

# BITS FOR HAND POWER TOOLS

**TOOLBOX**

Darbagaldi & Instrumenti

[www.TOOLBOX.lv](http://www.TOOLBOX.lv)

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## Adapters



### 509-532-533 ...with parallel shank for interchangeable bits

**RH** **LH**

S mm	LB mm			ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
8x30	35		10	<b>532.080.01</b>	
9,5x30	35		10	<b>532.095.01</b>	
10x50	60		1	<b>533.100.01</b>	<b>533.100.02</b>
12x30	35		10	<b>532.120.01</b>	
13x50	100		1	<b>509.130.01</b>	<b>509.130.02</b>
16x50	100		1	<b>509.160.01</b>	<b>509.160.02</b>

For use with the following parts: 501 HW

**TECHNICAL DETAILS:**

- Super strength steel.
- Parallel shank with driving flat and adjustable screw length.

**APPLICATION:**

used on boring machines with Adapter chucks.

## Adapters



### 511 ...with parallel shank for quick change drills

**RH** **LH**

S mm	LB mm		ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
10x20 (with driving flat and screw)	27	10	<b>511.270.01</b>	<b>511.270.02</b>
10x35 (with driving flat and screw)	40	10	<b>511.400.01</b>	<b>511.400.02</b>

For use with the following parts: 501 HW'

**TECHNICAL DETAILS:**

- Super strength steel.
- Parallel shank with driving flat and adjustable screw length.

**APPLICATION:**

used on boring machines with Adapter chucks.

Spare parts



## Adapters



### 506

**RH** **LH**

S mm	LB mm		ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
M10/11x4	15	1	<b>506.150.01</b>	<b>506.150.02</b>
M10/11x4	25	1	<b>506.250.01</b>	<b>506.250.02</b>
M10/11x4	35	1	<b>506.350.01</b>	<b>506.350.02</b>

For use with the following parts: 501 HW

**TECHNICAL DETAILS:**

- Super strength steel.
- Parallel shank with driving flat and adjustable screw length.

**APPLICATION:**

used on boring machines with Adapter chucks.

## Adapters



### 503

**RH LH**

S mm	LB mm			ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
M10/30°	25		1	<b>503.250.01</b>	<b>503.250.02</b>
M10/30°	35		1	<b>503.350.01</b>	<b>503.350.02</b>
M10/30°	45		1	<b>503.450.01</b>	<b>503.450.02</b>

For use with the following parts: 501 HW

**TECHNICAL DETAILS:**

- Super strength steel.
- Parallel shank with driving flat and adjustable screw length

**APPLICATION:**

used on boring machines with Adapter chucks.

## Adapters



### 534

**RH**

S			ORDER NO. Right-hand rotation
MK2/Ø20x14F.x1"		1	<b>534.020.01</b>
MK2/M30x1,5		1	<b>534.030.01</b>

For use with the following parts: 501 HW

**TECHNICAL DETAILS:**

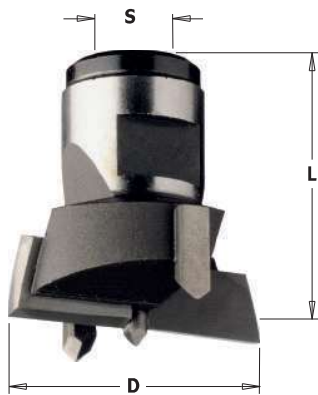
- Super strength steel.

**APPLICATION:**

used on CNC machines or hand-held routers equipped with Adapter chucks.



## Interchangeable Boring Bits with Threaded Shank

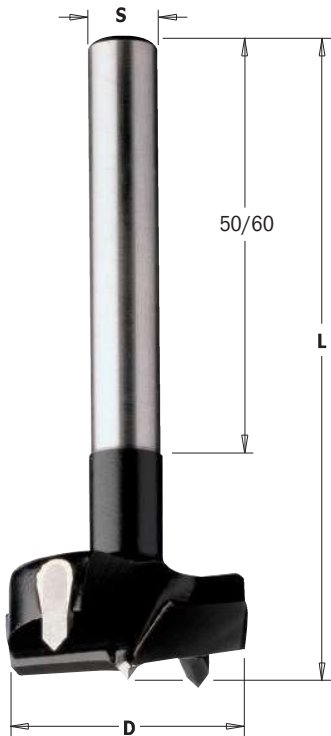


### 501

**HW Z2+2 RH LH**

D mm	L mm	S mm		ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
20	30	M12x1	1	<b>501.200.11</b>	<b>501.200.12</b>
22	30	M12x1	1	<b>501.220.11</b>	<b>501.220.12</b>
24	30	M12x1	1	<b>501.240.11</b>	<b>501.240.12</b>
25	30	M12x1	1	<b>501.250.11</b>	<b>501.250.12</b>
26	30	M12x1	1	<b>501.260.11</b>	<b>501.260.12</b>
30	30	M12x1	1	<b>501.300.11</b>	<b>501.300.12</b>
32	30	M12x1	1	<b>501.320.11</b>	<b>501.320.12</b>
34	30	M12x1	1	<b>501.340.11</b>	<b>501.340.12</b>
35	30	M12x1	1	<b>501.350.11</b>	<b>501.350.12</b>
36	30	M12x1	1	<b>501.360.11</b>	<b>501.360.12</b>
38	30	M12x1	1	<b>501.380.11</b>	<b>501.380.12</b>
40	30	M12x1	1	<b>501.400.11</b>	<b>501.400.12</b>
45	30	M12x1	1	<b>501.450.11</b>	<b>501.450.12</b>
50	30	M12x1	1	<b>501.500.11</b>	<b>501.500.12</b>
55	30	M12x1	1	<b>501.550.11</b>	<b>501.550.12</b>
60	30	M12x1	1	<b>501.600.11</b>	<b>501.600.12</b>

# Boring Bits with Parallel Shank



## 512

D mm	L mm	S mm		ORDER NO. Right-hand rotation
14	90	10x60	10	512.140.11
15	90	10x60	10	512.150.11
16	90	10x60	10	512.160.11
17	90	10x60	10	512.170.11
18	90	10x60	10	512.180.11
19	90	10x60	10	512.190.11
20	90	10x60	10	512.200.11
21	90	10x60	10	512.210.11
22	90	10x60	10	512.220.11
23	90	10x60	10	512.230.11
24	90	10x60	10	512.240.11
25	90	10x60	10	512.250.11
26	90	10x60	10	512.260.11
27	90	10x60	10	512.270.11
28	90	10x60	10	512.280.11
29	90	10x60	10	512.290.11
30	90	10x60	10	512.300.11
31	90	10x60	10	512.310.11
32	90	10x60	10	512.320.11
33	90	10x60	10	512.330.11
34	90	10x60	10	512.340.11
35	90	10x60	10	512.350.11
38	90	10x60	10	512.380.11
40	90	10x60	10	512.400.11
42	90	10x60	10	512.420.11
45	90	10x50	10	512.450.11
48	90	10x50	10	512.480.11
50	90	10x50	10	512.500.11
55	90	10x50	5	512.550.11
58	90	10x50	5	512.580.11
60	90	10x50	5	512.600.11

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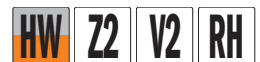
**TECHNICAL DETAILS:**

- Super strength steel.
- HW precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 HW negatively ground spurs [V2].
- Parallel shank.

**APPLICATION:**

used for drilling blind holes in solid wood, wood composites and plastic laminate materials.  
**Ideal for hinges.**

# 5-Piece Boring Bit Set for Hinges



## 512.001.01

The perfect set for hinge work and other related applications. Machined from special high speed steel with micrograin carbide tips, these bits are available in diameters of 15, 20, 25, 30 and 35mm. Safely packaged in a solid plastic box with glass front for easy storage and inventory.

**TECHNICAL DETAILS:**

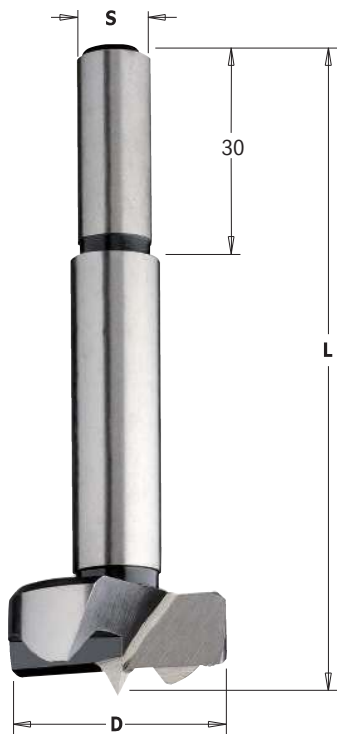
- Super strength steel.
- HW precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 HW negatively ground spurs [V2].
- Parallel shank.

**APPLICATION:**

used for drilling blind holes in solid wood, wood composites and plastic laminated materials.  
**Ideal for hinges.**

DESCRIPTION	S mm	L mm	BIT DIAMETER mm		ORDER NO. Right-hand rotation
5-Piece Boring Bit Set for Hinges	10	90	15-20-25-30-35	5	512.001.01

## Boring Bits with Parallel Shank



### 512

**SP Z2 V2 RH**

D mm	L mm	S mm		ORDER NO. Right-hand rotation
8	90	10x30	10	<b>512.081.31</b>
10	90	10x30	10	<b>512.101.31</b>
12	90	10x30	10	<b>512.121.31</b>
14	90	10x30	10	<b>512.141.31</b>
15	90	10x30	10	<b>512.151.31</b>
16	90	10x30	10	<b>512.161.31</b>
18	90	10x30	10	<b>512.181.31</b>
20	90	10x30	10	<b>512.201.31</b>
22	90	10x30	10	<b>512.221.31</b>
24	90	10x30	10	<b>512.241.31</b>
25	90	10x30	10	<b>512.251.31</b>
26	90	10x30	10	<b>512.261.31</b>
28	90	10x30	10	<b>512.281.31</b>
30	90	10x30	10	<b>512.301.31</b>
32	90	10x30	10	<b>512.321.31</b>
34	90	10x30	10	<b>512.341.31</b>
35	90	10x30	10	<b>512.351.31</b>
38	90	10x30	10	<b>512.381.31</b>
40	90	10x30	10	<b>512.401.31</b>
45	90	10x30	10	<b>512.451.31</b>
50	90	10x30	10	<b>512.501.31</b>

**TECHNICAL DETAILS:**

- SP steel.
- Precision balanced centre point.
- 2 spurs [V2].
- 2 precision ground cutting edges [Z2].
- Long-lasting cutting performance.
- Parallel shank.

**APPLICATION:**

used for drilling blind holes in softwood. **Ideal for hinges.**



## 5-Piece Boring Bit Set for Hinges



### 512.001.00

**SP Z2 V2 RH**

The perfect set for hinge work and other related applications. Machined from special high speed steel, these bits are available in diameters of 15, 20, 25, 30 and 35mm. Precisely ground, sharpened with round shanks and safely packaged in a solid plastic box with glass front for easy storage and inventory.

**TECHNICAL DETAILS:**

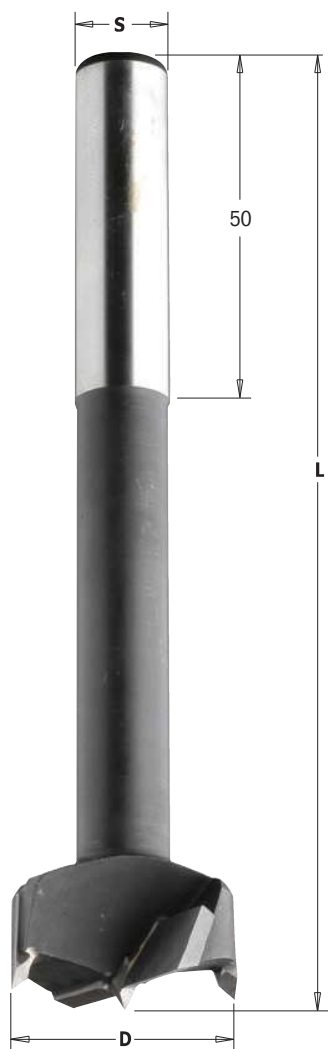
- SP steel.
- Precision balanced centre point.
- 2 spurs [V2].
- 2 precision ground cutting edges [Z2].
- Long-lasting cutting performance.

