

CNC router cutters & chucks

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Precision chucks and collets

The ideal accessories for machining centres, point-to-point machines and CNC routers.

- extreme precision and reliability;
- perfect tool centering;
- defect-free rotation;
- made from extremely high resistant steel;
- precision grinding on all jointed parts;
- extreme high rotation performance ≥ 15 HP - 20.000 RPM;
- for very efficient sizing on extreme unprecedented high feed speed;
- excellent finishing quality on the workpiece and longer tool life;
- sturdy design with reduced height to increase the work space between the machine and the piece;
- safe and fast tool setup;
- interchangeable collet clamps with radial grooves for secure parallel tool clamping;
- wide clamping tolerance (-0.7mm);
- right or left-hand rotation chucks with self clamping threads;
- clamping nut with Woodruff radial grooves for c-spanners;
- practical withdrawal sleeves with double differential threads for the chuck spindle;
- central hexagonal low profile for easy tool clamping through a c-spanner;
- designed and tested in collaboration with the most renowned machining and CNC router construction centres;
- delivered in a smart professional packaging.

Universal assembly supports for chucks



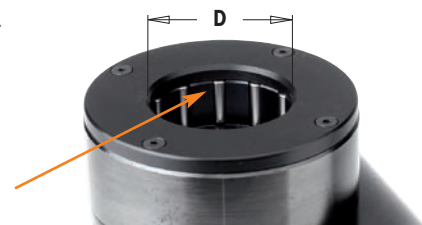
183

DESCRIPTION	D mm	ORDER NO.
Universal assembly supports for chucks HSK-F63	63	183-HSK
Universal assembly supports for chucks ISO30	50	183-ISO

For HSK-F63 and ISO30 chucks

CMT now offers new universal assembly supports for HSK-F63 and ISO30 chucks. Thanks to the bidirectional roller bearings, which clamp the toolholder to the flange, the system offers the highest protection to the tool taper and clamps are no longer needed.

The special bidirectional roller bearing clamps the toolholder to the flange, offering the highest protection to the tool taper.



HSK chuck for "ER32" precision collets



183.300

RH LH

S	To be used with collet	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
HSK-F63	ER32	183.300.01	183.300.02

For Homag, Eima from 9/94, Dubus, Weeke, Biesse, SCM, Morbidelli and Masterwood machines.

ISO30 chucks for “ER32” precision collets



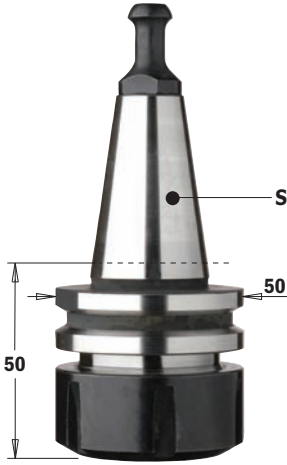
183.200

RH LH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
ISO 30	ER32	Ø12-8	183.200.01	183.200.02

995.200

For Biesse machines.



183.210

RH LH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
ISO 30	ER32	Ø13-9	183.210.01	183.210.02

995.201

For Biesse machines with Omlat engine, Bulleri, Busellato, CMS and IMA machines.



183.220

RH LH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
ISO 30	ER32	Ø12,8-9	183.220.01	183.220.02

995.202

For Alberti and Masterwood machines.

ISO30 chucks for “ER32” precision collets



183.250

RH LH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
ISO 30	ER32	Ø8,5	183.250.01	183.250.02

995.250

For Morbidelli and SCM machines.



183.251

RH LH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
ISO 30	ER32	Ø8,5	183.251.01	183.251.02

For Morbidelli and SCM machines (with aluminium flange already assembled Ø69,5mm).

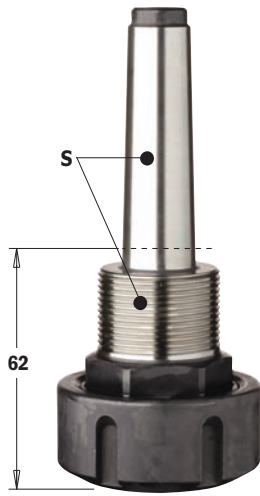
Retaining stud and aluminium flange

DESCRIPTION	ORDER NO.
Ø69,5mm aluminium flange	992.501.00

Chucks for "ER32" precision collets

183.000/100

RH LH



S mm	To be used with collet	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
MK2/M30x1,5	ER32	183.000.01	183.000.02
MK3/M30x1,5	ER32	183.100.01	

MK2/MK3 tapered shank

Saw blades

Tools with bore
& Knives

Router Bits
& Sets

CNC Router Cutter
& Chucks

Industrial
Dowel Drills

Bits for Hand
Power Tools

Spare Parts

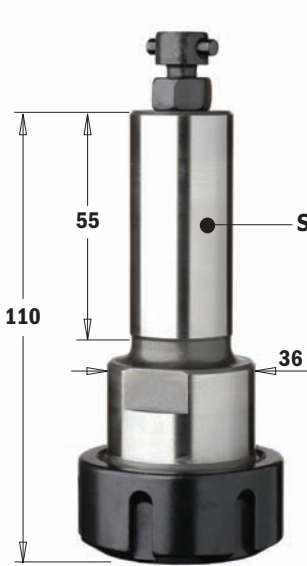
Power Tools
& Accessories

Display Cabinets

Chucks for "ER32" precision collets

183.400

RH



S mm	To be used with collet	Retaining stud	ORDER NO. Right-hand rotation
Ø25x55	ER32	PS LEUCO	183.400.01

For machines with PS Leuco system

Clamping nuts for chucks with "ER32" collets



992.183

RH LH

DESCRIPTION	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
Clamping nut without bearing For 183.000/100/200/250/300/400 chucks	992.183.01	992.183.02
Clamping nut with bearing For 183.000/100/200/250/300/400 chucks	992.183.11	992.183.12

C-Spanner for "ER32" precision collets



991.183

DESCRIPTION	ORDER NO.
C-Spanner for "ER32" precision collets	991.183.00

HSK chucks for “ER40” precision collets



183.310

RH LH

S	To be used with collet	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
HSK-F63	ER40	183.310.01	183.310.02

For Homag, Eima, IMA from 9/94, Dubus, Weeke, Biesse, SCM, Morbidelli and Masterwood machines.

ISO30 chucks for “ER40” precision collets



995.200

183.201

RH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation
ISO30	ER40	Ø12-8	183.201.01

For Biesse machines.



995.201

183.211

RH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation
ISO30	ER40	Ø13-9	183.211.01

For Biesse machines with Omlat engine, Bulleri, Busellato, CMS and IMA machines.



995.202

183.221

RH

S	To be used with collet	Retaining stud mm	ORDER NO. Right-hand rotation
ISO30	ER40	Ø12,8-9	183.221.01

For Alberti and Masterwood machines.

Clamping nuts for chucks with “ER40” precision collets



992.383

RH LH

DESCRIPTION	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
Clamping nut without bearing For 183.201/211/221/310 chucks	992.383.01	992.383.02
Clamping nut with bearing For 183.201/211/221/310 chucks	992.383.11	

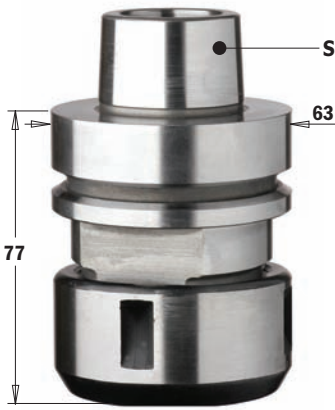
C-spanner for “ER40” precision collets



991.184

DESCRIPTION	ORDER NO.
C-Spanner for “ER40” precision collet	991.184.00

HSK chuck for "DIN6388" precision collet



183.320

RH

S	To be used with collet	ORDER NO.
HSK-F63	DIN6388	Right-hand rotation 183.320.01

For Homag, Eima from 9/94, Dubus, Weeke, Biesse, SCM, Morbidelli & Masterwood machines.

Spare parts

Clamping nut with bearing	992.283.11
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"DIN6388" precision collets



185

TECHNICAL DETAILS:

- replaceable Std "DIN6388" collets (from 6 to 25mm)
- fit most tapered spindle noses
- +0-0,5mm wide clamping tolerance
- suitable for most conical chucks.

REMARK: special dimensions available on request

D ₃ mm	ORDER NO.
6	185.060.00
8	185.080.00
10	185.100.00
12	185.120.00
13	185.130.00
14	185.140.00
16	185.160.00
18	185.180.00
20	185.200.00
25	185.250.00

Clamping nuts



992.283

RH

DESCRIPTION	ORDER NO.
Clamping nut without bearing	Right-hand rotation 992.283.01
Clamping nut with bearing	992.283.11

C-Spanner for "DIN6388" & "ER40"



991.283

DESCRIPTION	ORDER NO.
C-Spanner for "Usag" 58-62-65	991.283.00

“ER20” precision collets



184.xxx.20

TECHNICAL DETAILS:

- replaceable Std "ER20" collets (from 3 to 12,7mm)
- fit most tapered spindle noses
- +0-0,7mm wide clamping tolerance
- suitable for most conical chucks.

REMARK: special dimensions available on request

D ₃ mm	ORDER NO.
3	184.030.20
6	184.060.20
6,35	184.064.20
8	184.080.20
10	184.100.20
12	184.120.20
12,7	184.127.20

“ER25” precision collets



184.xxx.25

TECHNICAL DETAILS:

- replaceable Std "ER25" collets (from 6 to 16mm)
- fit most tapered spindle noses
- +0-0,7mm wide clamping tolerance
- suitable for most conical chucks.

REMARK: special dimensions available on request

D ₃ mm	ORDER NO.
6	184.060.25
8	184.080.25
10	184.100.25
12	184.120.25
14	184.140.25
16	184.160.25

“ER32” precision collets for 183.000/100/200/250/300/400 chucks



184.000

TECHNICAL DETAILS:

- replaceable Std "ER32" collets (from 3 to 20mm)
- fit most tapered spindle noses
- +0-0,7mm wide clamping tolerance
- suitable for most conical chucks.

