 334.060.11 | 334.060.12 |
| 8 | 30 | 55 | M10/30° | 10 | 334.080.11 | 334.080.12 |
| 10 | 30 | 55 | M10/30° | 10 | 334.100.11 | 334.100.12 |
| 12 | 30 | 55 | M10/30° | 10 | 334.120.11 | 334.120.12 |
| | | | | | | |
| 5 | 40 | 65 | M10/30° | 10 | 336.050.11 | 336.050.12 |
| 6 | 40 | 65 | M10/30° | 10 | 336.060.11 | 336.060.12 |
| 8 | 40 | 65 | M10/30° | 10 | 336.080.11 | 336.080.12 |
| 10 | 40 | 65 | M10/30° | 10 | 336.100.11 | 336.100.12 |
| 12 | 40 | 65 | M10/30° | 10 | 336.120.11 | 336.120.12 |
| | | | | | | |
| 5 | 50 | 75 | M10/30° | 10 | 337.050.11 | 337.050.12 |
| 6 | 50 | 75 | M10/30° | 10 | 337.060.11 | 337.060.12 |
| 8 | 50 | 75 | M10/30° | 10 | 337.080.11 | 337.080.12 |
| 10 | 50 | 75 | M10/30° | 10 | 337.100.11 | 337.100.12 |
| 12 | 50 | 75 | M10/30° | 10 | 337.120.11 | 337.120.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- HW head with precision balanced centre point.
- 2 precision ground cutting edge [Z2].
- 2 ground spurs [V2].
- 2 spiral flutes.

APPLICATION:

used on boring machines equipped with chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

Dowel Drills with Threaded Shank without Countersink



341-342-343



| D mm | I mm | LB mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|----------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 30 | 55 | M10/30° | 10 | 341.050.11 | 341.050.12 |
| 6 | 30 | 55 | M10/30° | 10 | 341.060.11 | 341.060.12 |
| 8 | 30 | 55 | M10/30° | 10 | 341.080.11 | 341.080.12 |
| 10 | 30 | 55 | M10/30° | 10 | 341.100.11 | 341.100.12 |
| 12 | 30 | 55 | M10/30° | 10 | 341.120.11 | 341.120.12 |
| | | | | | | |
| 5 | 40 | 65 | M10/30° | 10 | 342.050.11 | 342.050.12 |
| 6 | 40 | 65 | M10/30° | 10 | 342.060.11 | 342.060.12 |
| 8 | 40 | 65 | M10/30° | 10 | 342.080.11 | 342.080.12 |
| 10 | 40 | 65 | M10/30° | 10 | 342.100.11 | 342.100.12 |
| 12 | 40 | 65 | M10/30° | 10 | 342.120.11 | 342.120.12 |
| | | | | | | |
| 5 | 50 | 75 | M10/30° | 10 | 343.050.11 | 343.050.12 |
| 6 | 50 | 75 | M10/30° | 10 | 343.060.11 | 343.060.12 |
| 8 | 50 | 75 | M10/30° | 10 | 343.080.11 | 343.080.12 |
| 10 | 50 | 75 | M10/30° | 10 | 343.100.11 | 343.100.12 |
| 12 | 50 | 75 | M10/30° | 20 | 343.120.11 | 343.120.12 |

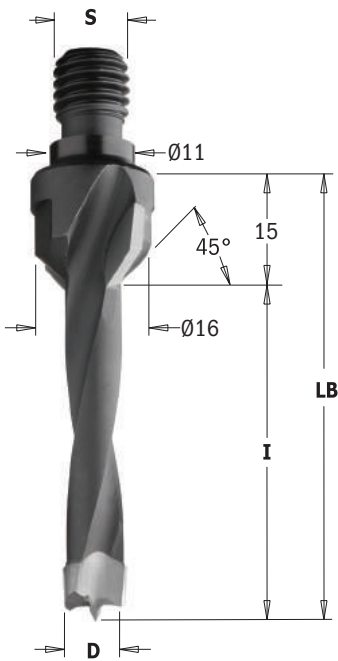
TECHNICAL DETAILS:

- Super-strength steel.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 ground spurs [V2].
- 4 spiral flutes.