**APPLICATION:**

used for drilling blind holes in softwood. **Ideal for hinges.**

DESCRIPTION	S mm	L mm	BIT DIAMETER mm		ORDER NO. Right-hand rotation
5-Piece Boring Bit Set for Hinges	10	90	15-20-25-30-35	5	<b>512.001.00</b>

HW Z2 V2 RH



## 513

D mm	L mm	S mm		ORDER NO. Right-hand rotation
15	120	13	1	513.150.11
16	120	13	1	513.160.11
18	120	13	1	513.180.11
20	120	13	1	513.200.11
22	125	13	1	513.220.11
25	125	13	1	513.250.11
26	125	13	1	513.260.11
28	130	13	1	513.280.11
30	130	13	1	513.300.11
35	130	13	1	513.350.11
40	130	13	1	513.400.11
45	130	13	1	513.450.11
50	130	13	1	513.500.11
55	140	13	1	513.550.11
60	140	13	1	513.600.11

## 514

D mm	L mm	S mm		ORDER NO. Right-hand rotation
15	120	16	1	514.150.11
16	120	16	1	514.160.11
18	120	16	1	514.180.11
20	120	16	1	514.200.11
22	125	16	1	514.220.11
25	125	16	1	514.250.11
26	125	16	1	514.260.11
28	130	16	1	514.280.11
30	130	16	1	514.300.11
32	130	16	1	514.320.11
35	130	16	1	514.350.11
40	130	16	1	514.400.11
45	130	16	1	514.450.11
50	130	16	1	514.500.11
55	140	16	1	514.550.11
60	140	16	1	514.600.11

### TECHNICAL DETAILS:

- Super strength steel.
- HW precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 HW negatively ground spurs [V2].
- Parallel shank.

### APPLICATION:

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

**Ideal for hinges.**

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# Boring Bits with Parallel Shank



## 392

**HW Z2 V2 RH**

D mm	L mm	S mm		ORDER NO. Right-hand rotation
15	60	8	10	<b>392.150.11</b>
20	60	8	10	<b>392.200.11</b>
25	60	8	10	<b>392.250.11</b>
26	60	8	10	<b>392.260.11</b>
30	60	8	10	<b>392.300.11</b>
35	60	8	10	<b>392.350.11</b>
35	60	12,7	10	<b>392.351.11</b>
40	60	8	10	<b>392.400.11</b>

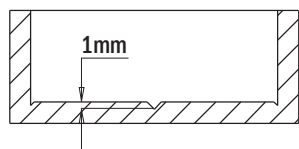
**TECHNICAL DETAILS:**

- Super strength steel.
- HW precision balanced centre point.
- 2 HW precision ground cutting edges [Z2].
- 2 HW negatively ground spurs [V2].
- Parallel shank.
- Right-hand rotation (RH).

**APPLICATION:**

for use on drilling machines and hand-held routers in solid wood, wood composites and plastic laminated materials.

**Ideal for hinges and blind holes.**



New construction with 1mm centre point

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# Mortise Chisel & Bit Sets



## 543

**HSS Z1 RH**

mm	D inches	mm	S inches		ORDER NO. Right-hand rotation
6,35	1/4	19	3/4	1	<b>543.064.51</b>
8	5/16	19	3/4	1	<b>543.079.51</b>
9,5	3/8	19	3/4	1	<b>543.095.51</b>
12,7	1/2	19	3/4	1	<b>543.127.51</b>
15,8	5/8	19	3/4	1	<b>543.158.51</b>
19	3/4	19	3/4	1	<b>543.190.51</b>

It's tough to beat the "old faithful" mortise and tenon joint for strength and accuracy, even with all the other joining options in the world of woodworking.

It isn't the easiest joint to make, but for sure it helps to have the best quality tools in your shop. That's why we've added a new selection of chisel and bit sets in all the popular sizes 6,35mm (1/4") to 19mm (3/4") diameter.

These sets are for use on any standard drill press mortising attachment of mortising machines.



Sample of Chisel Mortiser

SP RH



**529**

d mm	D mm	L mm	S mm	Z		ORDER NO. Right-hand rotation
8	18	140	13	4	5	<b>529.080.31</b>
10	20	140	13	4	5	<b>529.100.31</b>
12	24	140	13	4	5	<b>529.120.31</b>
14	26	140	13	4	5	<b>529.140.31</b>
15	27	140	13	4	5	<b>529.150.31</b>
16	28	140	13	4	5	<b>529.160.31</b>
18	30	140	13	4	5	<b>529.180.31</b>
20	32	140	13	4	5	<b>529.200.31</b>
22	34	140	13	5	5	<b>529.220.31</b>
25	37	140	13	5	5	<b>529.250.31</b>
30	42	140	13	5	5	<b>529.300.31</b>
32	44	140	13	5	5	<b>529.320.31</b>
35	47	160	16	6	2	<b>529.350.31</b>
40	52	160	16	6	2	<b>529.400.31</b>
45	57	160	16	6	2	<b>529.450.31</b>
50	62	160	16	6	2	<b>529.500.31</b>

d inches	D inches	L inches	S inches	Z		ORDER NO. Right-hand rotation
3/8	49/64	5-1/2	1/2	4	5	<b>529.095.31</b>
1/2	61/64	5-1/2	1/2	4	5	<b>529.127.31</b>
5/8	1-7/64	5-1/2	1/2	4	5	<b>529.158.31</b>
3/4	1-7/32	5-1/2	1/2	4	5	<b>529.191.31</b>
7/8	1-11/32	5-1/2	1/2	4	5	<b>529.222.31</b>
1	1-15/32	5-1/2	1/2	5	5	<b>529.254.31</b>
1-1/4	1-19/32	5-1/2	1/2	5	5	<b>529.317.31</b>
1-3/8	1-27/32	6-5/16	5/8	6	2	<b>529.349.31</b>
1-1/2	1-31/32	6-5/16	5/8	6	2	<b>529.381.31</b>
1-5/8	2-3/32	6-5/16	5/8	6	2	<b>529.413.31</b>
1-3/4	2-7/32	6-5/16	5/8	6	2	<b>529.445.31</b>
2	2-15/32	6-5/16	5/8	6	2	<b>529.508.31</b>

Use our D=16mm bushing to increase the 13mm shank (order no. 799.130.00 on page 395)

**TECHNICAL DETAILS:**

- SP steel.
- Long lasting cutter performance.

**APPLICATION:**

used to make plugs in hard and soft woods.

D mm	D inches	Max RPM Softwood	Max RPM Hardwood
< Ø16	5/8	1000	500
< Ø40	1-37/64	500	300
> Ø40	1-37/64	200	150

Plug Cutters



**530**

HSS Z4 RH

D mm	S		ORDER NO. Right-hand rotation
6,2	Ø21x14F.1"	1	<b>530.062.51</b>
8	Ø21x14F.1"	1	<b>530.080.51</b>
8,2	Ø21x14F.1"	1	<b>530.082.51</b>
10	Ø21x14F.1"	1	<b>530.100.51</b>
10,2	Ø21x14F.1"	1	<b>530.102.51</b>
12	Ø21x14F.1"	1	<b>530.120.51</b>
12,2	Ø21x14F.1"	1	<b>530.122.51</b>

**TECHNICAL DETAILS:**

- Super strength HSS steel.
- 4 precision ground cutting edges [Z4].
- Long lasting cutter performance.

**APPLICATION:**

used for cutting dowels.

**REMARK:**

available on request.



## 500.001/02/03

**SP RH**

We offer a wide range of boring bits and plug cutters in the most popular diameters. If you need to bore or to make plugs in soft-wood these sets are exactly what you need!



### 500.001.08 Boring Bit & Plug Cutter Set

SET CONTAINS	D mm	L mm	S mm	ORDER NO. Right-hand rotation
Boring Bit with Parallel Shank	8	90	10	<b>512.081.31</b>
Boring Bit with Parallel Shank	10	90	10	<b>512.101.31</b>
Boring Bit with Parallel Shank	12	90	10	<b>512.121.31</b>
Boring Bit with Parallel Shank	15	90	10	<b>512.151.31</b>
Plug Cutter	8	140	13	<b>529.080.31</b>
Plug Cutter	10	140	13	<b>529.100.31</b>
Plug Cutter	12	140	13	<b>529.120.31</b>
Plug Cutter	15	140	13	<b>529.150.31</b>

### 500.002.08 Boring Bit & Plug Cutter Set

SET CONTAINS	D mm	L mm	S mm	ORDER NO. Right-hand rotation
Boring Bit with Parallel Shank	16	90	10	<b>512.161.31</b>
Boring Bit with Parallel Shank	20	90	10	<b>512.201.31</b>
Boring Bit with Parallel Shank	25	90	10	<b>512.251.31</b>
Boring Bit with Parallel Shank	30	90	10	<b>512.301.31</b>
Plug Cutter	16	140	13	<b>529.160.31</b>
Plug Cutter	20	140	13	<b>529.200.31</b>
Plug Cutter	25	140	13	<b>529.250.31</b>
Plug Cutter	30	140	13	<b>529.300.31</b>

### 500.003.08 Boring Bit & Plug Cutter Set

SET CONTAINS	D mm	L mm	S mm	ORDER NO. Right-hand rotation
Boring Bit with Parallel Shank	15	90	10	<b>512.151.31</b>
Boring Bit with Parallel Shank	20	90	10	<b>512.201.31</b>
Boring Bit with Parallel Shank	25	90	10	<b>512.251.31</b>
Boring Bit with Parallel Shank	30	90	10	<b>512.301.31</b>
Plug Cutter	15	140	13	<b>529.150.31</b>
Plug Cutter	20	140	13	<b>529.200.31</b>
Plug Cutter	25	140	13	<b>529.250.31</b>
Plug Cutter	30	140	13	<b>529.300.31</b>

# Forstner Bits



toothed rim  $\geq \varnothing 25\text{mm}$



standard rim  $< \varnothing 25\text{mm}$

## 537

D mm	L mm	S mm		ORDER NO. Right-hand rotation
10	90	8	10	537.100.31
12	90	8	10	537.120.31
14	90	8	10	537.140.31
15	90	8	10	537.150.31
16	90	8	10	537.160.31
18	90	8	10	537.180.31
20	90	8	10	537.200.31
22	90	8	10	537.220.31
24	90	8	10	537.240.31
25	90	8	10	537.250.31
26	90	8	10	537.260.31
28	90	8	10	537.280.31
30	90	8	10	537.300.31
32	90	10	10	537.320.31
35	90	10	10	537.350.31
38	90	10	10	537.380.31
40	90	10	10	537.400.31
45	90	10	10	537.450.31
50	90	10	10	537.500.31
55	90	10	5	537.550.31
68	157	12,7	5	537.680.31

D inches	L inches	S inches		ORDER NO. Right-hand rotation
1/4	3-35/64	3/8	10	537.064.31
3/8	3-35/64	3/8	10	537.095.31
1/2	3-35/64	3/8	10	537.127.31
5/8	3-35/64	3/8	10	537.158.31
3/4	3-35/64	3/8	10	537.190.31
7/8	3-35/64	3/8	10	537.222.31
1	3-35/64	3/8	10	537.254.31
1-1/8	3-35/64	3/8	10	537.285.31
1-1/4	3-35/64	3/8	10	537.317.31
1-3/8	3-35/64	3/8	10	537.349.31
1-1/2	3-35/64	3/8	10	537.381.31
1-5/8	3-35/64	3/8	10	537.413.31
1-3/4	3-35/64	3/8	10	537.445.31
1-7/8	3-35/64	3/8	10	537.476.31
2	3-35/64	3/8	10	537.508.31
2-1/8	3-35/64	3/8	5	537.540.31

# TOOLBOX

Darbagaldi & Instrumenti

www.techno-debits.lv info@toolbox.lv

- Super strength SP steel.
- Precision balanced centre point.
- 2 spurs [V2].
- 2 precision ground cutting edges [Z2].
- Long-lasting cutting performance.