REMARK: special dimensions available on request

D ₃ mm	ORDER NO.
3	184.030.00
4	184.040.00
5	184.050.00
6	184.060.00
6,35	184.065.00
7	184.070.00
8	184.080.00
10	184.100.00
12	184.120.00
13	184.130.00
14	184.140.00
16	184.160.00
18	184.180.00
19	184.190.00
20	184.200.00

“ER40” precision collets for 183.201/211/221/310 chucks



184.002

TECHNICAL DETAILS:

- replaceable Std "ER40" collets (from 4 to 25mm)
- fit most tapered spindle noses
- +0-0,7mm wide clamping tolerance
- suitable for most conical chucks.

REMARK: special dimensions available on request

D ₃ mm	ORDER NO.
4	184.042.00
5	184.052.00
6	184.062.00
7	184.072.00
8	184.082.00
10	184.102.00
12	184.122.00
13	184.132.00
14	184.142.00
16	184.162.00
18	184.182.00
19	184.192.00
20	184.202.00
25	184.252.00

Cap nuts for CNC machines



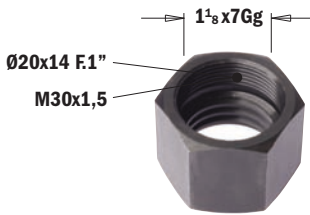
993.0

RH LH

Internal thread	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
Ø20x14Fx1"	993.020.01	993.020.02
M30x1,5	993.030.01	993.030.02

For machines with M33x3 threaded spindle nose

Cap nuts for router machines



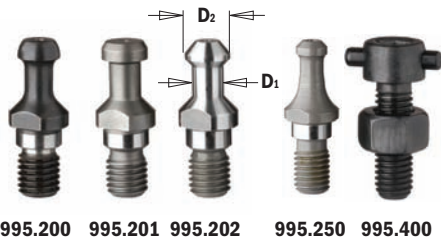
993.5

RH LH

Internal thread	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
Ø20x14Fx1"	993.520.01	
M30x1,5	993.530.01	993.530.02

For machines with 1-1/8"x7 threaded spindle nose

ISO30 retaining studs



DESCRIPTION	D ₁ mm	D ₂ mm	ORDER NO.
Retaining stud for 183.200/201 "Biesse" chucks	8	12	995.200.00
Retaining stud for 183.210/211 "Biesse, Omlat, Bulleri, Busellato, CMS and IMA" chucks	9	13	995.201.00
Retaining stud for 183.220/221 "Alberti-Masterwood" chucks	9	12,8	995.202.00
Retaining stud for 183.250/251 "SCM - Morbidelli" chucks	6,5	8,5	995.250.00
Retaining stud for "PS and Leuco" 183.400 chucks	M8		995.400.00

Cutter arbor with HSK tapered shank



183.360

RH LH

S	D mm	D ₃ mm	ORDER NO.
HSK-F63	Ø30x100	63	183.360.00
HSK-F63	Ø35x100	63	183.361.00
HSK-F63	Ø40x100	63	183.362.00

For Homag, Eima from 9/94, Dubus, Weeke, Biesse, SCM, Morbidelli and Masterwood machines

Cutter arbor with ISO30 tapered shank

183.260

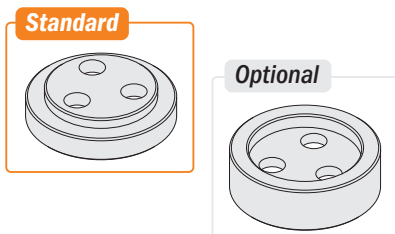
RH LH

S	D mm	D ₃ mm	ORDER NO.
ISO 30	Ø30x100	50	183.260.00

For Biesse machines.

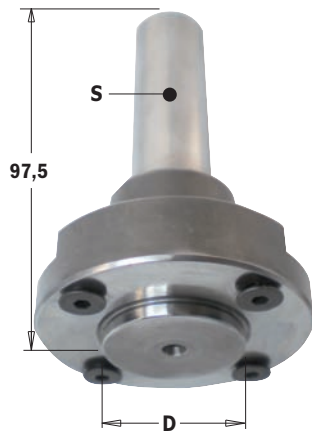
REMARK: special dimensions available on request


Spare parts for chucks



DESCRIPTION	ORDER NO.	DESCRIPTION	ORDER NO.
M6x25 TCEI screw	990.098.00	<i>Optional</i>	
Steel flange for with Ø30mm arbors - Male	992.560.30M	Steel flange for with Ø30mm arbors - Female	992.560.30F
Steel flange for with Ø35mm arbors - Male	992.560.35M	Steel flange for with Ø35mm arbors - Female	992.560.35F
Steel flange for with Ø40mm arbors - Male	992.560.40M	Steel flange for with Ø40mm arbors - Female	992.560.40F

Saw blade arbor with parallel shank


183.410
RH
LH

S mm	D mm	Pin Hole 	L mm	ORDER NO.
20	30	4/M6/48	97,5	183.410.30

Spare parts

M6x10mm TCEI screw	990.083.00
3mm allen key	991.067.00

Saw blades

 Tools with bore
& Knives

 Router Bits
& Sets

 CNC Router Cutter
& Chucks

 Industrial
Dowel Drills

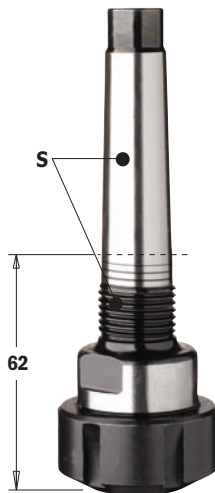
 Bits for Hand
Power Tools

Spare Parts

 Power Tools
& Accessories

Display Cabinets

Collet chucks clamp with MK2 tapered shank


123
RH **LH**

S	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
MK2/Ø20x14Fx1"	123.000.01	123.000.02

Collets for 123 chucks


124

D ₃ mm	ORDER NO.	D ₃ mm	ORDER NO.
6	124.060.00	10	124.100.00
6,35	124.064.00	12	124.120.00
8	124.080.00	12,7	124.127.00
9,5	124.095.00	14	124.140.00

Clamping nuts


992.123
RH **LH**

DESCRIPTION	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
Clamping nut	992.123.01	992.123.02

C-spanner


991.123

DESCRIPTION	ORDER NO.
Type 40-42 "Usag" c-spanner	991.123.00

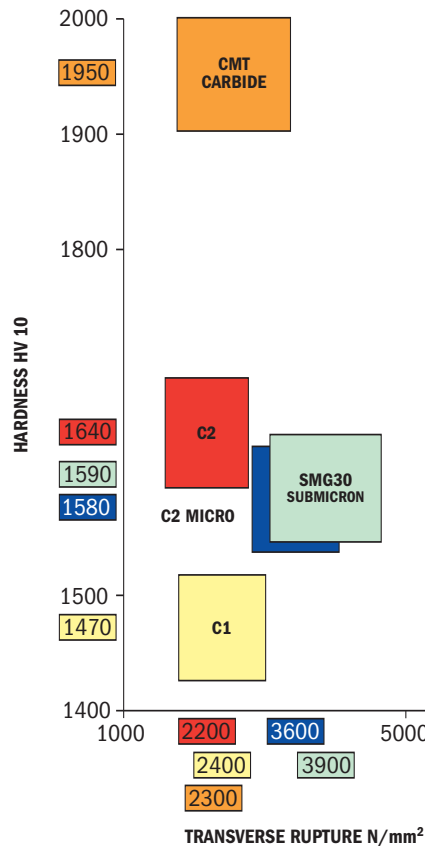
Sharp technology with a new twist

A special super-micrograin carbide formulation was created to produce and hold a keen cutting edge.

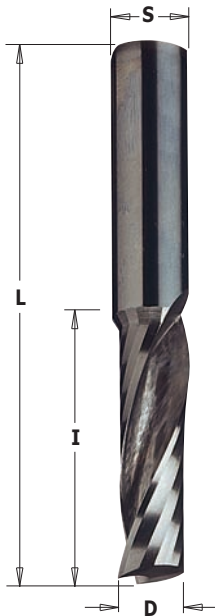
The new low-angle spiral is designed specifically to shear wood cleanly and provide efficient chip ejection.

The tools run cooler and the edges last longer.

Increased feed rate and improved cutting quality for enhanced productivity with CMT!



Solid carbide upcut spiral bits



198

HWM **Z1** **RH**

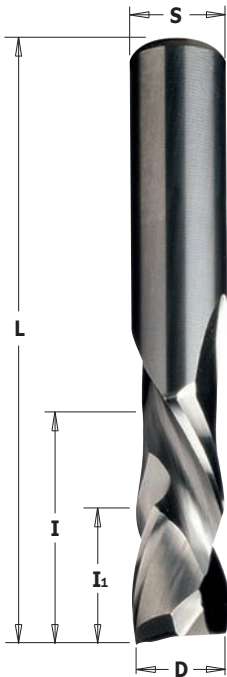
D	I	L	S	ORDER NO.
mm	mm	mm	mm	Right-hand rotation
3	12	50	3	198.030.11
3,18	12,7	50,8	6,35	198.001.11
4	15	50	4	198.040.11
4,76	15,87	50,8	6,35	198.005.11
5	17	50	5	198.050.11
6	22	60	6	198.060.11
6,35	19,05	50,8	6,35	198.007.11
6,35	25,4	63,5	6,35	198.008.11
8	22	70	8	198.080.11
9,52	28,57	76,2	9,52	198.504.11
10	32	70	10	198.100.11
10	42	80	10	198.101.11
10	52	90	10	198.102.11
12	32	80	12	198.120.11

TECHNICAL DETAILS:

- Premium quality HWM
- 1 spiral cutting edge [Z1]
- Provide an excellent finish on the lower side of the workpiece
- Upward chip ejection

APPLICATION: used for cutting, copying, panel sizing and any routing applications on solid wood, wood composites, plastic materials and laminates. Use a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Solid carbide up & downcut spiral bits



