

## Slot and mortise boring bits



**163**

HW Z2 RH

D mm	L mm	S mm	ORDER NO. Right-hand rotation
12	100	M12x1	<b>163.120.11</b>
14	100	M12x1	<b>163.140.11</b>
16	100	M12x1	<b>163.160.11</b>

**TECHNICAL DETAILS:**

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

**APPLICATION:** used for cutting mortises and slots in solid wood and wood composites. Assembled in chucks.

**163**

HL Z2 RH

D mm	L mm	S mm	ORDER NO. Right-hand rotation
12	100	M12x1	<b>163.120.31</b>
14	100	M12x1	<b>163.140.31</b>
16	100	M12x1	<b>163.160.31</b>
18	100	M12x1	<b>163.180.31</b>

**TECHNICAL DETAILS:**

- Long lasting cutter performance
- 2 HL precision ground cutting edges [Z2]

**APPLICATION:** used for cutting mortises and slots in solid wood and wood composites. Assembled in chucks.

## Slot and mortise boring bits



**164**

HW Z2 V2 RH

D mm	L mm	S mm	ORDER NO. Right-hand rotation
18	100	M12x1	<b>164.180.11</b>
20	100	M12x1	<b>164.200.11</b>
22	100	M12x1	<b>164.220.11</b>

**TECHNICAL DETAILS:**

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

**APPLICATION:** used for drilling blind holes in solid wood, wood composites, plastic and laminated materials. Used on slot and mortise machines equipped with chucks.

**164**

HL Z2 V2 RH

D mm	L mm	S mm	ORDER NO. Right-hand rotation
15	100	M12x1	<b>164.150.31</b>
18	100	M12x1	<b>164.180.31</b>
20	100	M12x1	<b>164.200.31</b>
24	100	M12x1	<b>164.240.31</b>

**TECHNICAL DETAILS:**

- Long lasting cutter performance
- HL cutting head with precision balanced centre point
- 2 precision ground edges [Z2]
- 2 ground spurs [V2]

**APPLICATION:** used for drilling blind holes in soft and hardwood. Used on slot and mortise machines equipped with chucks.

## Slot and mortise boring bits



### 166-167

HW Z2 V2 RH

d mm	D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
11	19	62	155	M12x1	<b>166.190.11</b>
11	22	62	155	M12x1	<b>166.220.11</b>
12	19	62	155	M12x1	<b>167.190.11</b>
12	24	62	155	M12x1	<b>167.240.11</b>

**TECHNICAL DETAILS:**

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

**APPLICATION:** used for drilling and cutting mortise slots in solid wood, wood composites, plastic and laminated materials.

## Lockset bits



### 169

HL Z3 RH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
15	22	90	M12x1	<b>169.150.31</b>
18	22	90	M12x1	<b>169.180.31</b>
20	22	90	M12x1	<b>169.200.31</b>

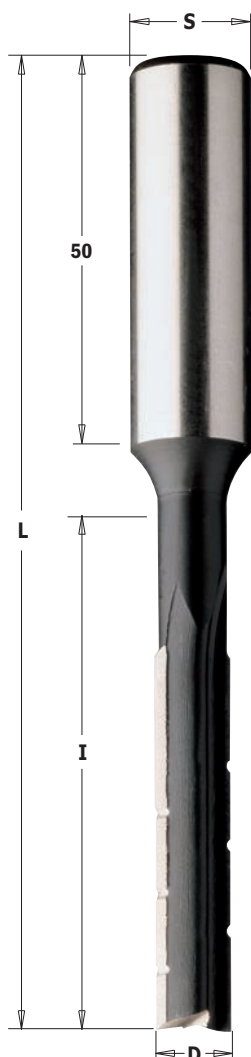
**TECHNICAL DETAILS:**

- Long-lasting cutting performance
- 3 HL precision ground cutting edges [Z3]

**APPLICATION:** used for cutting mortise slots in soft and hardwood. Used on slot and mortise machines equipped with chucks.