### APPLICATION:

used to drill precise flat bottom holes with no chipping in any softwood thickness.

## Forstner Bit Sets

We offer a wide range of Forstner bits in the most popular diameters. These bits are available separately or in beautiful wooden sets. The high performance stagger tooth design on the bits with larger diameters allows for sharp holes with straight sides and flat bottoms. Bits available for drill presses, electric and cordless drills. Suitable for working on any type of softwood.

- 537.000.04
- 537.000.05
- 537.000.07
- 537.000.12



## 537.000.16



DESCRIPTION	SHANK	BIT DIAMETER		ORDER NO. Right-hand rotation
5 pcs. Router Bit Set in clamshell	Ø8-10mm	Ø15-20-25-30-35mm	5	537.000.05
12 pcs. Router Bit Set in clamshell	Ø8-10mm	Ø10-12-14-15-16-18-20-22-25-26-30-35mm	6	537.000.12
4 pcs. Router Bit Set in clamshell	Ø3/8"	Ø1/4" - 1/2" - 3/4" - 1"	5	537.000.04
7 pcs. Router Bit Set in clamshell	Ø3/8"	Ø1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1"	6	537.000.07
16 pcs. Router Bit Set in plastic box	Ø3/8"	Ø1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1" - 1-1/8" - 1-1/4" - 1-3/8" - 1-1/2" - 1-5/8" - 1-3/4" - 1-7/8" - 2" - 2-1/8"	8	537.000.16



## 531

**HW** **Z2** **RH**

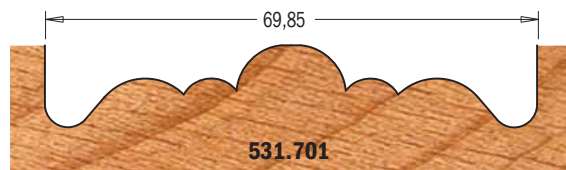
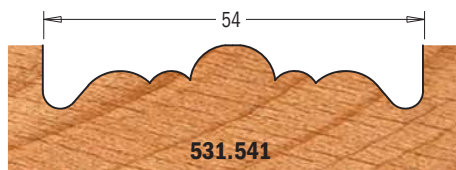
D mm	L mm	S mm	Max RPM		ORDER NO. Right-hand rotation
54	73,5	9,5	1500	10	<b>531.541</b>
54	71,3	9,5	1500	10	<b>531.542</b>
54	67,3	9,5	1500	10	<b>531.543</b>
54	72,3	9,5	1500	10	<b>531.544</b>
70	76,5	9,5	1000	5	<b>531.701</b>
70	74	9,5	1000	5	<b>531.702</b>

### TECHNICAL DETAILS:

- Super strength steel.
- 2 HW precision ground cutting edges [Z2].
- Parallel hexagonal shank.
- Right-hand rotation (RH).

### APPLICATION:

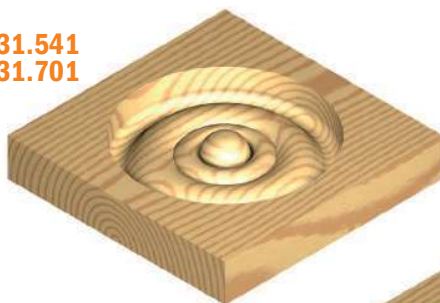
to be used on drill presses and drilling power tools at low RPMs (see table). We recommend clamping your workpiece mechanically during boring operations.



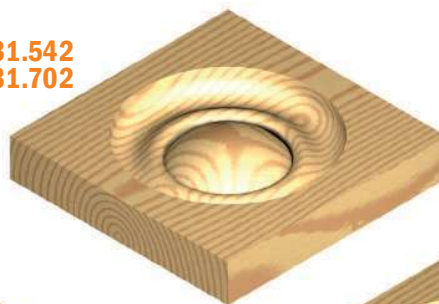
Drawings are 1:1 scale



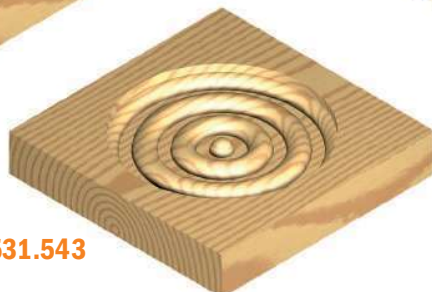
**531.541**  
**531.701**



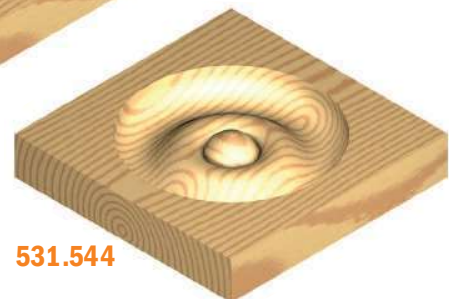
**531.542**  
**531.702**



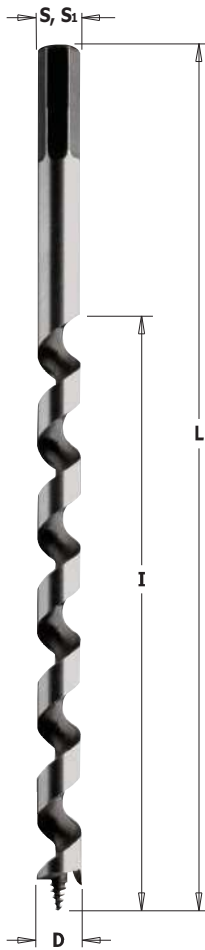
**531.543**



**531.544**



**HSS** **Z1** **V1** **RH**



## 542-535

D mm	I mm	L mm	S	S1 mm	RPM max		ORDER NO. Right-hand rotation
6	155	230	Hexagonal	6	800 ~ 1400	1	<b>542.060.51</b>
8	155	230	Hexagonal	6,35	800 ~ 1400	1	<b>542.080.51</b>
10	155	230	Hexagonal	9	600 ~ 1200	1	<b>542.100.51</b>
12	155	230	Hexagonal	12	600 ~ 1100	1	<b>542.120.51</b>
14	155	230	Hexagonal	12	600 ~ 1000	1	<b>542.140.51</b>
16	155	230	Hexagonal	12	500 ~ 900	1	<b>542.160.51</b>
18	155	230	Hexagonal	12	500 ~ 800	1	<b>542.180.51</b>
20	155	230	Hexagonal	12	400 ~ 700	1	<b>542.200.51</b>
8	360	460	Hexagonal	6,55	800 ~ 1000	1	<b>535.080.51</b>
10	360	460	Hexagonal	9	600 ~ 1000	1	<b>535.100.51</b>
12	360	460	Hexagonal	12	600 ~ 1000	1	<b>535.120.51</b>
14	360	460	Hexagonal	12	500 ~ 900	1	<b>535.140.51</b>
16	360	460	Hexagonal	12	500 ~ 900	1	<b>535.160.51</b>
18	360	460	Hexagonal	12	450 ~ 800	1	<b>535.180.51</b>
20	360	460	Hexagonal	12	400 ~ 700	1	<b>535.200.51</b>

**TECHNICAL DETAILS:**

- Super strength HSS steel.
- Precision balanced centre point.
- 1 precision ground cutting edge [Z1].
- 1 spiral flute.
- 1 spur [V1].
- Long-lasting cutting performance.

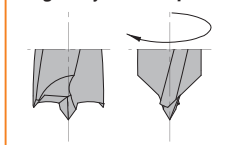
**APPLICATION:**

used for drilling deep holes in soft and hardwood.



541

**Negatively Ground Spurs**



## Brad Point Bits

### 540

**HW** **Z2** **V2** **RH**

D mm	L mm	S mm		ORDER NO. Right-hand rotation
5	90	8x30	1	<b>540.050.11</b>
6	90	8x30	1	<b>540.060.11</b>
8	90	8x30	1	<b>540.080.11</b>
10	90	8x30	1	<b>540.100.11</b>
12	90	8x30	1	<b>540.120.11</b>

**TECHNICAL DETAILS:**

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

**APPLICATION:**

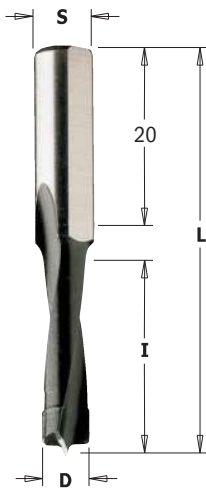
for use on hand-held router to drill blind holes in solid wood, wood composites or plastic laminates.

### 541 Stop Collars

D mm	PACK QTY.	ORDER NO.		
5	10	<b>541.050.00</b>	990.002.00	991.062.00
6	10	<b>541.060.00</b>	990.002.00	991.062.00
8	10	<b>541.080.00</b>	990.002.00	991.062.00
10	10	<b>541.100.00</b>	990.002.00	991.062.00
12	10	<b>541.120.00</b>	990.002.00	991.062.00

Stop collars with precision clamping nut and key for quick and easy assembly.

# Dowel Drills for Mafell® & Hand-Held Routers



## 312

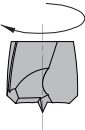


D mm	I mm	L mm	S mm		ORDER NO. Right-hand rotation
4	30	58	8	10	<b>312.040.11</b>
5	30	58	8	10	<b>312.050.11</b>
6	30	58	8	10	<b>312.060.11</b>
8	30	58	8	10	<b>312.080.11</b>
10	30	58	8	10	<b>312.100.11</b>
12	30	58	8	10	<b>312.120.11</b>
14	30	58	8	10	<b>312.140.11</b>
16	30	58	8	10	<b>312.160.11</b>

These drill bits are made with high-strength steel in order to work with high speed rotation. They are perfect for boring all materials like solid wood, wood and composites, plastic and laminated with **hand-held routers and MAFELL® machine model DD40.**



Sharpening with chamfer



### TECHNICAL DETAILS:

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

# Router Bits for Domino® Joining Machines by Festool®



## 380



D mm	I mm	L mm	S mm	FESTOOL®		ORDER NO. Right-hand rotation
• 4	11	38	M6x0,75	DF500	10	<b>380.040.11</b>
5	20	49	M6x0,75	DF500	10	<b>380.050.11</b>
6	28	49	M6x0,75	DF500	10	<b>380.060.11</b>
8	28	49	M6x0,75	DF500	10	<b>380.080.11</b>
10	28	49	M6x0,75	DF500	10	<b>380.100.11</b>
8	50	90	M8x1	DF700	10	<b>380.081.11</b>
10	70	90	M8x1	DF700	10	<b>380.101.11</b>
12	70	90	M8x1	DF700	10	<b>380.121.11</b>
14	70	90	M8x1	DF700	10	<b>380.141.11</b>

### • HWM

### TECHNICAL DETAILS:

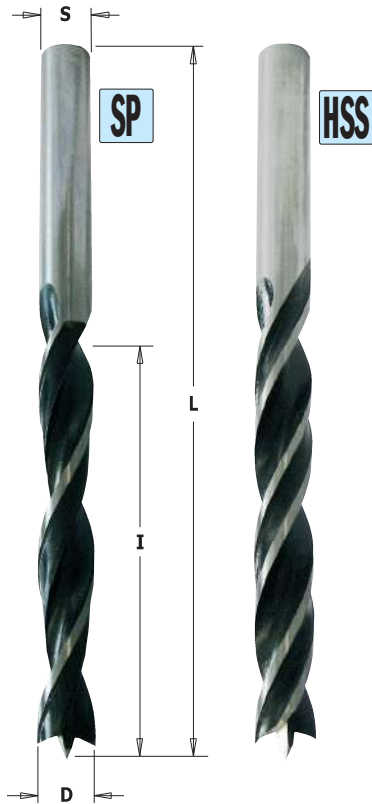
- Premium quality super-strength steel.
- Spiral portion coating with black P.T.F.E.
- Extra-fine micrograin carbide spiral portion.
- 2 cutting edges [Z2].
- 2 spiral flutes.

### APPLICATION:

for use on "Domino®" machines to rout slots on solid wood and wood composites.