190

HWM Z2+2 Z3+3 RH

D mm	I mm	I ₁ mm	L mm	S mm	Z	ORDER NO. Right-hand rotation
8	32	7	80	8	2+2	190.080.11
9,52	28,6	7	76,2	9,52	2+2	190.504.11
10	32	7	80	10	2+2	190.100.11
12	42	7	90	12	2+2	190.120.11
12,7	25,4	16	76,2	12,7	2+2	190.505.11
12,7	28,6	16	76,2	12,7	2+2	190.506.11
12,7	34,9	16	88,9	12,7	2+2	190.507.11
12,7	41,3	16	101,6	12,7	2+2	190.508.11
16	55	24	110	16	2+2	190.160.11
18	55	30	110	18	2+2	190.180.11

...up & downcut mortising bits

9,52	22,2	4,8	76,2	9,52	2+2	190.513.11
9,52	25,4	5,2	76,2	9,52	3+3	190.813.11
12	25	5,2	76	12	3+3	190.320.11
12,7	22,2	5,2	76,2	12,7	2+2	190.515.11
12,7	34,9	5,2	88,9	12,7	2+2	190.517.11

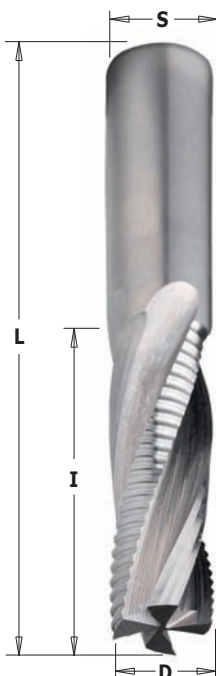
TECHNICAL DETAILS:

- Premium quality HWM
- 2+2 spiral cutting edges [Z2+2]
- 3+3 spiral cutting edges [Z3+3]
- Provide an excellent finish on both the upper and the lower side of the workpiece.

APPLICATION: used for cutting, copying, panel sizing and any routing application on solid wood, wood composites, plastic materials and laminates. Use a high feed speed on well-clamped workpieces.

Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Solid carbide upcut spiral bits



197

HWM Z4 RH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
12	42	90	12	197.121.11
14	50	110	14	197.140.11
16	55	110	16	197.160.11
16	35	90	16	197.161.11
18	55	110	18	197.180.11
20	60	120	20	197.200.11
20	70	120	20	197.201.11

TECHNICAL DETAILS:

- Premium quality HWM
- 4 spiral cutting edges (2 with chip-breaker) [Z2+2R]
- Max 0.1mm tooth depth
- Provide excellent finish on the lower side of the workpiece
- Upward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood and wood composites. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

The special 4 flute design (Z2 finishing + Z2R with chipbreaker) allows high speed with excellent finish on the workpiece.



Solid carbide upcut spiral bits with chip-breaker



Saw blades

Tools with bore & knives

Router Bits & Sets

CNC Router Cutter & Chucks

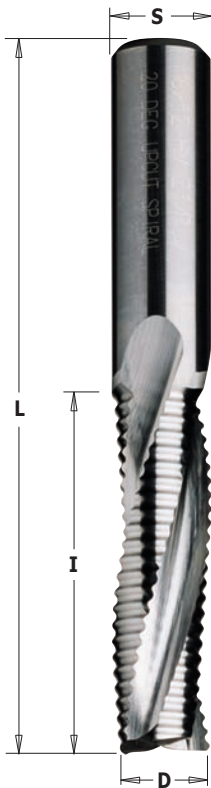
Industrial Dowel Drills

Bits for Hand Power Tools

Spare Parts

Power Tools & Accessoires

Display Cabinets



195



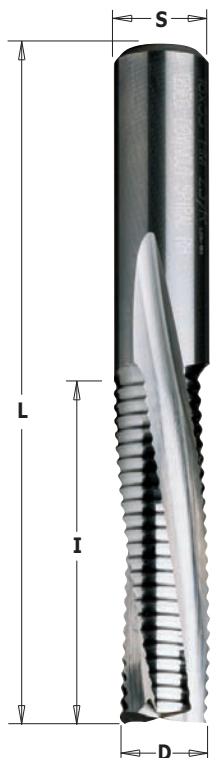
D mm	I mm	L mm	S mm	ORDER NO.	ORDER NO.
				Right-hand rotation	Left-hand rotation
8	32	80	8	195.081.11	195.081.12
8	42	90	8	195.082.11	
10	32	80	10	195.100.11	195.100.12
10	42	90	10	195.101.11	
12	35	80	12	195.120.11	195.120.12
12	42	90	12	195.121.11	
12	52	100	12	195.122.11	
12,7	38,1	88,9	12,7	195.506.11	
14	58	110	14	195.140.11	
15,88	54	109,5	15,88	195.509.11	
16	55	110	16	195.160.11	195.160.12
16	35	90	16	195.161.11	
18	55	110	18	195.180.11	
19,05	54	109,5	19,05	195.511.11	
20	60	120	20	195.200.11	195.200.12
20	72	120	20	195.201.11	

TECHNICAL DETAILS:

- Premium quality HWM
- 3 spiral cutting edges [Z3R]
- Chip breaker teeth
- Max 0.3mm tooth depth
- Provide an excellent finish on the lower side of the workpiece
- Upward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Solid carbide downcut spiral bits with chip-breaker



196



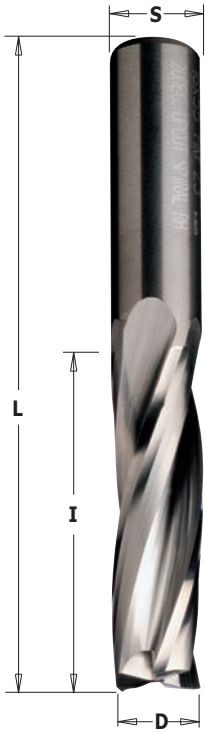
D mm	I mm	L mm	S mm	ORDER NO.	ORDER NO.
				Right-hand rotation	Left-hand rotation
8	32	80	8	196.081.11	
10	42	90	10	196.101.11	
12	35	80	12	196.120.11	196.120.12
12,7	38,1	88,9	12,7	196.506.11	
14	50	110	14	196.140.11	
15,88	54	109,5	15,88	196.509.11	
16	55	110	16	196.160.11	196.160.12
18	55	110	18	196.180.11	
19,05	54	109,5	19,05	196.511.11	
20	60	120	20	196.200.11	196.200.12

TECHNICAL DETAILS:

- Premium quality HWM
- 3 spiral cutting edges [Z3R]
- Chip breaker teeth
- Max 0.3mm tooth depth
- Provide excellent finish on the upper side of the workpiece
- Downward chip ejection.

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood and wood composites. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Solid carbide upcut spiral bits



193

HWM Z3 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
8	32	80	8	193.081.11	193.081.12
10	32	80	10	193.100.11	193.100.12
10	42	90	10	193.101.11	
12	35	80	12	193.120.11	193.120.12
12	42	90	12	193.121.11	
14	58	110	14	193.140.11	
16	55	110	16	193.160.11	193.160.12
16	35	90	16	193.161.11	
18	55	110	18	193.180.11	
20	60	120	20	193.200.11	193.200.12
20	70	120	20	193.201.11	

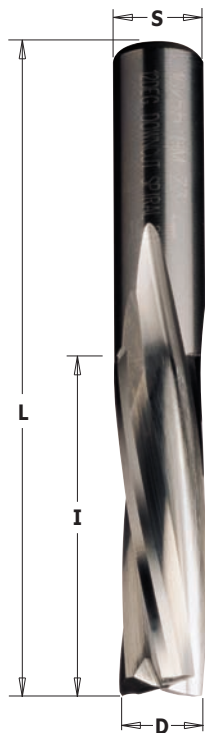
TECHNICAL DETAILS:

- Premium quality HWM
- 3 spiral cutting edges [Z3]
- Provide an excellent finish on the lower side of the workpiece
- Upward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces.

Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Solid carbide spiral bits downcut



194

HWM Z3 RH LH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation
10	32	80	10	194.100.11	
12	35	80	12	194.120.11	194.120.12
14	50	110	14	194.140.11	
16	55	110	16	194.160.11	194.160.12
16	35	90	16	194.161.11	
18	55	110	18	194.180.11	
20	60	120	20	194.200.11	194.200.12

TECHNICAL DETAILS:

- Premium quality HWM
- 3 spiral cutting edges [Z3]
- Provide an excellent finish on the upper side of the workpiece
- Downward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, wood composites, plastic materials and laminates.

Can be used at a high feed speed on small, difficult to clamp workpieces.

Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Saw blades

Tools with bore & Knives

Router Bits & Sets

CNC Router Cutter & Chucks

Industrial Dowel Drills

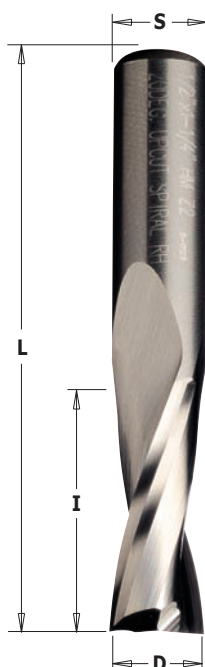
Bits for Hand Power Tools

Spare Parts

Power Tools & Accessories

Display Cabinets

Solid carbide upcut spiral bits



191

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
3	12	50	3	191.030.11
3	12	60	6	191.630.11
3	12	60	8	191.830.11
3,18	12,7	50,8	6,35	191.001.11
3,5	12	60	6	191.635.11
3,97	12,7	50,8	6,35	191.003.11
4	15	50	4	191.040.11
4	15	60	6	191.640.11
4	15	60	8	191.840.11
4,76	19,05	50,8	6,35	191.005.11
5	17	50	5	191.050.11
5	17	60	6	191.650.11
5	17	60	8	191.850.11
6	27	70	6	191.060.11
6	27	70	8	191.860.11
6,35	19,05	50,8	6,35	191.007.11
6,35	25,4	63,5	6,35	191.008.11
7	32	80	8	191.870.11
7,94	25,4	76,2	12,7	191.501.11
8	22	70	8	191.080.11
8	32	80	8	191.081.11
8	42	90	8	191.082.11
9	32	80	12	191.890.11
9,52	31,75	76,2	12,7	191.503.11
10	32	80	8	191.800.11
10	32	80	10	191.100.11
10	32	80	12	191.900.11
10	42	90	10	191.101.11
10	42	90	12	191.901.11
12	35	80	8	191.820.11
12	35	80	12	191.120.11
12	42	90	12	191.121.11
12	52	100	12	191.122.11
12,7	31,75	76,2	12,7	191.505.11
12,7	38,1	88,9	12,7	191.506.11
12,7	50,8	101,6	12,7	191.507.11
14	50	110	14	191.140.11
15,88	55	109,5	15,88	191.509.11
16	55	110	16	191.160.11
16	35	90	16	191.161.11
19,05	55	109,5	19,05	191.511.11
20	60	120	20	191.200.11

TECHNICAL DETAILS:

- Premium quality HWM
- 2 spiral cutting edges [Z2]
- Provide an excellent finish on the lower side of the workpiece
- Upward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, wood composites, plastic materials and laminates.

Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Saw blades

Tools with bore & knives

Router Bits & Sets

CNC Router Cutter & Chucks

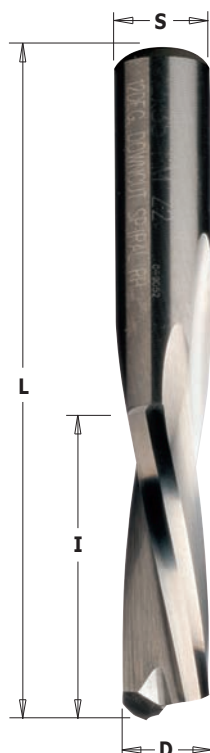
Industrial Dowel Drills

Bits for Hand Power Tools

Spare Parts

Power Tools & Accessories

Display Cabinets



192

HWM Z2 RH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
3	12	50	3	192.030.11
3	12	60	6	192.630.11
3	12	60	8	192.830.11
3,18	12,7	50,8	6,35	192.001.11
3,97	12,7	50,8	6,35	192.003.11
4	15	50	4	192.040.11
4	15	60	6	192.640.11
4	15	60	8	192.840.11
4,76	19,05	50,8	6,35	192.005.11
5	17	50	5	192.050.11
5	17	60	6	192.650.11
5	17	60	8	192.850.11
6	27	70	6	192.060.11
6	27	70	8	192.860.11
6,35	19,05	50,8	6,35	192.007.11
6,35	25,4	63,5	6,35	192.008.11
7,94	25,4	76,2	12,7	192.501.11
8	22	70	8	192.080.11
8	32	80	8	192.081.11
8	42	90	8	192.082.11
9,52	31,75	76,2	12,7	192.503.11
10	32	80	8	192.800.11
10	32	80	10	192.100.11
10	32	80	12	192.900.11
12	35	80	8	192.820.11
12	35	80	12	192.120.11
12,7	31,75	76,2	12,7	192.505.11
12,7	38,1	88,9	12,7	192.506.11
12,7	50,8	101,6	12,7	192.507.11
16	55	110	16	192.160.11

TECHNICAL DETAILS:

- Premium quality HWM
- 2 spiral edges [Z2]
- Provide an excellent finish on the upper side of the workpiece
- Downward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, wood composites, plastic materials and laminates.

Can be used at a high feed speed on small, difficult to clamp work pieces.

Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

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

Solid carbide upcut spiral bits with chip-breaker for locksets



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



195

HWM Z3R RH

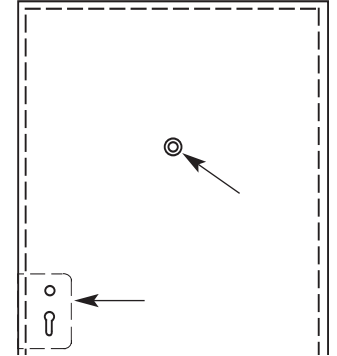
D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
14	95*	150	14	195.142.11
16	95*	150	16	195.162.11
18	95*	150	18	195.182.11

* The 95mm length is achieved in 2-3 passes.

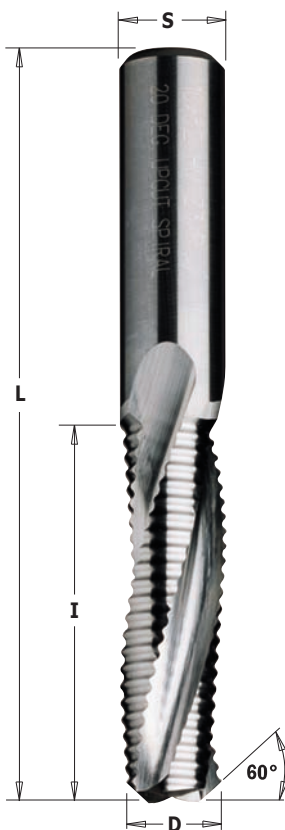
TECHNICAL DETAILS:

- Premium quality HWM
- 3 spiral cutting edges [Z3R]
- Chip breaker teeth
- Max 0.3mm tooth depth
- Provide an excellent finish on the lower side of the workpiece
- Upward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.



Solid carbide upcut with spiral bits chip-breaker for 60° V-point locksets



195.143/163

HWM Z3R RH

D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
14	58	110	14	195.143.11
16	55	110	16	195.163.11

Solid carbide upcut spiral bits without chip-breaker for 60° V-point locksets

191.143/163

HWM Z3 RH

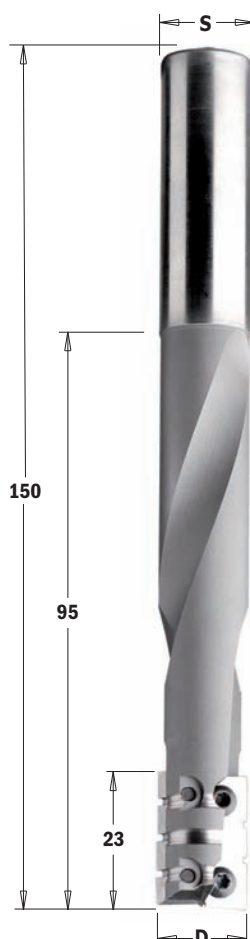
D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
14	50	110	14	191.143.11
16	55	110	16	191.163.11

TECHNICAL DETAILS:

- Premium quality HWM
- 3 spiral cutting edges [Z3]
- Provide an excellent finish on the lower side of the workpiece
- Upward chip ejection

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces. Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

Spiral bits with insert knives and chip-breaker for locksets



662

INSERT CARBIDE Z2R RH

D	I	L	S	ORDER NO.
mm	mm	mm	mm	Right-hand rotation
16	23/95*	150	16	662.160.11

Spare parts

23x7x1.5mm 2-RT HW-HC knives	790.230.2R
23x7x1.5mm 3-RT HW-HC knives	790.230.3R
M3x4mm T9 Torx screw	990.082.00
T9 Torx key	991.069.00

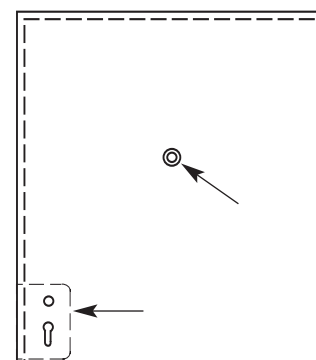
* The 95mm length is achieved in 3-4 passes.

TECHNICAL DETAILS:

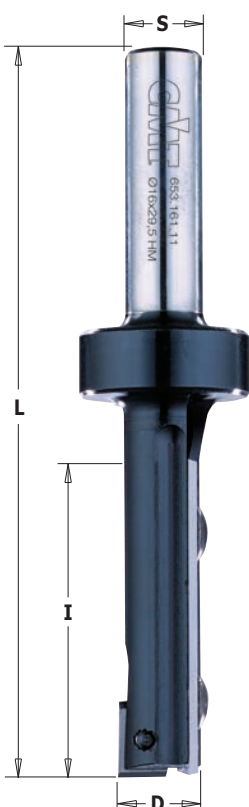
- Super strength steel (heavy-duty material)
- 2 cutting edges [Z2R]
- Chip-breaker teeth

APPLICATION: used for ripping, template routing, panel sizing and any routing application on solid wood, or wood composites. Can be used at a high feed speed on well-clamped workpieces.

Can be used on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.



Straight router cutters with insert knives



653

INSERT CARBIDE Z1+1 RH

D	I	L	S	Spare knives		ORDER NO.
				side	top	
mm	mm	mm	mm			Right-hand rotation
16	28,3	91,5	20	790.283.12	790.075.00	653.661.11
16	48,3	111,5	20	790.483.12	790.075.00	653.662.11
18	48,3	111,5	20	790.483.12	790.075.00	653.681.11
20	48,3	111,5	20	790.483.12	790.096.00	653.701.11

Spare parts

7,5x12x1,5mm knife	790.075.00
9,6x12x1,5mm knife	790.096.00
28,3x12x1,5mm knife	790.283.12
48,3x12x1,5mm knife	790.483.12
M3,5x3,5mm Torx screw	990.072.00
M4x3,5mm Torx screw	990.074.00
M4x6mm Torx screw	990.075.00
T15 Torx key	991.061.00

TECHNICAL DETAILS:

- Super strength steel
- 2 cutting edges [Z1+1]

APPLICATION: straight router bit with one replaceable plunging knife and one side knife fixed by special Torx screws. The body is precise balanced. For finishing and routing, plunge cutting and grooving in boards materials (laminated chipboards, MDF) and hardwood. For use on CNC machining centres.

