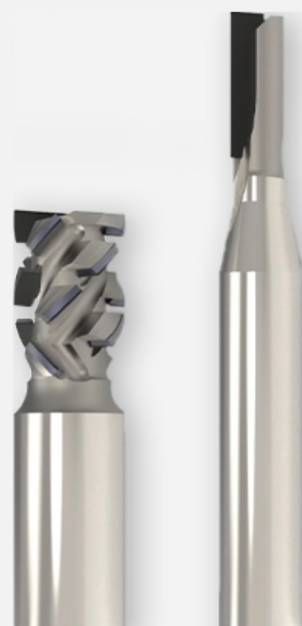


Diamond Cutting Tools for Wood, Plastic and Fibres

Routing

PCD cutters for Routing operations



PCD CUTTING TOOLS FOR WOOD, PLASTIC AND FIBRES PROCESSING INDUSTRIES



Production plants and R&D facilities in Europe and North America enable Cruing to supply tested and award winning products worldwide.



JEC Europe



JEC Americas

CHALLENGERS



WINNER 2008



Institut für
Werkzeugmaschinen



Universität Stuttgart



Fraunhofer IPA



HBG
Holz-Berufsgenossenschaft



DGUV Test



HO 082004



Sicherheit geprüft
tested safety



HO 082007



Sicherheit geprüft
tested safety



HO 122002



Sicherheit geprüft
tested safety



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =



For more than 50 years, Cruing provides and suggests the latest solutions in wood and plastic machining and offers a wide range of qualified PCD cutting tools for almost all segments and applications within the furniture, woodworking and housing industries.

No matter whether you produce furniture, kitchens, joinery components, floors or windows - in chipboard, MDF or solid wood, plasterboard, fibre cement, plastics or resins - you need the best possible tooling solution, professional service and application consulting.

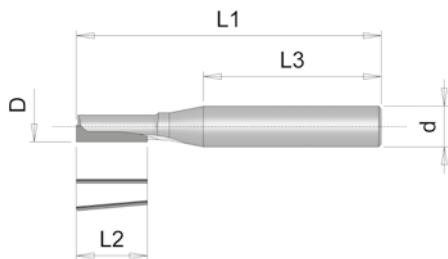
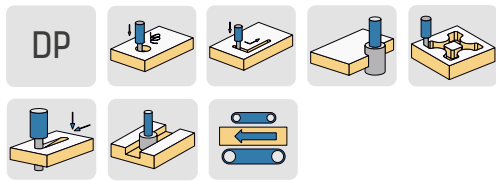


STANDARD AND SPECIAL CUTTING TOOLS

A complete range of standard tools is at your disposal, but if you have specific requirements, we can offer a wide range of special designs to suit your needs. Improved tool designs and concepts are constantly being developed in order to give you the latest cutting technology.



Routing



Z1 Groove Cutter Cylindrical shank

Technical features:

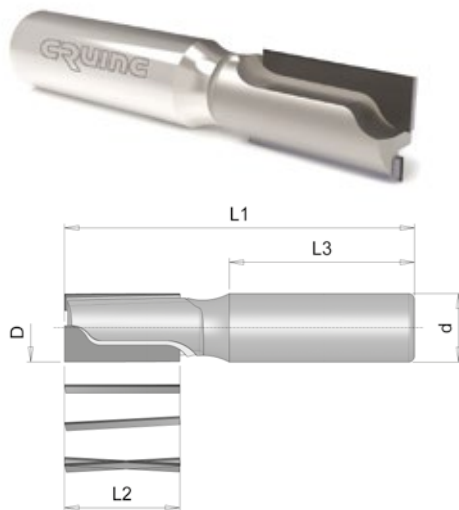
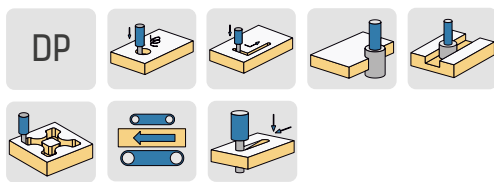
- Straight and negative axial angles
- Polished face
- DP plunge tip for diagonal plunge-cutting
- 1 PCD cutting edge
- Solid carbide body
- Economy and performance
- Resharpenable router (max 2 times)