# Brad Point Bits



## 517

SP HSS Z2 RH

D mm	I mm	L mm	S mm		ORDER NO. Right-hand rotation	SP	ORDER NO. Right-hand rotation	HSS
3	33	61	3	1	517.030.31		517.030.51	
4	43	75	4	1	517.040.31		517.040.51	
5	52	86	5	1	517.050.31		517.050.51	
6	57	93	6	1	517.060.31		517.060.51	
7	69	109	7	1	517.070.31		517.070.51	
8	75	117	8	1	517.080.31		517.080.51	
9	80	120	9	1	517.090.31		517.090.51	
10	80	120	10	1	517.100.31		517.100.51	
11	89	142	8	1	517.110.31		517.110.51	
12	96	151	8	1	517.120.31		517.120.51	
13	96	151	8	1	517.130.31		517.130.51	
14	96	151	10	1	517.140.31		517.140.51	
15	100	160	10	1	517.150.31		517.150.51	
16	100	160	10	1	517.160.31		517.160.51	
18	130	180	10	1	517.180.31			
20	135	200	10	1	517.200.31			

**SP**

**TECHNICAL DETAILS:**

- Super strength SP steel.
- Precision balanced center point.
- 2 precision ground cutting edges [Z2].
- 2 flutes.

**APPLICATION:**

used for drilling holes in softwood.

**HSS**

**TECHNICAL DETAILS:**

- Super strength HSS steel.
- Precision balanced center point.
- 2 precision ground cutting edges [Z2].
- 4 flutes.

**APPLICATION:**

used for drilling holes in soft and hardwood.

**Long-lasting cutting performance.**

# Brad Point Bit Sets



## 517

HSS SP Z2 RH

**5-Piece Brad Point Bit Set**

An economical collection of the five most popular sized brad points - 4, 5, 6, 8 and 10mm.

Safely packaged in a reusable plastic case for easy storage and access.

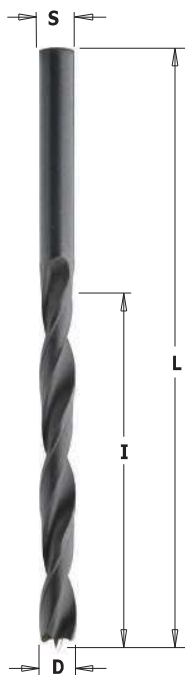
**8-Piece Brad Point Bit Set**

A complete collection of the most popular brad points in the most requested sizes - 3, 4, 5, 6, 7, 8, 9 and 10mm.

Safely packaged in a reusable plastic case for easy storage and access.

DESCRIPTION	Z	BIT DIAMETER		ORDER NO. Right-hand rotation
5-Pcs. HSS Brad Point Set	4 flutes	(Ø4-5-6-8-10mm)	50	517.001.01
5-Pcs. SP Brad Point Set	2 flutes	(Ø4-5-6-8-10mm)	50	517.001.00
8-Pcs. HSS Brad Point Set	4 flutes	(Ø3-4-5-6-7-8-9-10mm)	30	517.002.01
8-Pcs. SP Brad Point Set	2 flutes	(Ø3-4-5-6-7-8-9-10mm)	30	517.002.00

# Brad Point Bits



## 516

HSS Z2 RH LH

D mm	I mm	L mm	S mm		ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
2	24	49	2	10	516.020.51	516.020.52
2,5	30	57	2,5	10	516.025.51	516.025.52
3	33	61	3	10	516.030.51	516.030.52
3,5	39	70	3,5	10	516.035.51	516.035.52
4	43	75	4	10	516.040.51	516.040.52
4,5	47	80	4,5	10	516.045.51	516.045.52
5	52	86	5	10	516.050.51	516.050.52
5,5	57	93	5,5	10	516.055.51	516.055.52
6	57	93	6	10	516.060.51	516.060.52
7	69	109	7	10	516.070.51	516.070.52
8	75	117	8	10	516.080.51	516.080.52
9	81	125	9	10	516.090.51	516.090.52
10	87	133	10	10	516.100.51	516.100.52

**TECHNICAL DETAILS:**

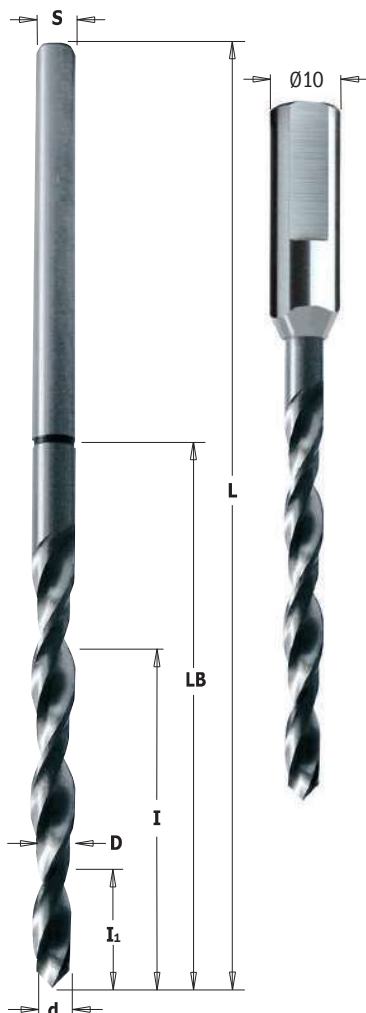
- Super strength steel.
- Precision balanced centre point.
- 2 precision ground cutting edges [Z2].
- 2 spiral flutes.
- Common shank and cutting diameter (S=D).

**APPLICATION:**

used for drilling holes in soft and hardwood.

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# Drill Bits for ANUBA Hinges



## 515

HSS Z2 RH

ANUBA no.	d mm	D-S mm	I1 mm	I mm	LB mm	L mm		ORDER NO. Right-hand rotation
9,5	3,8	5,2	18	56	74	132	1	515.095.51
11	4,8	5,7	17	60	76	145	1	515.110.51
13	5,8	6,7	18	68	83	155	1	515.130.51
14,5	6,3	7,2	19	75	89	165	1	515.145.51
16	6,7	7,7	25	85	100	165	1	515.160.51
18	7,7	8,7	25	85	102	165	1	515.180.51
20	8,8	9,8	25	90	104	165	1	515.200.51

**Parallel Shank with Driving Flat**

ANUBA no.	d mm	D mm	I mm	LB mm	S mm	L mm		ORDER NO. Right-hand rotation
9	3,8	5	20	40	10x35	75	1	515.091.51
11	4,2	5,7	20	45	10x35	80	1	515.111.51
13	5,2	6,5	15	50	10x35	85	1	515.131.51
14	5,5	7	15	55	10x35	90	1	515.141.51
16	6	7,7	15	60	10x35	95	1	515.161.51
18	6,6	8,2	20	70	10x35	105	1	515.181.51
20	7,2	8,7	20	80	10x35	115	1	515.201.51

**TECHNICAL DETAILS:**

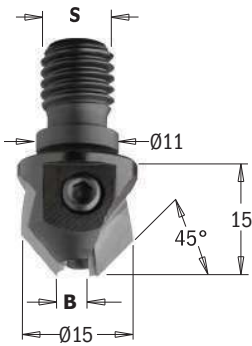
- Super strength steel.
- HSS steel.
- 2 HSS precision ground cutting edges [Z2].
- 2 spiral flutes.

**APPLICATION:**

used for drilling blind holes in soft and hardwood.



## Countersinks with Threaded Shank



**350**

**HW** **Z2** **RH** **LH**

B mm	S mm			ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
3	M10/Ø11x4		10	<b>350.030.11</b>	<b>350.030.12</b>
4	M10/Ø11x4		10	<b>350.040.11</b>	<b>350.040.12</b>
5	M10/Ø11x4		10	<b>350.050.11</b>	<b>350.050.12</b>

**TECHNICAL DETAILS:**

- Super strength steel.
- 2 HW precision ground cutting edges [Z2].
- Quick and easy drill change.

Spare parts



**APPLICATION:**

for use with spiral bits featuring parallel shank.

## Countersinks with Threaded Shank



**351**

B mm	S mm			ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
3	M10/30°		10	<b>351.030.11</b>	<b>351.030.12</b>
4	M10/30°		10	<b>351.040.11</b>	<b>351.040.12</b>
5	M10/30°		10	<b>351.050.11</b>	<b>351.050.12</b>

**TECHNICAL DETAILS:**

- Super strength steel.
- 2 HW precision ground cutting edges [Z2].
- Quick and easy drill change.

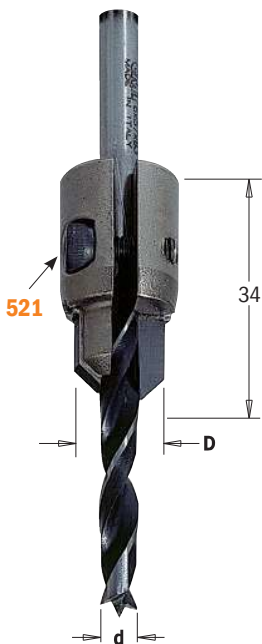
Spare parts



**APPLICATION:**

for use with spiral bits featuring parallel shank.

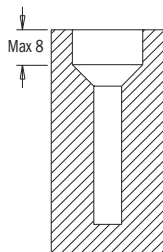
## Adjustable Countersink



**521.001**

**HW** **Z2** **RH**

d mm	D mm		ORDER NO. Right-hand rotation	Spare parts
3 ~ 7	11 ~ 15	10	<b>521.001.11</b>	990.061.00  991.067.00



Twist drills	Overall diameter
Ø3	Ø11
Ø4	Ø12
Ø5	Ø13
Ø6	Ø14
Ø7	Ø15

**TECHNICAL DETAILS:**

- Premium quality HW.
- 2 HW precision ground cutting edges [Z2].
- Quick and easy drill change.

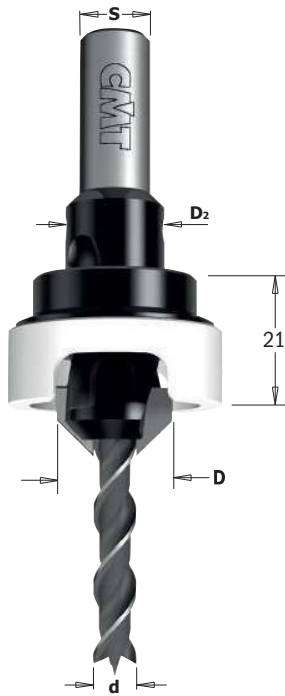
**APPLICATION:**

for use with spiral bits featuring parallel shank.  
**Twist drills not included.**

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## Drill Bits with 45° Countersink Set

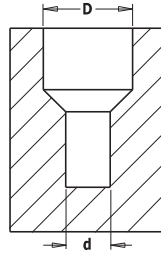


### 521A

**HW Z2 RH**

d mm	D mm	D <sub>2</sub> mm	A	S mm	ORDER NO.	Spare parts
3	12	10	45°	8	<b>521.312.11A</b>	521.312.11 517.030.51 541.101.00
4	12	10	45°	8	<b>521.412.11A</b>	521.412.11 517.040.51 541.101.00
5	16	14	45°	10	<b>521.516.11A</b>	521.516.11 517.050.51 541.141.00
6	16	14	45°	10	<b>521.616.11A</b>	521.616.11 517.060.51 541.141.00

Spare parts 990.014.00 Screw  
991.060.00 Hex key



#### TECHNICAL DETAILS:

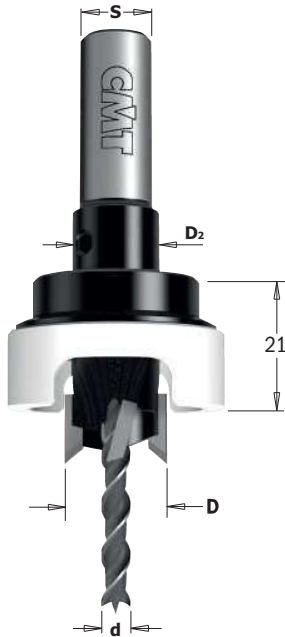
- Super strength steel.
- Countersink: 2 HW precision ground cutting edges [Z2].

#### APPLICATION:

used for drilling holes in soft, hardwood and wood composites.