DP router cutters with shear angle



141

DP Z1+1 Z1 RH



D mm	I mm	L mm	S mm	Z	ORDER NO. Right-hand rotation
6	8	65	12x40	1	141.060.61
8	12	65	12x40	1	141.080.61
*10	22	75	12x40	1+1	141.101.61

TECHNICAL DETAILS:

- Super strength steel
- DP cutting edge
- HW plunging tip for diagonal plunge-cutting
- Resharpenable cutter (max 3 times)
- Max feed speed 4 m/min

40X
LONGER LIFE
THAN CARBIDE

APPLICATION: to be used on all CNC routers for jointing and sizing of solid wood and wood-based panels

* Z1+1
CONSTRUCTION
FOR 141.101.61
ITEM



DP router cutters with shear angle



140

DP Z1+1 RH



D mm	I mm	L mm	S mm	Z	ORDER NO. Right-hand rotation
12	27	75	12x40	1+1 (3 DP+1 HW)	140.120.61
12	35	84	12x40	1+1 (4 DP+1 HW)	140.121.61
12,7	27	75	12,7x40	1+1 (3 DP+1 HW)	140.127.61
12,7	35	84	12,7x40	1+1 (4 DP+1 HW)	140.128.61
15,87	27	87	15,87x50	1+1 (3 DP+1 HW)	140.158.61
15,87	44	103	15,87x50	1+1 (5 DP+1 HW)	140.159.61
16	27	87	16x50	1+1 (3 DP+1 HW)	140.160.61
16	35	95	16x50	1+1 (4 DP+1 HW)	140.161.61
18	27	87	20x50	1+1 (3 DP+1 HW)	140.180.61
18	35	95	20x50	1+1 (4 DP+1 HW)	140.181.61
18	44	103	20x50	1+1 (5 DP+1 HW)	140.182.61
19,05	27	87	19,05x50	1+1 (3 DP+1 HW)	140.190.61
19,05	44	103	19,05x50	1+1 (5 DP+1 HW)	140.192.61
20	27	87	20x50	1+1 (3 DP+1 HW)	140.200.61
20	35	95	20x50	1+1 (4 DP+1 HW)	140.201.61
20	44	103	20x50	1+1 (5 DP+1 HW)	140.202.61
20	53	112	20x50	1+1 (6 DP+1 HW)	140.203.61

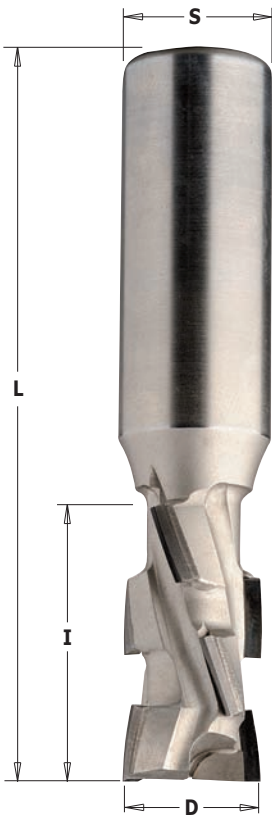
TECHNICAL DETAILS:

- Super strength steel
- DP cutting edge
- HW plunging tip for diagonal plunge-cutting (Z-axis tool entrance)
- Resharpenable cutter (max 3 times)
- Max feed speed 5 m/min

40X
LONGER LIFE
THAN CARBIDE

APPLICATION: to be used on all CNC routers for jointing, rabbeting, grooving and copying of raw material, melamine and laminates, MDF, HPL and veneered panels.

DP router cutters with shear angle



142

DP Z2+2 RH

D mm	I mm	L mm	S mm	Z	ORDER NO. Right-hand rotation
20	27	85	20x50	2+2 (6 DP+1 HW)	142.200.61
20	36	95	20x50	2+2 (8 DP+1 HW)	142.201.61
20	45	105	20x50	2+2 (10 DP+1 HW)	142.202.61
20	54	115	20x50	2+2 (12 DP+1 HW)	142.203.61

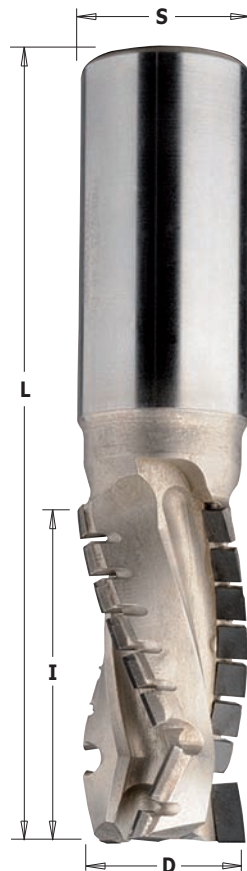
TECHNICAL DETAILS:

- Super strength steel
- DP cutting edge
- HW plunging tip for diagonal plunge-cutting (Z-axis tool entrance)
- Resharpenable cutter (max 3 times)
- Max feed speed 10 m/min

40X
LONGER LIFE
THAN CARBIDE

APPLICATION: to be used on all CNC routers for jointing, rabbeting, grooving, copying and dividing cuts of raw material, melamine and laminates, MDF, HPL and veneered panels.

DP spiral router cutters with shear angle



143

DP Z3 RH

D mm	I mm	L mm	S mm	Z	ORDER NO. Right-hand rotation
22	30	90	25x50	3 (12 DP+1 HW)	143.220.61
□ 22	35	95	25x50	3 (15 DP+1 HW)	143.221.61
22	40	100	25x50	3 (18 DP+1 HW)	143.222.61
□ 22	45	105	25x50	3 (20 DP+1 HW)	143.223.61
22	50	110	25x50	3 (21 DP+1 HW)	143.224.61
□ 22	55	115	25x50	3 (24 DP+1 HW)	143.225.61
22	60	120	25x50	3 (27 DP+1 HW)	143.226.61
□ 22	65	125	25x50	3 (29 DP+1 HW)	143.227.61
□ 22	70	130	25x50	3 (30 DP+1 HW)	143.228.61

TECHNICAL DETAILS:

- Super strength steel
- DP cutting edge
- HW plunging tip for diagonal plunge-cutting (Z-axis tool entrance)
- Resharpenable cutter (max 6 times)
- Max feed speed 25 m/min

40X
LONGER LIFE
THAN CARBIDE

APPLICATION: to be used on all CNC routers for jointing, rabbeting, grooving, copying and dividing cuts of raw material, melamine and laminates, MDF, HPL and veneered panels. High performance on pre-and finish-routing.

□ On request

Solid carbide router cutters

Saw blades

Tools with bore & knives

Router Bits & Sets

CNC Router Cutter & Chucks

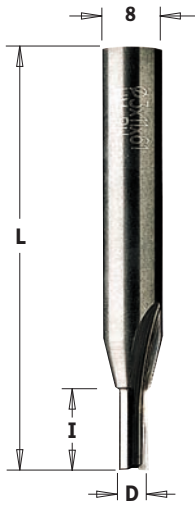
Industrial Dowel Drills

Bits for Hand Power Tools

Spare Parts

Power Tools & Accessories

Display Cabinets



174



D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
3	10	55	8	174.030.11
4	10	55	8	174.040.11
5	12	55	8	174.050.11
6	14	55	8	174.060.11
7	20	55	8	174.070.11

TECHNICAL DETAILS:
 - Premium quality HWM
 - 2 radial relief cutting edges [Z2]

Router cutters



174



D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
8	20	55	8	174.080.11
8	30	70	8	174.081.11
8	40	90	8	174.082.11
9	20	55	8	174.090.11
10	20	60	8	174.100.11
10	30	70	8	174.102.11
10	40	90	8	174.101.11
11	20	60	8	174.110.11
12	20	60	8	174.120.11
12	30	70	8	174.122.11
12	40	90	8	174.121.11
13	20	60	8	174.130.11
14	20	60	8	174.140.11
14	30	70	8	174.142.11
14	40	90	8	174.141.11
15	20	60	8	174.150.11
16	20	70	8	174.160.11
16	30	70	8	174.162.11
16	40	90	8	174.161.11
18	20	70	8	174.180.11
18	30	70	8	174.181.11
18	40	80	8	174.182.11
19	20	70	8	174.190.11
20	20	70	8	174.200.11
20	30	70	8	174.201.11
20	40	90	8	174.202.11
22	20	70	8	174.220.11
22	30	70	8	174.221.11
22	40	90	8	174.222.11
24	20	70	8	174.240.11
24	30	70	8	174.241.11
24	40	90	8	174.242.11
25	20	70	8	174.250.11
26	20	70	8	174.260.11
26	30	70	8	174.261.11
28	20	70	8	174.280.11
28	30	70	8	174.281.11
29	20	70	8	174.290.11
30	20	70	8	174.300.11

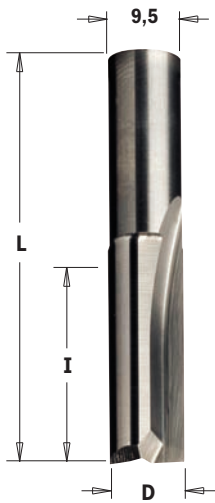


HW plunge centre tip

TECHNICAL DETAILS:
 - Super strength steel
 - 2 precision ground HW cutting edges
 and 1 HW plunge centre tip [Z2+1]

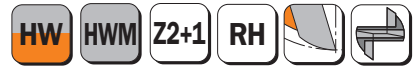
APPLICATION: used for drilling, grooving or jointing on solid wood and wood composites.
 Can be used on machining centres, CNC routers and hand-held routers equipped with chucks or adaptors.

Solid carbide router cutters



HW plunge centre tip

112

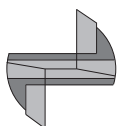


D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
3	10	37	9,5	112.030.11
4	10	37	9,5	112.040.11
5	12	39	9,5	112.050.11
6	14	41	9,5	112.060.11
7	16	43	9,5	112.070.11
8	18	48	9,5	112.080.11
8	30	60	9,5	112.081.11
9	20	52	9,5	112.090.11
10*	22	52	9,5	112.100.11
10*	35	65	9,5	112.101.11
11*	26	52	9,5	112.110.11
12*	26	52	9,5	112.120.11

* Super strength steel
2 precision ground HW cutting edges [Z2+1]

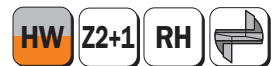
TECHNICAL DETAILS:
- Premium quality HWM
- 2 radial relief cutting edges [Z2+1]

Router cutters



HW plunge centre tip

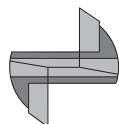
113



D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
12	26	52	12	113.120.11
12	40	70	12	113.121.11
13	26	52	12	113.130.11
14	28	56	12	113.140.11
14	40	72	12	113.141.11
15	32	60	12	113.150.11
16	32	60	12	113.160.11
16	40	72	12	113.161.11
17	35	64	12	113.170.11
18	35	64	12	113.180.11
19	38	68	12	113.190.11
20	38	68	12	113.200.11
22	40	72	12	113.220.11
24	40	72	12	113.240.11
25	40	72	12	113.250.11
26	42	74	12	113.260.11
28	42	74	12	113.280.11
30	42	74	12	113.300.11

TECHNICAL DETAILS:
- Super strength steel
- 2 precision ground HW cutting edges and 1 HW plunge centre tip [Z2+1]

APPLICATION: used for grooving, jointing and routing on solid wood, wood composites, plastic materials and laminates.