APPLICATION:

used on boring machines equipped with chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

Dowel Drills with Threaded Shank with Countersink



325-327-329-330



| D mm | I mm | LB mm | S mm | PACK QTY. | ORDER NO. | ORDER NO. |
|---------|---------|----------|----------|--------------|---------------------|--------------------|
| | | | | | Right-hand rotation | Left-hand rotation |
| 5 | 20 | 35 | M10/11x4 | 10 | 325.050.11 | 325.050.12 |
| 6 | 20 | 35 | M10/11x4 | 10 | 325.060.11 | 325.060.12 |
| 8 | 20 | 35 | M10/11x4 | 10 | 325.080.11 | 325.080.12 |
| 10 | 20 | 35 | M10/11x4 | 10 | 325.100.11 | 325.100.12 |
| 12 | 20 | 35 | M10/11x4 | 10 | 325.120.11 | 325.120.12 |
| | | | | | | |
| 5 | 30 | 45 | M10/11x4 | 10 | 327.050.11 | 327.050.12 |
| 6 | 30 | 45 | M10/11x4 | 10 | 327.060.11 | 327.060.12 |
| 8 | 30 | 45 | M10/11x4 | 10 | 327.080.11 | 327.080.12 |
| 10 | 30 | 45 | M10/11x4 | 10 | 327.100.11 | 327.100.12 |
| 12 | 30 | 45 | M10/11x4 | 10 | 327.120.11 | 327.120.12 |
| | | | | | | |
| 5 | 40 | 55 | M10/11x4 | 10 | 329.050.11 | 329.050.12 |
| 6 | 40 | 55 | M10/11x4 | 10 | 329.060.11 | 329.060.12 |
| 8 | 40 | 55 | M10/11x4 | 10 | 329.080.11 | 329.080.12 |
| 10 | 40 | 55 | M10/11x4 | 10 | 329.100.11 | 329.100.12 |
| 12 | 40 | 55 | M10/11x4 | 10 | 329.120.11 | 329.120.12 |
| | | | | | | |
| 5 | 50 | 65 | M10/11x4 | 10 | 330.050.11 | 330.050.12 |
| 6 | 50 | 65 | M10/11x4 | 10 | 330.060.11 | 330.060.12 |
| 8 | 50 | 65 | M10/11x4 | 10 | 330.080.11 | 330.080.12 |
| 10 | 50 | 65 | M10/11x4 | 10 | 330.100.11 | 330.100.12 |
| 12 | 50 | 65 | M10/11x4 | 10 | 330.120.11 | 330.120.12 |

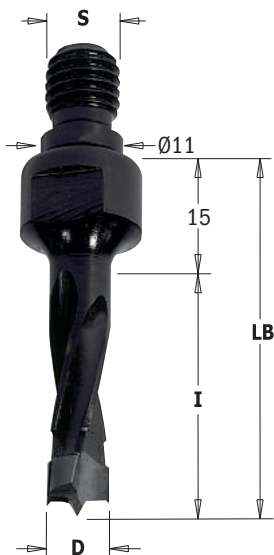
TECHNICAL DETAILS:

- Super-strength steel.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 spiral flutes.
- 2 ground spurs [V2].

APPLICATION:

used on boring machines equipped with chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

Dowel Drills with Threaded Shank without Countersink



338-339-340



| D mm | I mm | LB mm | S mm | PACK QTY. | ORDER NO. | ORDER NO. |
|---------|---------|----------|----------|--------------|---------------------|--------------------|
| | | | | | Right-hand rotation | Left-hand rotation |
| 5 | 30 | 45 | M10/11x4 | 10 | 338.050.11 | 338.050.12 |
| 6 | 30 | 45 | M10/11x4 | 10 | 338.060.11 | 338.060.12 |
| 8 | 30 | 45 | M10/11x4 | 10 | 338.080.11 | 338.080.12 |
| 10 | 30 | 45 | M10/11x4 | 10 | 338.100.11 | 338.100.12 |
| 12 | 30 | 45 | M10/11x4 | 10 | 338.120.11 | 338.120.12 |
| | | | | | | |
| 5 | 40 | 55 | M10/11x4 | 10 | 339.050.11 | 339.050.12 |
| 6 | 40 | 55 | M10/11x4 | 10 | 339.060.11 | 339.060.12 |
| 8 | 40 | 55 | M10/11x4 | 10 | 339.080.11 | 339.080.12 |
| 10 | 40 | 55 | M10/11x4 | 10 | 339.100.11 | 339.100.12 |
| 12 | 40 | 55 | M10/11x4 | 10 | 339.120.11 | 339.120.12 |
| | | | | | | |
| 5 | 50 | 65 | M10/11x4 | 10 | 340.050.11 | 340.050.12 |
| 6 | 50 | 65 | M10/11x4 | 10 | 340.060.11 | 340.060.12 |
| 8 | 50 | 65 | M10/11x4 | 10 | 340.080.11 | 340.080.12 |
| 10 | 50 | 65 | M10/11x4 | 10 | 340.100.11 | 340.100.12 |
| 12 | 50 | 65 | M10/11x4 | 10 | 340.120.11 | 340.120.12 |