Stop collars with precision clamping nut for quick and easy assembly.  
The Delrin® protection sleeve lets you work without leaving marks on the workpiece.

## Drill Bits with 90° Countersink Set

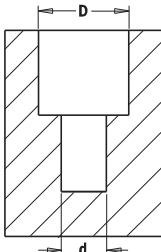


### 515A

**HW Z2 V2 RH**

d mm	D mm	D <sub>2</sub> mm	S mm	ORDER NO.	Spare parts
4	12	10	10	<b>515.412.11A</b>	515.412.11 517.040.51 541.101.00
4	14	12	10	<b>515.414.11A</b>	515.414.11 517.040.51 541.121.00
5	15	14	10	<b>515.515.11A</b>	515.515.11 517.050.51 541.141.00
6	14	12	10	<b>515.614.11A</b>	515.614.11 517.060.51 541.121.00
6	15	14	10	<b>515.615.11A</b>	515.615.11 517.060.51 541.141.00

Spare parts 990.014.00 Screw  
991.060.00 Hex key



#### TECHNICAL DETAILS:

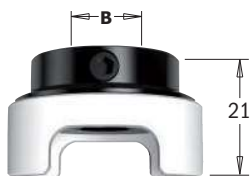
- Super strength steel.
- Countersink: 2 HW precision ground cutting edges [Z2].
- Countersink: 2 HW negatively ground spurs [V2].

#### APPLICATION:

used for drilling holes in soft, hardwood and wood composites.

Stop collars with precision clamping nut for quick and easy assembly.  
The Delrin® protection sleeve lets you work without leaving marks on the workpiece.

## Stop Collars with Delrin® Sleeve



### 541

B mm	ORDER NO.	Spare parts
10	<b>541.101.00</b>	990.014.00 991.060.00
12	<b>541.121.00</b>	990.014.00 991.060.00
14	<b>541.141.00</b>	990.014.00 991.060.00

Stop collars with precision clamping nut for quick and easy assembly.  
The Delrin® protection sleeve lets you work without leaving marks on the workpiece.

## 45° Countersink with Parallel Shank

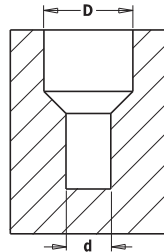


**521**



d mm	D mm	D <sub>2</sub> mm	A	S mm		ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation	Spare parts 
3	12	10	45°	8	10	<b>521.312.11</b>	<b>521.312.12</b>	990.014.00
4	12	10	45°	8	10	<b>521.412.11</b>	<b>521.412.12</b>	990.014.00
5	16	14	45°	10	10	<b>521.516.11</b>	<b>521.516.12</b>	990.014.00
6	16	14	45°	10	10	<b>521.616.11</b>	<b>521.616.12</b>	990.014.00

Spare parts 991.060.00 2mm hex key



**TECHNICAL DETAILS:**

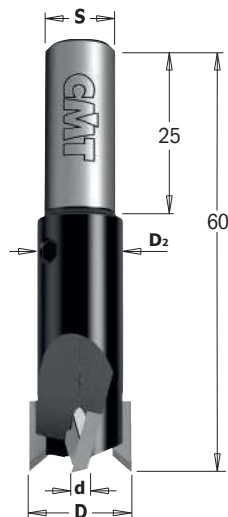
- Super strength steel.
- 2 HW precision ground cutting edges [Z2].

**APPLICATION:**

for use with spiral bits featuring parallel shank.



## 90° Countersink with Parallel Shank

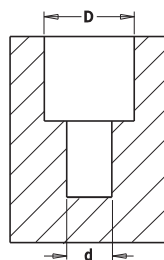


**515**



d mm	D mm	D <sub>2</sub> mm	A	S mm		ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation	Spare parts 
4	12	10	90°	10	10	<b>515.412.11</b>		990.014.00
4	14	12	90°	10	10	<b>515.414.11</b>		990.014.00
5	15	14	90°	10	10	<b>515.515.11</b>		990.014.00
6	14	12	90°	10	10	<b>515.614.11</b>		990.014.00
6	15	14	90°	10	10	<b>515.615.11</b>		990.014.00

Spare parts 991.060.00 2mm hex key



**TECHNICAL DETAILS:**

- Super strength steel.
- 2 HW precision ground cutting edges [Z2].
- 2 HW negatively ground spurs [V2].

**APPLICATION:**

for use with spiral bits featuring parallel shank.

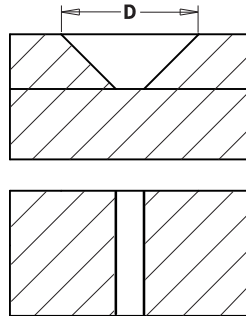
## 90° Countersink with Parallel Shank



**521**

HWM Z3 RH

D mm	I mm	L mm	S mm	Box	ORDER NO. Right-hand rotation
19,5	9	70	10x48	10	<b>521.002.11</b>

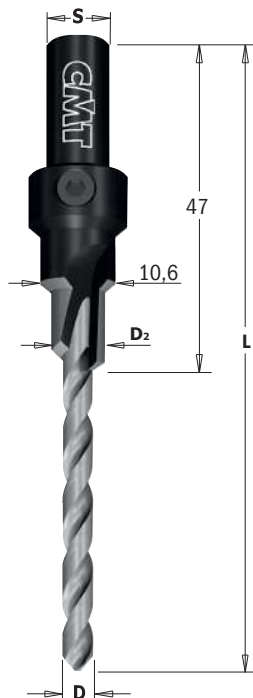


**TECHNICAL DETAILS:**

- For making 90° countersunk blind holes accepting flat-head fasteners that sit flush with the surface.
- 3 wear-resistant precision ground cutting edges providing a smooth finish on hardened materials.
- Solid carbide tool that is harder than cobalt steel, providing a longer tool life at higher speeds.
- Parallel shank to accommodate most drill chucks.
- Suitable for wood, wood-based, non-ferrous materials and metal.

For drilling use bits serie **516** or **517**

## Drill Bit with Countersink for Screw Joints



**515**

SP Z1 RH

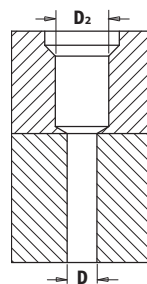
D mm	D2 mm	L mm	S mm	Box	ORDER NO. Right-hand rotation
4,2	7,6	87	9	1	<b>515.042.31</b>
5	7,6	93,7	9	1	<b>515.050.31</b>

**TECHNICAL DETAILS:**

- Super strength steel.
- SP steel.
- 1 SP precision ground cutting edge [Z1].
- 1 spiral flute.

**APPLICATION:**

used for drilling blind holes in soft and hardwood.



**TOOLBOX**  
Darbagaldi & Instrumenti  
[www.TOOLBOX.lv](http://www.TOOLBOX.lv) [info@toolbox.lv](mailto:info@toolbox.lv)

# FAST X4 SYSTEM: THE HOLE SAW REVOLUTION!

CMT's innovative system offers great advantages to all professionals!

## X1 FAST LOCK

### ALL IN ONE CLICK!

We developed a unique patented Fast Lock System to quickly change between sizes and types in seconds!

It is the only system that allows the hole saw and the pilot drill to be changed without tools.



## X2 FAST DRILL

### FAST DRILLING IN ALL CONDITIONS!

Our hole saws have unique body geometry and teeth sharpening which provides fast, precise drilling at Xtreme angles.

- pre-drill at the desired angle
- push the hole saw forward back in position and complete the hole.



## X3 FAST BORE ENLARGEMENT

### UNIQUE SOLUTION FOR BORE ENLARGEMENT!

CMT's has a unique and fast solution to enlarge your bores. Our innovative pilot drill bit can fit two hole saws, allowing you to enlarge a hole in seconds.



## X4 FAST PLUG REMOVAL

### EASY PLUG REMOVAL IN ONE CLICK!

No more screwdrivers or tools!

The plug is effortlessly removed by reversing the pilot drill bit.





# HOLE SAWS



PRODUCTS	PAGE
Tungsten Carbide-Tipped	340-341
Tungsten Carbide-Tipped Long	342-343
Tungsten Carbide-Tipped with Countersink	343
Bi-Metal Plus 8% Cobalt	344-345
Diamond Dry	346-348
Hole Saw Sets	349



Join us on our



# FASTX4 SYSTEM: THE HOLE SAW REVOLUTION!

The innovative patented FASTX4 system makes the hole saw arbor obsolete. These hole saws have been specifically designed to ensure maximum productivity, lifetime and performance in all materials. CMT offers a professional range for electricians, carpenters, builders, kitchen fitters and all related heating, ventilation and plumbing trades.

## SERIES 550 TUNGSTEN CARBIDE-TIPPED SERIES 553 TUNGSTEN CARBIDE-TIPPED LONG



**5X**  
FASTER

**10X**  
LONGER LIFE



## SERIES 551 BI-METAL PLUS 8% COBALT



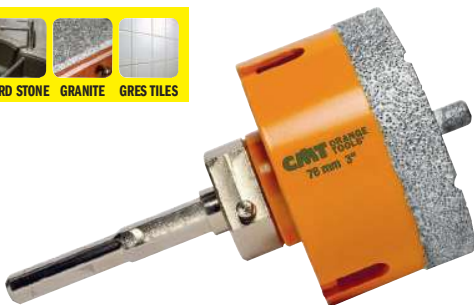
**2X**  
LONGER LIFE



## SERIES 552 DIAMOND DRY



**10X**  
LONGER LIFE



### LONG LASTING CONSTRUCTION GRADE CARBIDE.

A special formulated construction grade carbide is used for the cutting teeth, which provides 10 times longer cutting life.

Tungsten carbide-tipped multi-purpose hole saws are designed for use in a wide variety of materials such as soft and hardwoods, chipboard, plywood, MDF, plastic, gypsum/plasterboard, soft tiles (surface hardness  $\leq 6$  Mohs), solid brick, brick with cavities, aerated concrete block, lightweight aggregate block, breeze block and soft density lime-sandstone building block (max 30 N/mm<sup>2</sup> hardness).



### BI-METAL PLUS 8% COBALT

Premium bi-metal with 8% cobalt provides Xtreme results in performance and up to 50% longer lifetime than the competition.

Special tooth geometry with regular pitch provides a smoother cut and better chip clearance preventing clogging and heat build-up. Teeth are alternate & side set to minimize binding and friction requiring less feed pressure. Ideal for mild steel (up to 1000 N/mm<sup>2</sup> strength), stainless steel, non-ferrous metal, aluminium, cast iron, copper and galvanized sheet metal.



### DIAMOND GRIT PREMIUM GRADE

Very well-shaped and extremely strong cubo-octahedral inclusion-free heat-resistant crystals to deliver fast clean cuts up to 10 times longer life.

Diamond dry hole saw with continuous edge have been specially developed for professionals that need to drill in extremely hard materials such as tiles (ceramic, gres, etc.), hard stone (granite, marble, etc.), artificial stone (Okite®, Silestone®, etc.), where it is increasingly difficult to drill with conventional hole saws. These hole saws guarantee excellent performance and superior lifetime even in the hardest materials.