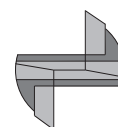


HW plunge centre tip

TECHNICAL DETAILS:

- Premium quality HWM
- 2 radial relief cutting edges [Z2]
- 1 HW [Z1] plunge centre tip

APPLICATION: for grooving, jointing and routing on solid wood, wood composites, plastic materials and laminates.



HW plunge centre tip

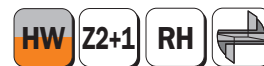
175



D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
• 4	10	65	10	175.040.11
• 5	12	65	10	175.050.11
• 6	14	65	10	175.060.11
• 7	17	65	10	175.070.11
8	20	65	10	175.080.11
10	25	70	10	175.100.11
12	25	70	10	175.120.11
14	25	70	10	175.140.11
15	25	70	10	175.150.11
16	25	70	10	175.160.11
18	25	70	10	175.180.11
20	25	70	10	175.200.11
22	25	70	10	175.220.11
24	25	70	10	175.240.11
25	25	70	10	175.250.11
26	25	70	10	175.260.11
30	25	70	10	175.300.11
35	25	70	10	175.350.11

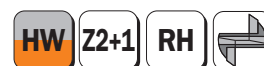
• HWM

176



D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
10	40	87	10	176.100.11
12	40	87	10	176.120.11
14	40	87	10	176.140.11
15	40	87	10	176.150.11
16	40	87	10	176.160.11
18	40	87	10	176.180.11
20	40	87	10	176.200.11

177



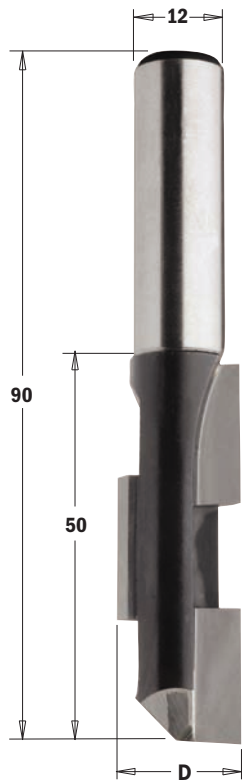
D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
10	35	90	12	177.100.11
12	35	90	12	177.120.11
12	50	100	12	177.121.11
14	35	90	12	177.140.11
16	35	90	12	177.160.11
16	60	110	12	177.161.11
18	35	90	12	177.180.11
18	60	110	12	177.181.11
20	35	90	12	177.200.11
22	35	90	12	177.220.11
24	35	90	12	177.240.11
25	35	90	12	177.250.11
26	35	90	12	177.260.11
28	35	90	12	177.280.11
30	35	90	12	177.300.11
35	35	90	12	177.350.11

TECHNICAL DETAILS:

- Super strength steel
- 2 precision ground HW cutting edges and 1 HW plunge centre tip [Z2+1]

APPLICATION: used for grooving, jointing and general routing operation on solid wood, wood composites, plastics and laminates. Can be used on machining centres, CNC routers and hand-held routers.

Router cutters for drywall openings



136



D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
14	50	90	12	136.140.11
16	50	90	12	136.160.11
18	50	90	12	136.180.11

TECHNICAL DETAILS:

- Super strength steel
- 2 alternating precision ground HW [Z1+1]

APPLICATION: ideal for cutting openings for electrical boxes and similar operation on solid wood, wood composites, plastics and laminates. Can be used on machining centres, CNC routers and hand-held routers equipped with chucks or adaptors.

Spoilboard surfacing router cutters with insert knives



663.001.11



D mm	I mm	L mm	S mm	ORDER NO. Right-hand rotation
80	12	90	20	663.001.11

Spare parts

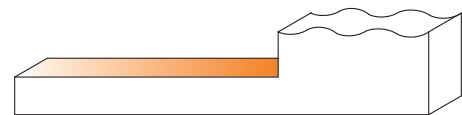
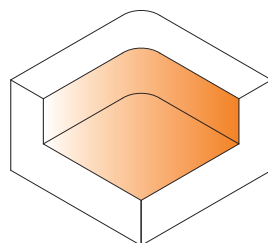
12x12x1,5mm knife	790.120.00
M4x6mm Torx T15 screw	990.075.00
T15 Torx key	991.061.00
14x14x2mm knife	790.140.00
M6x10mm TCEI screw	990.083.00
3mm allen key	991.067.00

TECHNICAL DETAILS:

- Super strength steel
- 2 cutting edges [Z2]
- 2 scores knives [V2]

APPLICATION: new router bit for CNC router ideal for fast removal of material over a large surface area leaving an improved finish at the bottom of the cut. Used on soft and hardwood, particle board and MDF. The cutter uses 4-sided inserts.

Cost effective solution compared to brazed router bits and solid carbide spiral bits.



Drawings are 1:2 scale

Adjustable chamfering CNC cutter

Saw blades

Tools with bore & Knives

Router Bits & Sets

CNC Router Cutter & Chucks

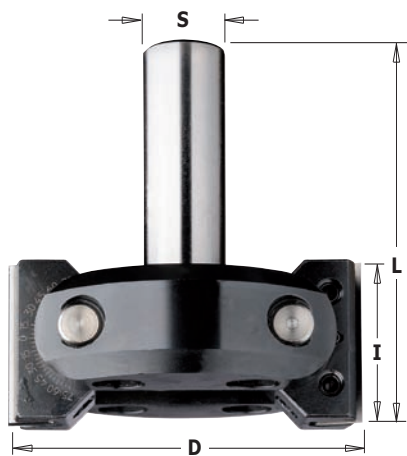
Industrial Dowel Drills

Bits for Hand Power Tools

Spare Parts

Power Tools & Accessories

Display Cabinets



663.201.11



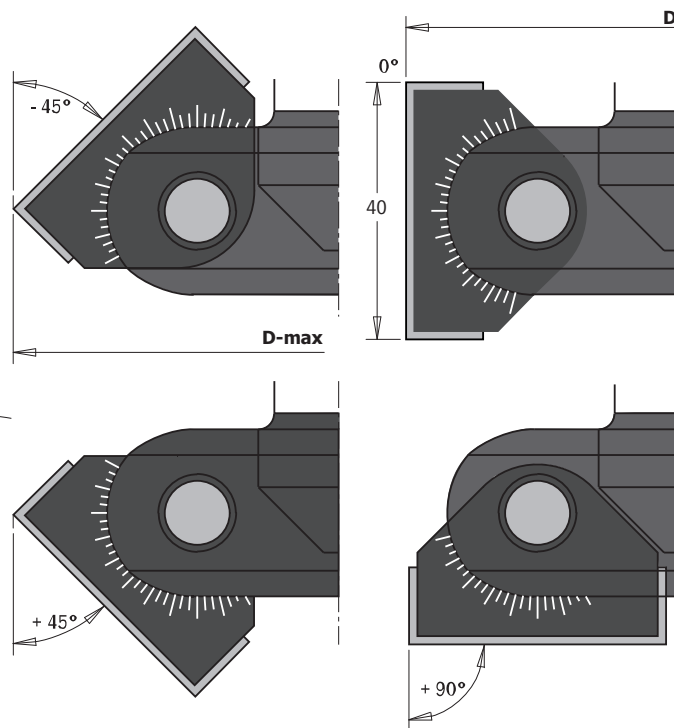
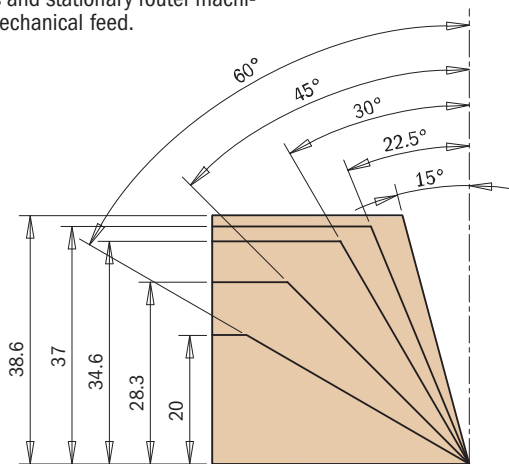
D	D_Max 45°	I	A	L	S	ORDER NO.
mm	mm	mm		mm	mm	Right-hand rotation
85	102	40	0°-45°	92	20	663.201.11

Spare parts

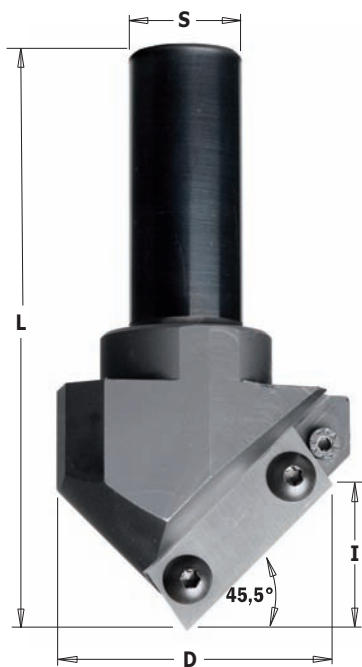
40x12x1,5mm knife	790.400.00
38x6x12mm wedge	663.999.01
M6x8mm STEI screw (4x2mm threaded pin)	990.087.00
3mm hex key	991.067.00
Kit with 2 wedges and 1 screw for blocking rotation	663.999.02
M8x25mm TCEI screw	990.099.00
M8 nut (4mm)	990.023.00
4mm "T" hex key	991.081.00

TECHNICAL DETAILS: tool body in steel, two TC reversible knives in swiveling blade carriers. Cutting on periphery and both sides. Swiveling range towards top 0-45°, toward bottom 0-90°, infinitely variable adjustment according to precise scale. With positive stops at 7,5° through adjustment aide. No displacement of adjusted beveling angle when replacing blades. Right rotation.