TECHNICAL DETAILS:

- Super-strength steel.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 ground spurs [V2].
- 4 spiral flutes.

APPLICATION:

used on boring machines equipped with chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

Dowel Drills with Threaded Shank



344



| D mm | I mm | LB mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|----------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 43 | 63 | M8 | 10 | 344.050.11 | 344.050.12 |
| 6 | 43 | 63 | M8 | 10 | 344.060.11 | 344.060.12 |
| 8 | 43 | 63 | M8 | 10 | 344.080.11 | 344.080.12 |
| 10 | 43 | 63 | M8 | 10 | 344.100.11 | 344.100.12 |
| 12 | 43 | 63 | M8 | 10 | 344.120.11 | 344.120.12 |

FOR USE ON THE FOLLOWING MACHINES:

Nottmeyer (older models)

346



| D mm | I mm | LB mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|----------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 43 | 63 | M10 | 10 | 346.050.11 | 346.050.12 |
| 6 | 43 | 63 | M10 | 10 | 346.060.11 | 346.060.12 |
| 8 | 43 | 63 | M10 | 10 | 346.080.11 | 346.080.12 |
| 10 | 43 | 63 | M10 | 10 | 346.100.11 | 346.100.12 |
| 12 | 43 | 63 | M10 | 10 | 346.120.11 | 346.120.12 |

FOR USE ON THE FOLLOWING MACHINES:

Ayen, Holzma, Knoevenagel, Mayer, Torwegge.

TECHNICAL DETAILS:

- Super-strength steel.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 ground spurs [V2].
- 4 spiral flutes.

APPLICATION:

used on boring machines equipped with chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

Dowel Drills with Threaded Shank



352-353



| D mm | I mm | LB mm | S mm | PACK QTY. | ORDER NO. Right-hand rotation | ORDER NO. Left-hand rotation |
|---------|---------|----------|---------|--------------|----------------------------------|---------------------------------|
| 5 | 30 | 45 | M8/9 | 10 | 352.050.11 | 352.050.12 |
| 6 | 30 | 45 | M8/9 | 10 | 352.060.11 | 352.060.12 |
| 8 | 30 | 45 | M8/9 | 10 | 352.080.11 | 352.080.12 |
| 10 | 30 | 45 | M8/9 | 10 | 352.100.11 | 352.100.12 |
| 12 | 30 | 45 | M8/9 | 10 | 352.120.11 | 352.120.12 |

| | | | | | | |
|----|----|----|------|----|------------|------------|
| 5 | 40 | 55 | M8/9 | 10 | 353.050.11 | 353.050.12 |
| 6 | 40 | 55 | M8/9 | 10 | 353.060.11 | 353.060.12 |
| 8 | 40 | 55 | M8/9 | 10 | 353.080.11 | 353.080.12 |
| 10 | 40 | 55 | M8/9 | 10 | 353.100.11 | 353.100.12 |
| 12 | 40 | 55 | M8/9 | 10 | 353.120.11 | 353.120.12 |

FOR USE ON THE FOLLOWING MACHINES:

Masterwood (Zangheri & Boschetti)
Morbidelli, Nottmeyer (new design)

TECHNICAL DETAILS:

- Super-strength steel.
- HW head with precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 ground spurs [V2].
- 4 spiral flutes.

APPLICATION:

used on boring machines equipped with chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.