## EYE-CATCHING PACKAGING



03.01.0297 (empty box)



03.01.0296 (empty box)



Teeth are protected with heat shrink wrap film

MATERIAL		SERIE 550-553	SERIE 551	SERIE 552	TIPS
Soft and hardwood		>500 holes	<30 holes		
Plywood, table top		>500 holes	<30 holes		
MDF, chipboard, veneered		>500 holes	<30 holes		
Laminated, Trespa®, HPL		>500 holes	<10 holes		
Gypsum and plasterboard		>500 holes	<50 holes		
Fibercement boards, Eternit®		>50 holes	<10 holes		
Sandwich materials			50~75 holes		
Plastic		>100 holes	<20 holes		
Fiberglass		50~100 holes			
Acrylic glass		>100 holes			
Roofing and soft tiles		>50 holes			Not suitable for ceramic tiles
Solid bricks, masonry		>50 holes			
Perforated bricks		>50 holes			
Lime bricks		>50 holes			
Porous and lightweight concrete		>500 holes	<20 holes		
Metals and thin sheet metals			10~40 holes		Use coolant oil
Non-ferrous metals			50~75 holes		Use coolant oil
Aluminium			50~75 holes		Use coolant oil
Stainless steel			30~50 holes		Use coolant oil. Low speed.
Cast iron			5~10 holes		Use coolant oil
Copper, galvanized sheet metal, brass			50~75 holes		Use coolant oil
Tiles (porcelain, gres, quarry)				10~50 holes	Reapply lubricating wax on diameters ranging from 8mm to 16mm
Hard stone (granite, marble), Okite				10~50 holes	Reapply lubricating wax on diameters ranging from 8mm to 16mm

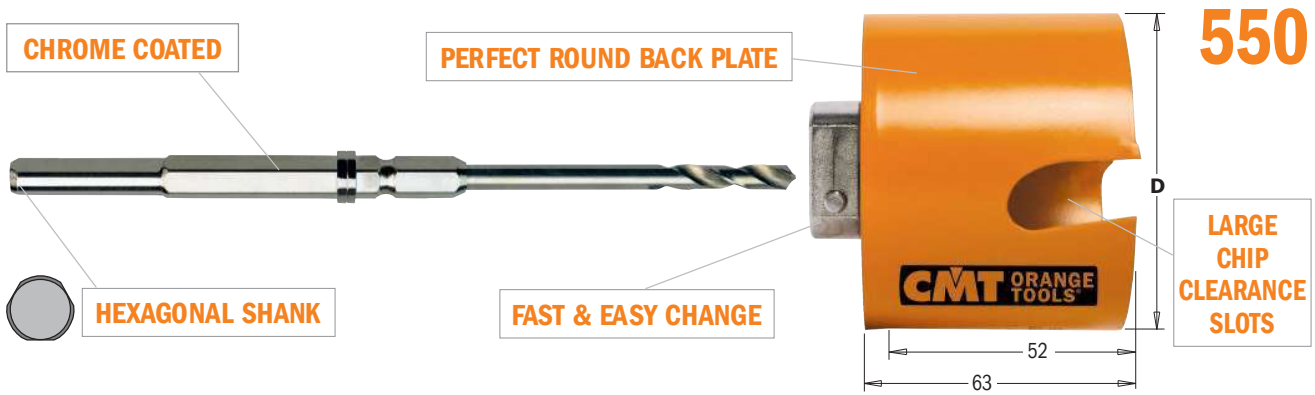
The number of holes is approximate. Material type, thickness and speed can affect such performance.

Examples of applications based on diameter and user (may vary from country to country)

Diameter in mm	19	22	25	30	35	40	44	48	51	54	57	60	64	68	70	76	83	86	92	102	105	127	152	User	
Fitted light	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Electrician	
Cable feedthrough box				•	•							•							•						
Switch boxes													•												
Plug sockets														•											
Junction boxes															•	•									
Distributor boxes																	•	•							
Air conditioning pipes																				•	•			Heating fitter	
Sanitary and heating pipes	•		•	•	•																				Plumber and heating fitter
Sanitary, drain and water pipes (insulated)						•	•	•																	



# FAST X4 Multi-Purpose Hole Saws



**LONG LASTING CONSTRUCTION GRADE CARBIDE.**  
Cutting teeth are made of a special formulated construction grade carbide which provides a longer cutting life.



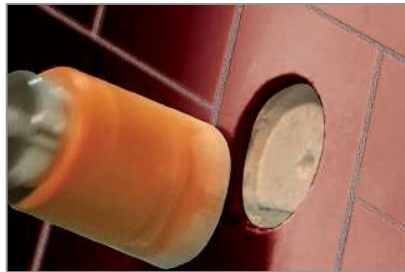
**SECURED TOOTH TECHNOLOGY**  
As a result of the latest technology, teeth are secured to prevent any breakage during impact with hard materials.



The plug is effortlessly removed thanks to the innovative slots

## MATERIALS

- soft, hardwood and plywood
- chipboard, MDF, veneered, laminated and table top (pre-drill the laminate/melamine by using left-hand rotation for clean finishing)
- gypsum, plasterboard, fibercement board, Eternit®
- plastics (Trespa®, PVC, nylon, polyester)
- fiberglass and acrylic glass
- soft tiles (surface hardness  $\leq 6$  Mohs), solid bricks and bricks with cavities, aerated concrete blocks, lightweight aggregate blocks and breeze blocks, soft density lime-sandstone building blocks (max 30 N/mm<sup>2</sup> hardness); for hardness  $>30$  N/mm<sup>2</sup> use the diamond dry hole saws.



Soft tiles (surface hardness  $\leq 6$  Mohs)



Wood & MDF



Trespa® & Plastic



Plasterboard



Soft bricks



Lime bricks



Use the recommended speeds to get optimum lifetime. The speed affects the hole quality.  
Always pre-drill with the center drill to achieve best results.  
The percussion/hammer action mode must be turned off when using these hole saws.





mm	D inches	Z	WOOD & Mdf RPM	PVC & FIBERGLASS RPM	MASONRY, BRICK RPM	SOFT TILES RPM	S		ORDER NO.
19	3/4	1	1.600	1.000	1.000	640	Hexagonal	10	550-019
20	13/16	1	1.600	1.000	1.000	640	Hexagonal	10	550-020
22	7/8	1	1.460	1.000	1.000	580	Hexagonal	10	550-022
25	1	1	1.280	1.000	1.000	510	Hexagonal	10	550-025
29	1-1/8	1	1.100	940	940	440	Hexagonal	10	550-029
30	1-3/16	1	1.070	910	910	430	Hexagonal	10	550-030
32	1-1/4	1	1.000	850	850	400	Hexagonal	10	550-032
35	1-3/8	1	920	780	780	370	Hexagonal	10	550-035
38	1-1/2	2	840	720	720	340	Hexagonal	10	550-038
40	1-9/16	2	800	680	680	320	Hexagonal	10	550-040
44	1-3/4	2	730	620	620	290	Hexagonal	10	550-044
48	1-7/8	2	680	580	580	270	Hexagonal	10	550-048
51	2	3	630	540	540	250	Hexagonal	10	550-051
52	2-1/16	3	620	530	530	250	Hexagonal	10	550-052
54	2-1/8	3	590	510	510	240	Hexagonal	10	550-054
56	2-3/16	3	570	490	490	230	Hexagonal	10	550-056
57	2-1/4	3	560	480	480	220	Hexagonal	10	550-057
60	2-3/8	3	530	460	460	210	Hexagonal	10	550-060
64	2-1/2	3	500	430	430	200	Hexagonal	10	550-064
65	2-9/16	3	500	430	430	200	Hexagonal	10	550-065
68	2-11/16	3	470	400	400	190	Hexagonal	10	550-068
70	2-3/4	3	460	390	390	180	Hexagonal	10	550-070
73	2-7/8	3	440	370	370	180	Hexagonal	10	550-073
76	3	3	420	360	360	170	Hexagonal	10	550-076
79	3-1/8	3	410	350	350	160	Hexagonal	10	550-079
80	3-5/32	3	400	340	340	160	Hexagonal	10	550-080
82	3-15/64	3	390	330	330	160	Hexagonal	10	550-082
83	3-1/4	3	390	330	330	150	Hexagonal	10	550-083
89	3-1/2	3	360	310	310	140	Hexagonal	10	550-089
92	3-5/8	3	350	300	300	140	Hexagonal	10	550-092
102	4	5	310	270	270	130	Hexagonal	5	550-102
105	4-1/8	5	310	260	260	120	Hexagonal	5	550-105
108	4-1/4	5	300	250	250	120	Hexagonal	5	550-108
111	4-3/8	5	290	250	250	120	Hexagonal	5	550-111
114	4-1/2	5	280	240	240	110	Hexagonal	5	550-114
118	4-5/8	5	280	240	240	110	Hexagonal	2	550-118
127	5	5	250	220	220	100	Hexagonal	2	550-127
133	5-1/4	5	240	210	210	100	Hexagonal	2	550-133
152	6	5	210	180	180	80	Hexagonal	2	550-152
160	6-9/32	7	200	150	150	100	Hexagonal	2	550-160
168	6-5/8	7	200	150	150	120	Hexagonal	2	550-168
185	7-1/4	7	200	150	150	120	Hexagonal	2	550-185
210	8-1/4	7	200	150	150	120	Hexagonal	1	550-210
225	8-7/8	9	160	120	120	95	Hexagonal	1	550-225
260	10-1/4	9	150	110	110	80	Hexagonal	1	550-260
270	10-5/8	9	140	100	100	70	Hexagonal	1	550-270

**550-HS1** For  $\varnothing 20-30\text{mm}$  (25/32" - 1-3/16"). Hexagonal shank for 10mm (25/64") chuck, HSS center drill, total length 180mm (7-5/64").



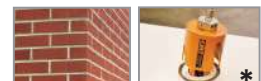
**550-HW1** For  $\varnothing 20-30\text{mm}$  (25/32" - 1-3/16"). Hexagonal shank for 10mm (25/64") chuck, HW center drill, total length 180mm (7-5/64").



**550-HS2** For  $\varnothing 32\text{mm}$  (1-1/4") and above. Hexagonal shank for 13mm (1/2") chuck, HSS center drill, total length 180mm (7-5/64").



**550-HW2** For  $\varnothing 32\text{mm}$  (1-1/4") and above. Hexagonal shank for 13mm (1/2") chuck, HW center drill, total length 180mm (7-5/64").



**550-DB1** Adapter for easy bore enlargement and plug removal. For use with hole saws having different hexagonal shank sizes. Hexagonal shank 13mm (1/2").



\* Bore enlargement: feasible with hole saws with 9mm minimum difference between largest and smallest diameter.



# FASTX4 Multi-Purpose Long Hole Saws

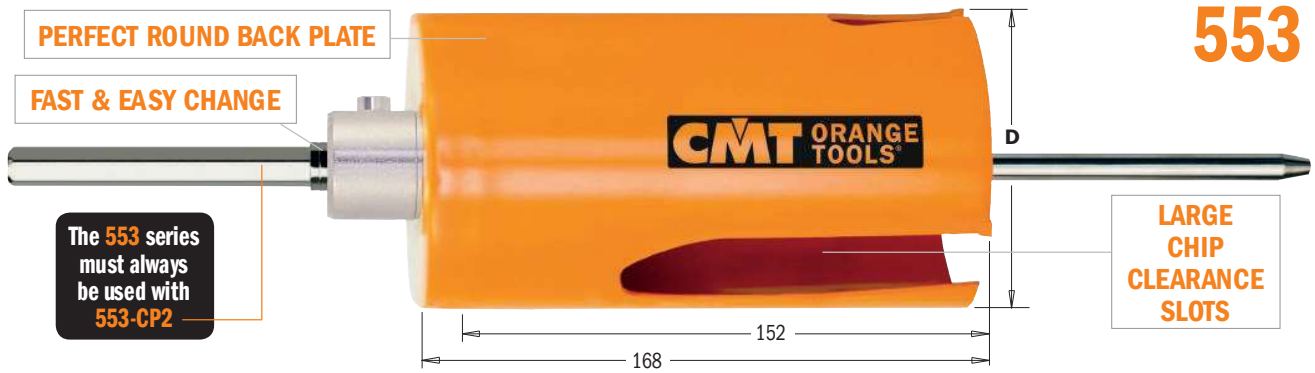


# 553

PERFECT ROUND BACK PLATE

FAST & EASY CHANGE

The 553 series must always be used with 553-CP2



**LONG LASTING CONSTRUCTION GRADE CARBIDE.**  
Cutting teeth are made of a special formulated construction grade carbide which provides a longer cutting life.



**SECURED TOOTH TECHNOLOGY**  
As a result of the latest technology, teeth are secured to prevent any breakage during impact with hard materials.