APPLICATION: for jointing, rebating and chamfering of solid wood and wooden boards. Suitable for CNC router machines and stationary router machine with manual or mechanical feed.



V-groove - folding - signmaking CNC router cutters with insert knives



663.101.11



D	I	L	S	ORDER NO.
mm	mm	mm	mm	Right-hand rotation
52	25	100	20	663.101.11

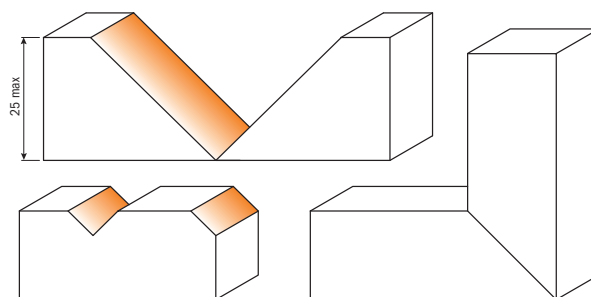
Spare parts

36x12x1,5mm knife	790.360.01
M3,5x7mm Torx screw	990.077.00
T15 Torx key	991.061.00

TECHNICAL DETAILS:

- Super Strength steel
- 1 cutting edges [Z1]

APPLICATION: This innovative CNC router bit offers you an endless range of possibilities for V-Groove, miter folds, signmaking, lettering and chamfer edges. The tool mounts a high grade HWM reversible knife ideal for general purpose, chipboard and plywood, but a higher quality is available for laminated and MDF material.



Complete set for decorating and engraving



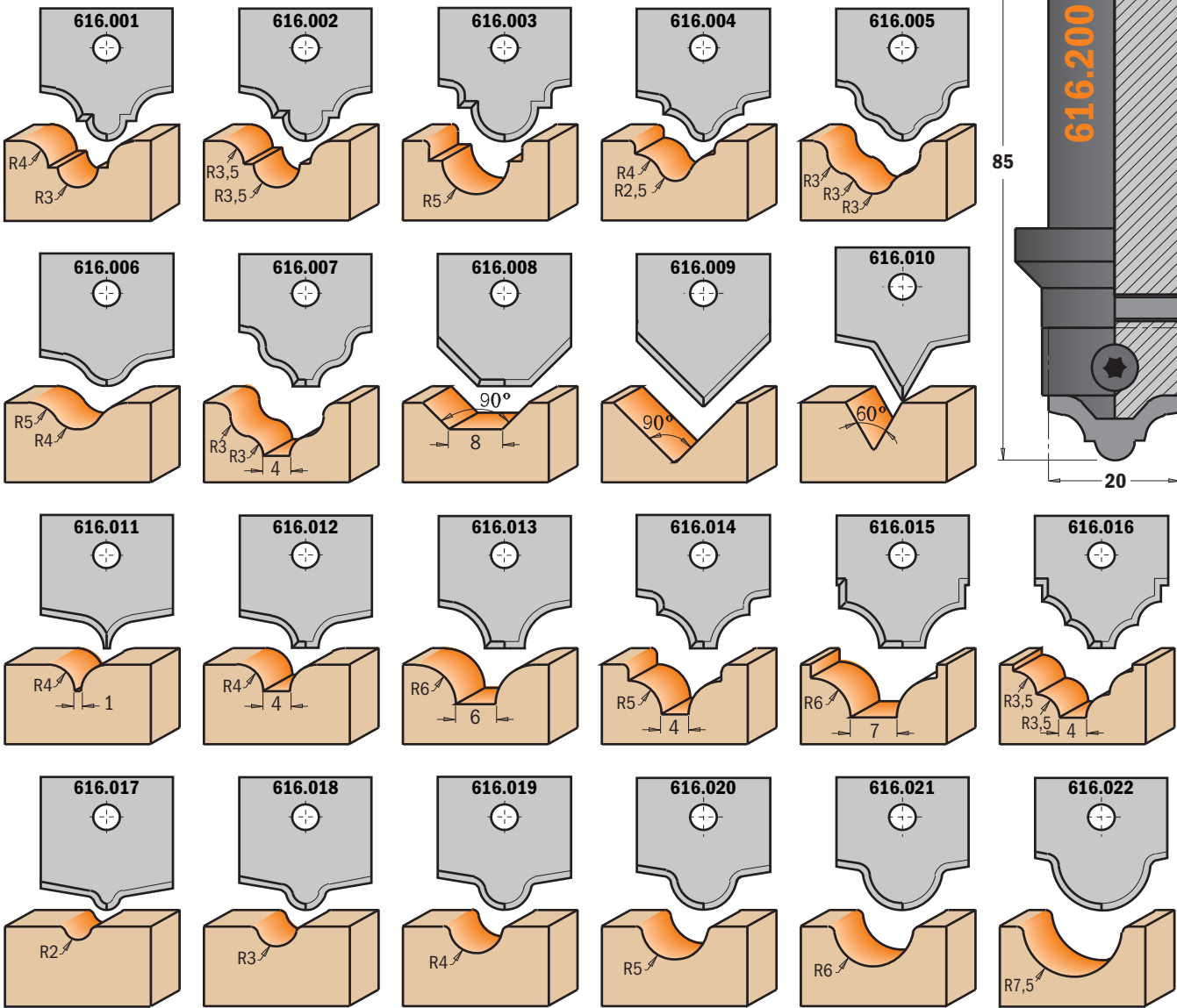
616.000.01



This unique system includes a tool body with 22 profile knives designed for multiple applications on your CNC routers. Ideal for MDF, laminates, veneers, plastic, wood and solid surface materials.

TECHNICAL DETAILS:

- Knives 20x20x2mm
- We recommend to re-sharpen the knives on the profiled cutting edges.



Drawings are 1:1 scale

DESCRIPTION	S mm	ORDER NO. Right-hand rotation	Spare parts		
Complete set for decorating and engraving	20	616.000.01	616.200	990.077.00	991.061.00

Remark: tool body and insert knives can be sold individually.

Complete set for MDF doors



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

200



615.004.01



Open some new doors with CMT. Our 4-piece set includes the most popular profile to make MDF panel doors for kitchens and bathrooms. Each bit is made from bar stock steel and is equipped with 5 different profile knives allowing enormous possibilities for easy and economical construction. The highest materials, the lowest tolerance in balancing and the precision in the sharpening of the knives let you obtain a smooth finish on your CNC machine.

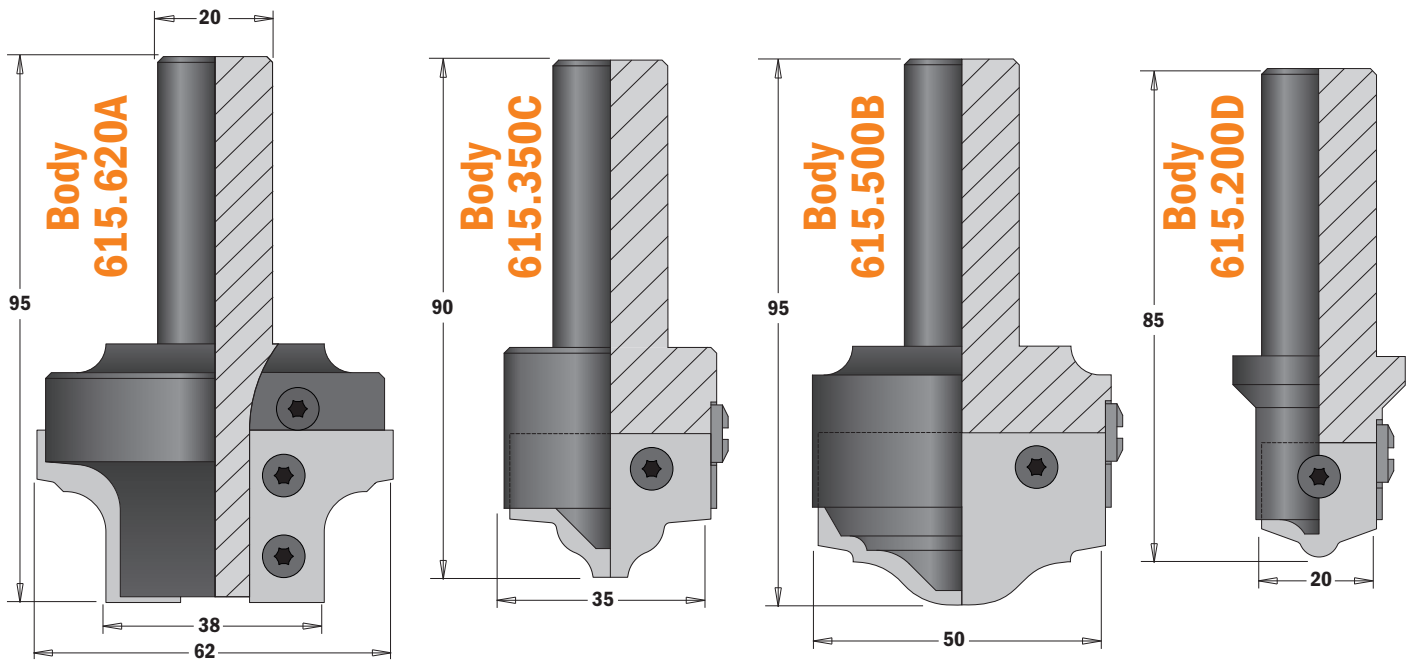
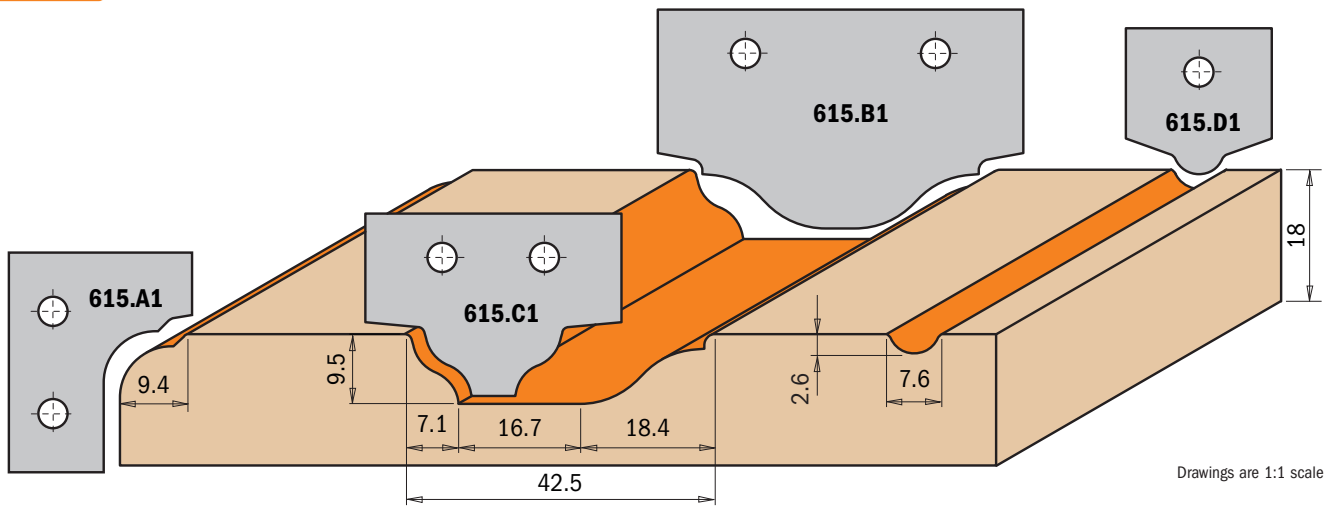