# Slot mortising bits with chip-breaker

Saw blades  
Tools with bore & knives  
Router Bits & Sets  
CNC Router Cutter & Chucks  
Industrial Dowel Drills  
Bits for Hand Power Tools  
Spare Parts  
Power Tools & Accessories  
Display Cabinets



## 102

HL Z2 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
6	50	105	16	102.060.31	102.060.32
7	55	110	16	102.070.31	102.070.32
8	60	115	16	102.080.31	102.080.32
9	65	120	16	102.090.31	102.090.32
10	70	125	16	102.100.31	102.100.32
11	75	130	16	102.110.31	102.110.32
12	80	135	16	102.120.31	102.120.32
13	85	140	16	102.130.31	102.130.32
14	90	145	16	102.140.31	102.140.32
15	95	150	16	102.150.31	102.150.32
16	100	155	16	102.160.31	102.160.32
17	105	160	16	102.170.31	102.170.32
18	110	165	16	102.180.31	102.180.32
19	115	170	16	102.190.31	102.190.32
20	120	175	16	102.200.31	102.200.32
22	125	180	16	102.220.31	102.220.32
24	125	180	16	102.240.31	102.240.32

## 172

HL Z2 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
6	50	105	13	172.060.31	172.060.32
7	55	110	13	172.070.31	172.070.32
8	60	115	13	172.080.31	172.080.32
9	65	120	13	172.090.31	172.090.32
10	70	125	13	172.100.31	172.100.32
11	75	130	13	172.110.31	172.110.32
12	80	135	13	172.120.31	172.120.32
13	85	140	13	172.130.31	172.130.32
14	90	145	13	172.140.31	172.140.32
15	95	150	13	172.150.31	172.150.32
16	100	155	13	172.160.31	172.160.32
18	110	165	13	172.180.31	172.180.32
20	120	175	13	172.200.31	172.200.32

**TECHNICAL DETAILS:**

- Long-lasting cutting performance
- 2 HL precision ground straight cutting edges with chip-breaker teeth [Z2]

**APPLICATION:** for cutting mortise slots in soft and hardwood.  
Used on machining centres equipped with chucks.

# 6 piece mortising bit sets



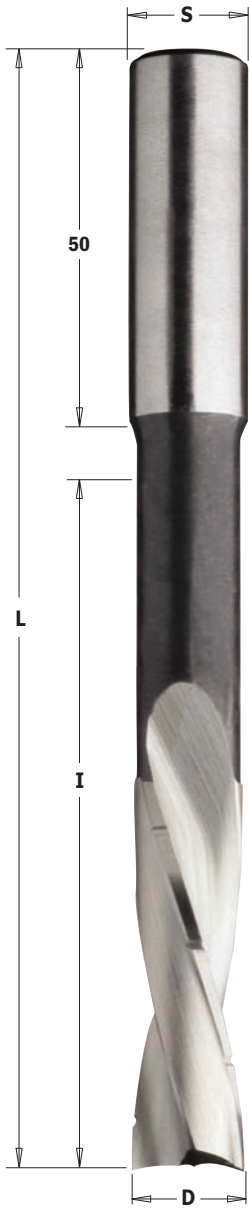
## 102-172

HL Z2 RH LH

Ideal for heavy mortise jobs.  
Made of super strength high speed steel and available in left-hand or right-hand rotation.  
Safely packaged in a hardwood and glass box for protection, these sets are economical and a perfect addition to any workshop.

DESCRIPTION	S mm	D mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
6 pcs. mortising bit sets (straight)	16	6-8-10-12-14-16	102.001.00	102.001.10
6 pcs. mortising bit sets (straight)	13	6-8-10-12-14-16	172.001.00	172.001.10

# Twisted slot mortising bits with chip-breaker



## 161

SP Z2 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
6	60	120	16	<b>161.060.31</b>	<b>161.060.32</b>
8	70	130	16	<b>161.080.31</b>	<b>161.080.32</b>
10	80	140	16	<b>161.100.31</b>	<b>161.100.32</b>
12	90	150	16	<b>161.120.31</b>	<b>161.120.32</b>
14	100	160	16	<b>161.140.31</b>	<b>161.140.32</b>
16	110	170	16	<b>161.160.31</b>	<b>161.160.32</b>

## 160

SP Z2 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
6	60	120	13	<b>160.060.31</b>	<b>160.060.32</b>
8	70	130	13	<b>160.080.31</b>	<b>160.080.32</b>
10	80	140	13	<b>160.100.31</b>	<b>160.100.32</b>
12	90	150	13	<b>160.120.31</b>	<b>160.120.32</b>
14	100	160	13	<b>160.140.31</b>	<b>160.140.32</b>
16	110	170	13	<b>160.160.31</b>	<b>160.160.32</b>

**TECHNICAL DETAILS:**

- Long-lasting cutting performance
- 2 SP precision ground twisted cutting edges with chip-breaker teeth [Z2]