**10X**  
LONGER LIFE

**5X**  
FASTER



**553-CP2** Heavy Duty center pin  $\varnothing 10\text{mm}$  (25/64").  
Hexagonal shank, total length 330mm (13").



mm	D inches	Z	WOOD & MDF RPM	PVC & FIBERGLASS RPM	MASONRY, BRICK RPM	TILES RPM	S		ORDER NO.
32	1-1/4	1	800	600	600	400	Hexagonal	10	553-032
45	1-3/4	2	600	450	450	350	Hexagonal	10	553-045
51	2	2	600	450	450	350	Hexagonal	10	553-051
60	2-3/8	2	500	350	350	300	Hexagonal	10	553-060
65	2-9/16	3	500	350	350	300	Hexagonal	10	553-065
68	2-11/16	3	500	350	350	300	Hexagonal	10	553-068
70	2-3/4	3	500	350	350	300	Hexagonal	10	553-070
76	3	3	500	350	350	300	Hexagonal	10	553-076
80	3-5/32	3	300	250	250	200	Hexagonal	10	553-080
83	3-1/4	3	300	250	250	200	Hexagonal	10	553-083
86	3-3/8	3	300	250	250	200	Hexagonal	10	553-086
92	3-5/8	3	300	250	250	200	Hexagonal	10	553-092
102	4	4	300	250	250	200	Hexagonal	5	553-102
105	4-1/8	4	300	250	250	200	Hexagonal	5	553-105
111	4-3/8	4	200	150	150	120	Hexagonal	5	553-111
114	4-1/2	4	200	150	150	120	Hexagonal	5	553-114
121	4-3/4	4	200	150	150	120	Hexagonal	5	553-121
127	5	5	200	150	150	120	Hexagonal	5	553-127
130	5-1/8	5	200	150	150	120	Hexagonal	5	553-130
133	5-1/4	5	200	150	150	120	Hexagonal	5	553-133
140	5-1/2	5	200	150	150	120	Hexagonal	1	553-140
152	6	5	200	150	150	120	Hexagonal	1	553-152
160	6-5/16	6	200	150	150	120	Hexagonal	1	553-160
177	7	6	200	150	150	120	Hexagonal	1	553-177
190	7-1/2	6	200	150	150	120	Hexagonal	1	553-190
210	8-1/4	7	200	150	150	120	Hexagonal	1	553-210

**542.100.51** Auger bit  $\varnothing 10\text{mm}$  (25/64") to pre-drill deep holes in wood and wood-based.  
Hexagonal shank, total length 200mm (7-7/8").



**553-HW10** Carbide tipped bit  $\varnothing 10\text{mm}$  (25/64") to pre-drill deep holes in masonry materials.  
Hexagonal shank, total length 200mm (7-7/8").





FLUSH-MOUNT



Example of commercial electric flush-mount boxes.

NO FLUSH-MOUNT



**APPLICATIONS**

in plasterboard, gypsum, wood, plywood, chipboard, MDF, fiber cement boards, plastics, bricks and tiles for electric flush-mount case installation.

D		D <sub>2</sub>		Z	WOOD & MDF	PVC & FIBERGLASS	MASONRY, BRICK	TILES	S	ORDER NO.
mm	inches	mm	inches		RPM	RPM	RPM	RPM		
68	2-11/16	74	2-15/16	3+3	470	400	400	190	Hexagonal	10 <b>550-068CS</b>

**Hole Saws Accessories**

**550-HS2XL** For  $\varnothing 32\text{mm}$  (1-1/4") and above. Long heavy duty, hexagonal shank for 13mm (1/2") chucks, HSS center drill, total length 320mm (12-19/32").



**550-HW2XL** For  $\varnothing 32\text{mm}$  (1-1/4") and above. Long heavy duty, hexagonal shank for 13mm (1/2") chucks, HW center drill, total length 320mm (12-19/32").



**551-HS2XL** For  $\varnothing 32\text{mm}$  (1-1/4") and above. Long heavy duty, hexagonal shank for 13mm (1/2") chucks, HSS center drill, total length 320mm (12-19/32").



**550-EX1 / 550-EX2** Extension for Pilot Bits. Long heavy duty, hexagonal shank for 13mm (1/2") chucks. Not compatible with XL accessories.



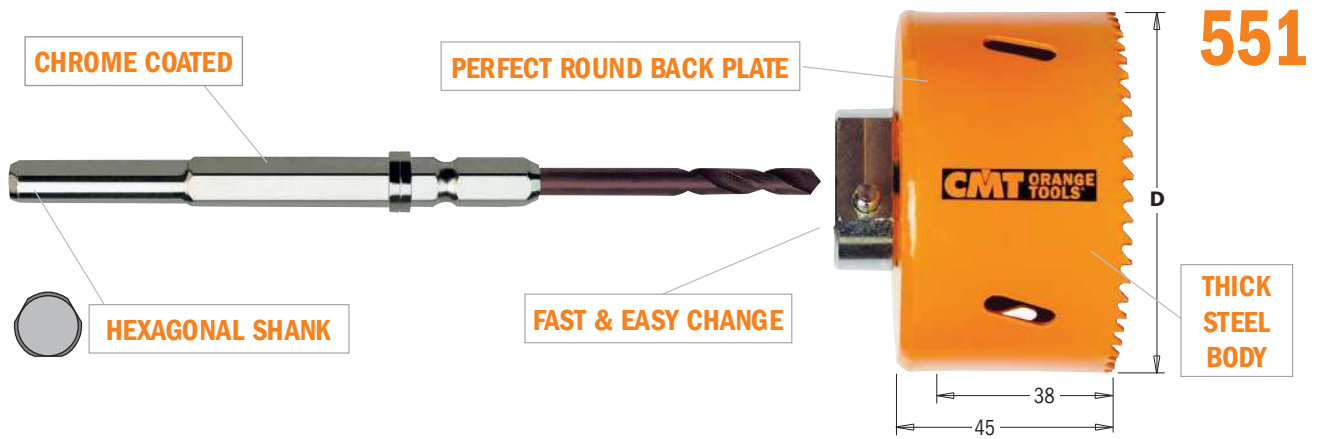
S	mm	L	For Chuck	ORDER NO.
		inches	mm	
Hexagonal	300	11-13/16	10	<b>550-EX1</b>
Hexagonal	300	11-13/16	13	<b>550-EX2</b>

**550-SDS1 / 550-SDS2** SDS Adapter for Pilot Bits. SDS shank. Not compatible with XL and EX accessories.

S	mm	L	For Chuck	ORDER NO.
		inches	mm	
SDS	95	3-3/4	10	<b>550-SDS1</b>
SDS	95	3-3/4	13	<b>550-SDS2</b>



**TOOLBOX**  
Darbagaldi & Instrumenti  
www.TOOLBOX.lv info@toolbox.lv



**MATERIALS**

- metals (up to 1000 N/mm<sup>2</sup> strength)
- mild steel,
- stainless steel
- non-ferrous metals, aluminium
- sandwich materials
- cast iron
- copper, galvanized sheet metal, brass



**BI-METAL PLUS 8% COBALT**  
Premium bi-metal with 8% cobalt provides Xtreme results in performance and up to 50% longer lifetime than the competition.

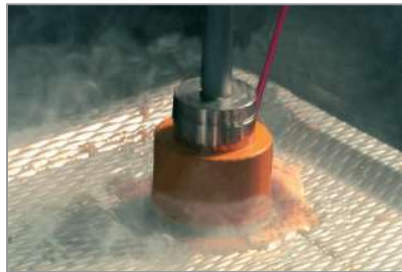


**ALTERNATE & SIDE SET TEETH**



**TEETH DESIGN**

Special tooth geometry with regular pitch provides a smoother cut and better chip clearance preventing clogging and heat build-up. Teeth are alternate & side set to minimize binding and friction, requiring less feed pressure.



Stainless steel and cast iron



Galvanized sheet metal, aluminium and copper



**SPEED KILLS!**

Operating at higher speeds than those recommended will shorten hole saw life and produce very inefficient cutting.



**FEED PRESSURE:**

Variables in material, work configuration should be considered. Apply sufficient feed pressure to aid good chip removal. Reduce the pressure when hole saw becomes hot or if teeth start to clog with material. Insufficient feed pressure will dull tooth points prematurely, but too much pressure can totally destroy teeth.



**COOLING LUBRICANT:**


Cutting oil serves several purposes when sawing in metals:

- it cools saw and workpiece
- it reduces heat and abrasion, which can shorten cutting life
- it also helps remove swarf from the cutting surface
- using a cooling lubricant will extend your hole saw life by 500%.



Percussion/hammer action mode must be turned off when using these hole saws.



mm	D inches	METAL RPM	STAINLESS STEEL RPM	CAST IRON RPM	ALUMINIUM RPM	S		ORDER NO.
16	5/8	550	270	370	800	Hexagonal	10	551-016
19	3/4	470	230	310	670	Hexagonal	10	551-019
20	13/16	440	220	290	640	Hexagonal	10	551-020
22	7/8	400	200	270	580	Hexagonal	10	551-022
25	1	350	170	230	510	Hexagonal	10	551-025
27	1-1/16	330	160	220	470	Hexagonal	10	551-027
29	1-1/8	310	150	200	440	Hexagonal	10	551-029
30	1-3/16	300	140	190	430	Hexagonal	10	551-030
32	1-1/4	280	140	180	400	Hexagonal	10	551-032
35	1-3/8	250	120	170	370	Hexagonal	10	551-035
38	1-1/2	230	110	150	340	Hexagonal	10	551-038
40	1-9/16	220	110	150	320	Hexagonal	10	551-040
43	1-11/16	210	100	140	300	Hexagonal	10	551-043
44	1-3/4	200	100	130	290	Hexagonal	10	551-044
48	1-7/8	180	90	120	270	Hexagonal	10	551-048
51	2	170	85	110	250	Hexagonal	10	551-051
52	2-1/16	160	80	110	240	Hexagonal	10	551-052
54	2-1/8	160	80	110	240	Hexagonal	10	551-054
57	2-1/4	160	75	100	220	Hexagonal	10	551-057
60	2-3/8	150	70	95	210	Hexagonal	10	551-060
64	2-1/2	140	70	90	205	Hexagonal	10	551-064
65	2-9/16	140	70	90	205	Hexagonal	10	551-065
68	2-11/16	130	65	80	185	Hexagonal	10	551-068
70	2-3/4	130	60	80	185	Hexagonal	10	551-070
73	2-7/8	120	60	80	180	Hexagonal	10	551-073
76	3	120	55	75	170	Hexagonal	10	551-076
79	3-1/8	110	55	70	165	Hexagonal	10	551-079
83	3-1/4	105	50	70	155	Hexagonal	10	551-083
86	3-3/8	105	50	65	150	Hexagonal	10	551-086
89	3-1/2	100	50	65	145	Hexagonal	10	551-089
92	3-5/8	95	45	60	140	Hexagonal	10	551-092
102	4	85	45	55	130	Hexagonal	5	551-102
105	4-1/8	80	40	55	120	Hexagonal	5	551-105
108	4-1/4	80	40	55	120	Hexagonal	5	551-108
114	4-1/2	80	40	55	120	Hexagonal	5	551-114
127	5	70	35	45	90	Hexagonal	2	551-127
133	5-1/4	65	35	45	90	Hexagonal	2	551-133
140	5-1/2	65	30	40	85	Hexagonal	2	551-140
152	6	55	25	35	75	Hexagonal	2	551-152
168	6-5/8	55	25	35	75	Hexagonal	2	551-168

Cooling



CUTTING OIL

CUTTING OIL

DRY

TURPENTINE



**551-HS1**

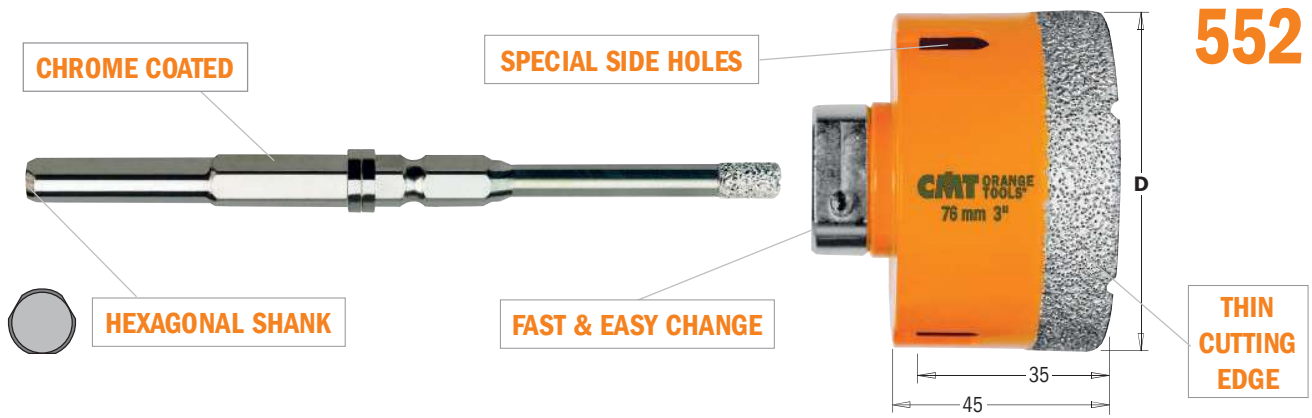
For Bi-Metal PLUS hole saws **Ø16-30mm (5/8" - 1-3/16")**.  
Hexagonal shank for **10mm (25/64")** chuck, HSS center drill, total length 160mm (6-5/16").