Spare parts

T15 Torx key	991.061.00
M3,5x5mm Torx screw	990.073.00
M4x6mm Torx screw	990.075.00
M3,5x7mm Torx screw	990.077.00

Standard

Profile No. 1



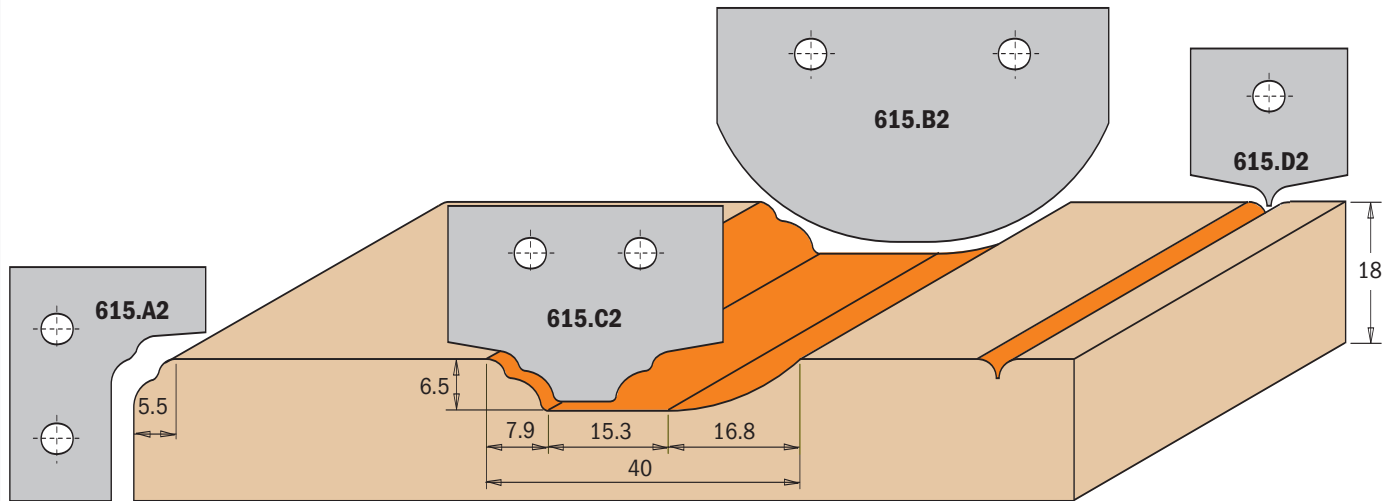
DESCRIPTION	S mm	ORDER NO.
Complete set for MDF doors (Profile no. 1)	20	Right-hand rotation 615.004.01

Complete set for MDF doors

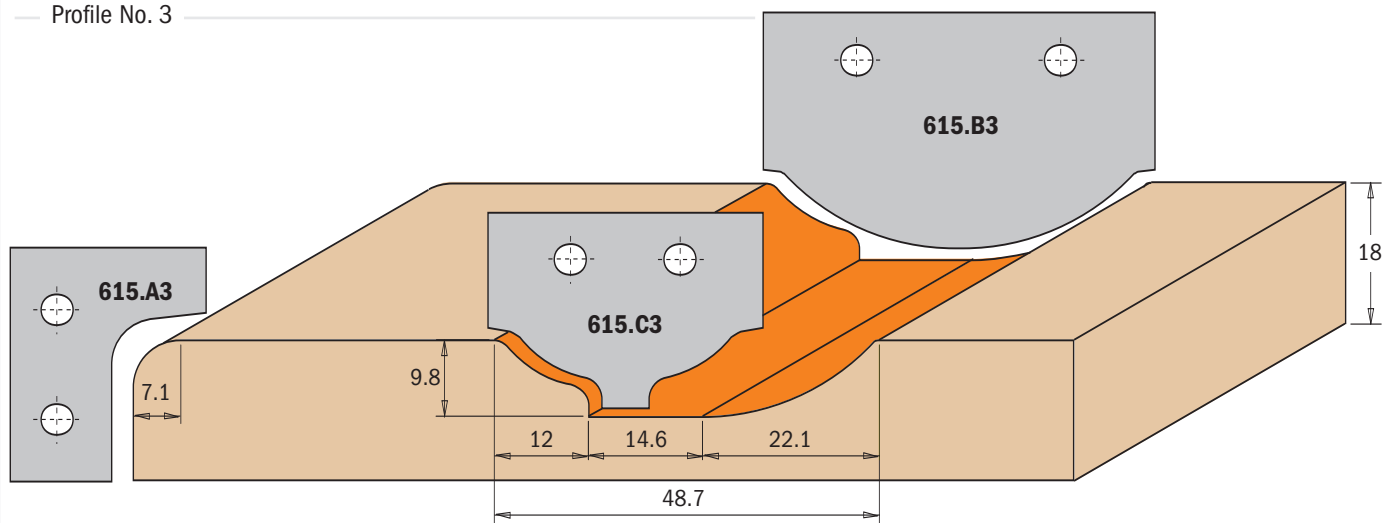
insert knives for optional profiles

Optional

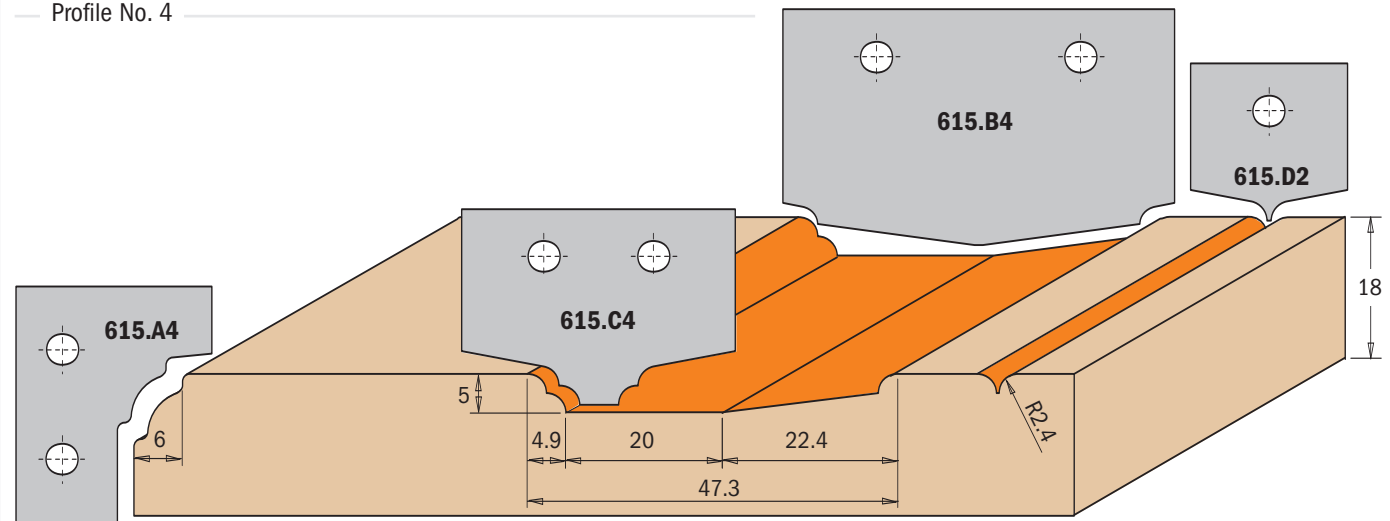
Profile No. 2



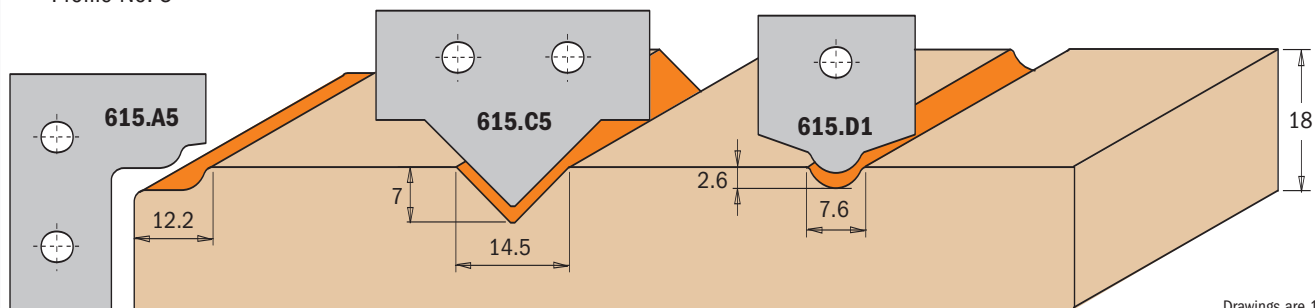
Profile No. 3



Profile No. 4



Profile No. 5



Drawings are 1:1 scale

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