**APPLICATION:** for cutting mortise slots in soft and hardwood.  
Used on machining centres equipped with chucks.

## 6 piece mortising bit sets



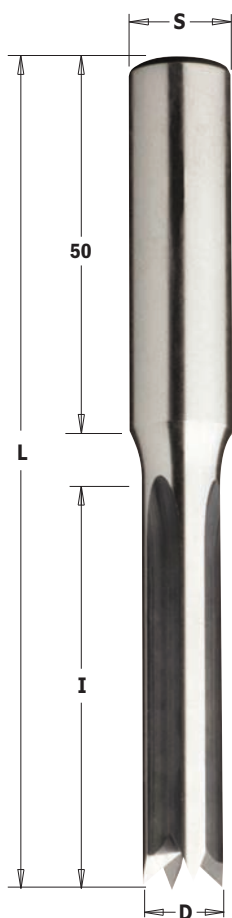
## 160-161

SP Z2 RH LH

Ideal for heavy mortise jobs.  
Made of super strength high speed steel and available in left-hand or right-hand rotation.  
Safely packaged in a hardwood and glass box for protection, these sets are economical and a perfect addition to any workshop.

DESCRIPTION	S mm	D mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
6 pcs. mortising bit set (twist)	16	6-8-10-12-14-16	<b>161.001.00</b>	<b>161.001.10</b>
6 pcs. mortising bit set (twist)	13	6-8-10-12-14-16	<b>160.001.00</b>	<b>160.001.10</b>

## Reciprocating slot mortising bits



### 104



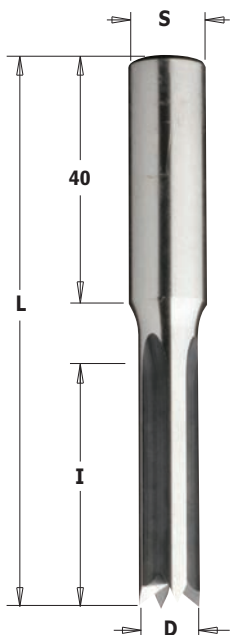
D	I	L	S	ORDER NO.
mm	mm	mm	mm	Right-hand & Left-hand rotation
6	45	100	13	104.060.30
7	45	100	13	104.070.30
8	45	100	13	104.080.30
9	45	100	13	104.090.30
10	55	110	13	104.100.30
11	55	110	13	104.110.30
12	55	110	13	104.120.30
13	55	110	13	104.130.30
14	55	110	13	104.140.30
15	55	110	13	104.150.30
16	55	110	13	104.160.30

**TECHNICAL DETAILS:**

- Long-lasting cutting performance
- 4 HL precision ground cutting edges [Z4]

**APPLICATION:** used for cutting mortise slots in soft and hardwood. Used on machining centres equipped with chucks.

## Reciprocating slot mortising bits



### 105



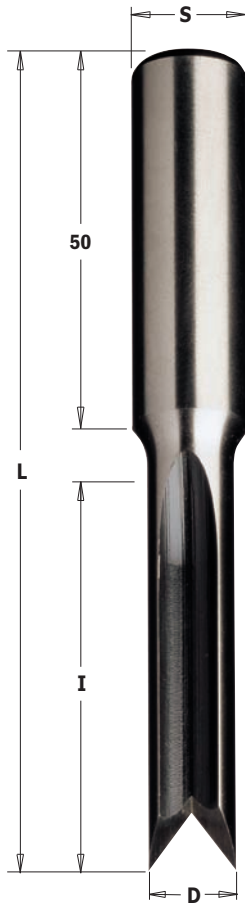
D	I	L	S	ORDER NO.
mm	mm	mm	mm	Right-hand & Left-hand rotation
6	28	73	10	105.060.30
7	28	73	10	105.070.30
8	28	73	10	105.080.30
9	28	73	10	105.090.30
10	28	73	10	105.100.30
11	28	73	10	105.110.30
12	28	73	10	105.120.30
13	28	73	10	105.130.30
14	28	73	10	105.140.30
15	28	73	10	105.150.30
16	28	73	10	105.160.30

**TECHNICAL DETAILS:**

- Long-lasting cutting performance
- 4 HL precision ground cutting edges [Z4]

**APPLICATION:** used for cutting mortise slots in soft and hardwood. Used on machining centres equipped with chucks.

## Reciprocating slot mortising bits



**103**

HL Z2 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand & Left-hand rotation
6	45	100	16	<b>103.060.30</b>
7	45	100	16	<b>103.070.30</b>
8	45	100	16	<b>103.080.30</b>
9	45	100	16	<b>103.090.30</b>
10	55	110	16	<b>103.100.30</b>
11	55	110	16	<b>103.110.30</b>
12	55	110	16	<b>103.120.30</b>
13	55	110	16	<b>103.130.30</b>
14	55	110	16	<b>103.140.30</b>
15	55	110	16	<b>103.150.30</b>
16	55	110	16	<b>103.160.30</b>