**551-HS2**

For Bi-Metal PLUS hole saws **Ø32 (1-1/4") and above**.  
Hexagonal shank for **13mm (1/2")** chuck, HSS center drill, total length 160mm (6-5/16").





**MATERIALS**

- tiles (ceramic, gres, etc.)
- hard stones (granite, marble, etc.)
- artificial stone (Okite®, Silestone®, etc.)



**DIAMOND GRIT PREMIUM GRADE**  
Well-shaped and extremely strong cubo-octahedral inclusion-free heat-resistant crystals deliver fast, clean cuts up to 10 times longer life.



Diamond dry hole saw with continuous edge have been specially developed for professionals that need to drill in extremely hard materials where it is increasingly difficult to drill with conventional hole saws. These hole saws guarantee excellent performance and superior lifetime!



Ceramic and Gres tiles



Granite and Marble



HARD STONE



GRANITE



GRES TILES



Percussion/hammer action mode must be turned off when using these hole saws.  
We recommend the use of a high speed drill (minimum 14V recommended).  
Always pre-drill with the center drill to achieve the best results.  
Center drill reduces the risk of slipping of hole saw.





D		TILES (CERAMIC & GRES) HARD STONE, ARTIFICIAL STONE	S		ORDER NO.
mm	inches				
18	45/64	RPM 1500 ~ 4000	Hexagonal	10	552-018
20	13/16	RPM 1500 ~ 4000	Hexagonal	10	552-020
25	1	RPM 1500 ~ 4000	Hexagonal	10	552-025
32	1-1/4	RPM 1500 ~ 4000	Hexagonal	10	552-032
35	1-3/8	RPM 1500 ~ 4000	Hexagonal	10	552-035
38	1-1/2	RPM 1500 ~ 4000	Hexagonal	10	552-038
51	2	RPM 1500 ~ 4000	Hexagonal	10	552-051
55	2-3/16	RPM 1500 ~ 4000	Hexagonal	10	552-055
68	2-11/16	RPM 1500 ~ 4000	Hexagonal	10	552-068
73	2-7/8	RPM 1500 ~ 4000	Hexagonal	10	552-073
76	3	RPM 1500 ~ 4000	Hexagonal	10	552-076
111	4-3/8	RPM 1500 ~ 4000	Hexagonal	5	552-111



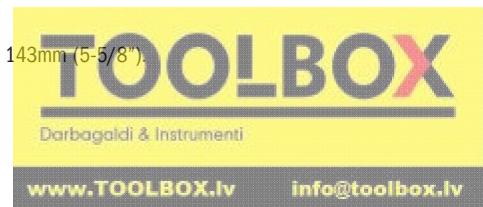
**552-DD1** For diamond dry hole saws  $\leq \varnothing 30\text{mm}$  (1-3/16"). Hexagonal shank for 10mm (25/64") chuck, 8mm diamond center drill, total length 143mm (5-5/8").



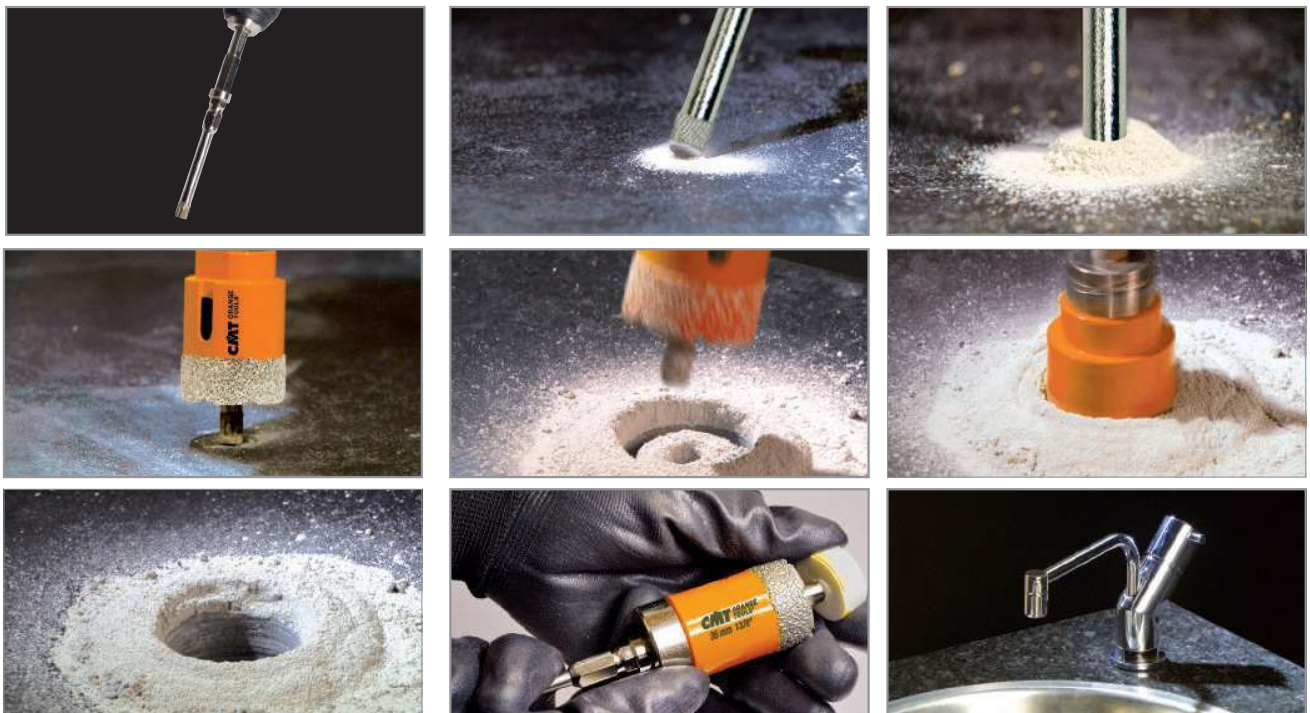
**552-DD2** For diamond dry hole saws  $\geq \varnothing 32\text{mm}$  (1-1/4"). Hexagonal shank for 13mm (1/2") chuck, 10mm diamond center drill, total length 143mm (5-5/8").



**552-WAX**  
Jar 20ml. (0.68oz). Cooling Wax, for perfect cooling and lubrication.



**Diamond dry step-by-step**





RPM 1500 ~ 4000



Filled with cooling wax

**552-0**

mm	D inches	I mm	L mm	TILES (CERAMIC & GRES) HARD STONE, ARTIFICIAL STONE	S	Box	ORDER NO.
5	13/64	30	68	RPM 1500 ~ 4000	Hexagonal	10	<b>552-005</b>
6	1/4	30	68	RPM 1500 ~ 4000	Hexagonal	10	<b>552-006</b>
8	5/16	40	80	RPM 1500 ~ 4000	Hexagonal	10	<b>552-008</b>
10	3/8	40	80	RPM 1500 ~ 4000	Hexagonal	10	<b>552-010</b>
12	15/32	40	80	RPM 1500 ~ 4000	Hexagonal	10	<b>552-012</b>
14	9/16	40	80	RPM 1500 ~ 4000	Hexagonal	10	<b>552-014</b>
16	5/8	40	80	RPM 1500 ~ 4000	Hexagonal	10	<b>552-016</b>



**552-001-05**  
**5 PIECE HOLE SAW SET**

- 552-005
- 552-006
- 552-008
- 552-010
- 552-012



MAX RPM 14000



19mm 3/4"



Filled with cooling wax

**552-5**

mm	D inches	I mm	L mm	TILES (CERAMIC & GRES) HARD STONE, ARTIFICIAL STONE	S	Box	ORDER NO.
6	1/4	35	60	MAX RPM 14000	M14	10	<b>552-506</b>
8	5/16	35	60	MAX RPM 14000	M14	10	<b>552-508</b>
10	3/8	35	60	MAX RPM 14000	M14	10	<b>552-510</b>
12	1/2	35	60	MAX RPM 14000	M14	10	<b>552-512</b>
20	13/16	35	60	MAX RPM 14000	M14	5	<b>552-520</b>
25	1	40	60	MAX RPM 14000	M14	5	<b>552-525</b>
28	1-1/8	40	60	MAX RPM 14000	M14	5	<b>552-528</b>
35	1-3/8	40	60	MAX RPM 14000	M14	5	<b>552-535</b>
43	1-3/4	40	60	MAX RPM 14000	M14	5	<b>552-543</b>
68	2-11/16	40	60	MAX RPM 14000	M14	5	<b>552-568</b>



**552-501-06**  
**6 PIECE HOLE SAW SET**

- 552-506
- 552-008
- 552-010
- 552-012
- 552-GUIDE
- 552-EX14



**552-EX14**  
Hexagonal adapter for electric drills (M14)  
Pack Qty. 10 pc.



**552-GUIDE**  
Vacuum Drill Guide with 7 holes

B mm	B inches	Box	ORDER NO.
4-5-6-7-8-10-12	5/32-3/16-1/4-9/32-5/16-3/8-1/2	10	<b>552-GUIDE</b>



# BUY HOLE SAWS + ARBORS AND YOU'LL GET THE CASE TO COLLECT THE WHOLE SET FOR FREE!



03.01.0297

The big case is provided empty, image is purely indicative.



03.01.0296

The small case is provided empty, image is purely indicative.

## HW SERIES 550 TUNGSTEN CARBIDE-TIPPED

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
550-020	20	550-056	56	550-HS2
550-022	22	550-060	60	550-HW2
550-025	25	550-064	64	550-HS1
550-029	29	550-068	68	550-HW1
550-030	30	550-070	70	
550-032	32	550-073	73	
550-035	35	550-076	76	
550-040	40	550-080	80	
550-044	44	550-102	102	
550-051	51	550-152	152	

**20+4**  
pcs.

## HW SERIES 550 TUNGSTEN CARBIDE-TIPPED

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
550-025	25	550-060	60	550-HS2
550-032	32	550-064	64	550-HW2
550-035	35	550-068	68	550-HS1
550-040	40	550-080	80	550-HW1
550-051	51	550-102	102	

**10+4**  
pcs.

## BIM 8% Co SERIES 551 BI-METAL PLUS 8% COBALT

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
551-020	20	551-057	57	551-HS2
551-022	22	551-060	60	551-HS1
551-025	25	551-064	64	
551-027	27	551-068	68	
551-030	30	551-076	76	
551-035	35	551-079	79	
551-040	40	551-083	83	
551-043	43	551-089	89	
551-048	48	551-102	102	
551-051	51	551-108	108	

**20+2**  
pcs.

## BIM 8% Co SERIES 551 BI-METAL PLUS 8% COBALT

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
551-020	20	551-040	40	551-HS2
551-022	22	551-043	43	551-HS1
551-025	25	551-051	51	
551-030	30	551-060	60	
551-035	35	551-079	79	

**10+2**  
pcs.

## GRIT SERIES 552 DIAMOND DRY

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
552-005	5	552-016	16	552-DD2
552-006	6	552-020	20	552-DD1
552-008	8	552-025	25	552-WAX
552-010	10	552-032	32	
552-012	12	552-035	35	

**10+3**  
pcs.