**TECHNICAL DETAILS:**

- Long-lasting cutter performance
- 2 HL precision ground cutting edges [Z2]

**APPLICATION:** used for cutting mortise slots in soft and hardwood. Used on machining centres equipped with chucks.

## Reciprocating slot mortising bits



**179**

HS Z2 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand & Left-hand rotation
6	45	90	13	<b>179.060.50</b>
7	50	95	13	<b>179.070.50</b>
8	50	95	13	<b>179.080.50</b>
9	55	100	13	<b>179.090.50</b>
10	60	105	13	<b>179.100.50</b>
11	65	110	13	<b>179.110.50</b>
12	70	115	13	<b>179.120.50</b>
13	75	120	13	<b>179.130.50</b>

**TECHNICAL DETAILS:**

- Long-lasting cutter performance
- 2 HS precision ground cutting edges [Z2]

**APPLICATION:** used for cutting mortise slots in soft and hardwood. Used on machining centres equipped with chucks.

# Reciprocating slot mortising bits

Saw blades

Tools with bore & knives

Router Bits & Sets

CNC Router Cutter & Chucks

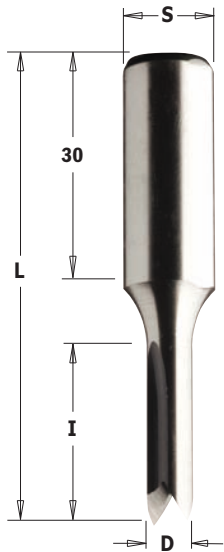
Industrial Dowel Drills

Bits for Hand Power Tools

Spare Parts

Power Tools & Accessories

Display Cabinets



## 106

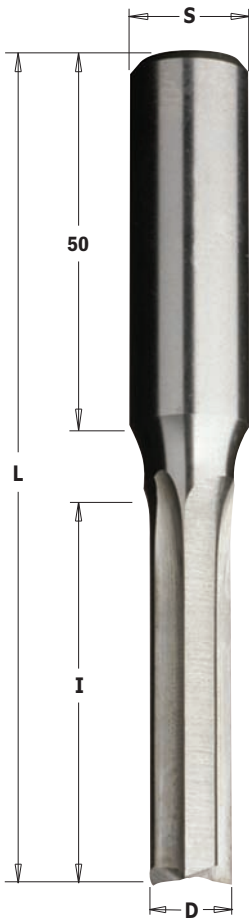
HL Z2 Z4 RH LH

D mm	I mm	L mm	S mm	Z	ORDER NO. Right-hand & Left-hand rotation
6	25	60	12	2	<b>106.060.30</b>
7	25	60	12	2	<b>106.070.30</b>
8	25	60	12	2	<b>106.080.30</b>
9	25	60	12	2	<b>106.090.30</b>
10	25	60	12	4	<b>106.100.30</b>
11	25	60	12	4	<b>106.110.30</b>
12	25	60	12	4	<b>106.120.30</b>
13	25	60	12	4	<b>106.130.30</b>
14	25	60	12	4	<b>106.140.30</b>
15	25	60	12	4	<b>106.150.30</b>

**TECHNICAL DETAILS:**

- Long-lasting cutter performance
- 2 or 4 HL precision ground cutting edges [Z2-Z4]

# Slot mortising bits



## 107

HL Z3 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
6	55	110	16	<b>107.060.31</b>	<b>107.060.32</b>
8	55	110	16	<b>107.080.31</b>	<b>107.080.32</b>
10	55	110	16	<b>107.100.31</b>	<b>107.100.32</b>
12	55	110	16	<b>107.120.31</b>	<b>107.120.32</b>
14	60	115	16	<b>107.140.31</b>	<b>107.140.32</b>
16	60	115	16	<b>107.160.31</b>	<b>107.160.32</b>
18	60	115	16	<b>107.180.31</b>	<b>107.180.32</b>
20	60	115	16	<b>107.200.31</b>	<b>107.200.32</b>

**TECHNICAL DETAILS:**

- Long-lasting cutter performance
- 3 HL precision ground cutting edges [Z3]

**APPLICATION:** used for cutting mortise slots in soft and hardwood. Used in machining centres equipped with chucks.