Applications:

- For CNC routers
- For jointing and sizing without overlap marks in:
 - Wood
 - base panels
 - Solid woods
 - Plastics

D	L2	d	L3	L1	Z	Axial Angle	Code (RH)
4	12	6	40	60	1	straight	DPO1005D
5	12	6	40	60	1	straight	DPO1010D
6	12	6	40	60	1	straight	DPO1015D
8	12	8	35	60	1	straight	DPO1020D
4	12	6	40	60	1	negative	DPO1025D
5	12	6	40	60	1	negative	DPO1030D
6	12	6	40	60	1	negative	DPO1035D
8	12	8	35	60	1	negative	DPO1040D

Routing



Z2 Groove Cutter Cylindrical shank

Technical features:

- Straight, negative and alternate axial angles
- Polished face
- PCD plunge tip for diagonal plunge-cutting
- 2 PCD cutting edges
- Steel body; solid carbide body for Ø 8mm, 10mm and 12mm
- Economy and performance
- Resharpenable router (max 2 times for Ø up to 12mm and max 4 times for Ø 16mm)

Applications:

- For CNC routers
- For jointing and sizing without overlap marks in:
 - Wood-base panels
 - Solid woods
 - Plastics
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Axial Angle	Code (RH)
8	12	12	40	60	2	straight	DPO2005D
10	22	12	35	70	2	straight	DPO2010D
12	25,4	12	35	70	2	straight	DPO2015D
16	25,4	16	45	85	2	straight	DPO2020D
16	35	16	45	95	2	straight	DPO2025D
8	12	12	40	60	2	negative	DPO2030D
10	22	12	35	70	2	negative	DPO2035D
12	25,4	12	35	70	2	negative	DPO2040D
16	25,4	16	45	85	2	negative	DPO2045D
16	35	16	45	95	2	negative	DPO2050D
8	12	12	40	60	2	alternate	DPO2055D
10	22	12	35	70	2	alternate	DPO2060D
12	25,4	12	35	70	2	alternate	DPO2065D
16	25,4	16	45	85	2	alternate	DPO2070D
16	35	16	45	95	2	alternate	DPO2075D

Routing

DP



Z1+1 MACH 1 Cutter Cylindrical shank

Technical features:

- Feed speed: up to 6 m/min
- Shear angle: 12° for Ø up to 12,7 mm
16° for Ø 16 mm
18° for Ø 18 mm
20° for Ø 20 mm
- 1+1 PCD cutting edges
- HW plunge tip for diagonal plunge-cutting
- Steel body
- Economy and performance
- First tip positive (6–8 mm) all the others negative
- Resharpenable router (max 2 times for Ø up to 12,7 mm and max 4 times from Ø 14 mm)

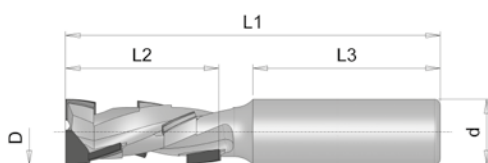
Applications:

- For CNC routers
- For jointing, rabbeting, grooving and copying:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
10	25,4	12	40	75	1+1		DP1M223D
12	25,4	12	40	75	1+1		DP1M201D
12	25,4	25	55	90	1+1	DP1M202S	DP1M202D
12	28	12	40	75	1+1	DP1M220S	DP1M220D
12,7	25,4	12,7	40	70	1+1	DP1H201S	DP1H201D
12,7	35	12,7	40	79	1+1		DP1H002D
12,7	43	12,7	44,45	101,6	1+1		DP1H204D
14	25,4	16	40	75	1+1		DP1M326D
16	25,4	16	40	75	1+1	DP1M301S	DP1M301D
16	35	16	40	85	1+1	DP1M303S	DP1M303D
18	25,4	20	50	85	1+1	DP1M307S	DP1M307D
18	28	20	50	90	1+1	DP1M324S	DP1M324D
18	35	20	50	95	1+1	DP1M311S	DP1M311D
18	43	20	50	105	1+1	DP1M314S	DP1M314D
20	51	20	50	120	1+1	DP1M316S	DP1M316D

Routing

DP



Z2+1 MACH 1 EVO Cutter Cylindrical shank

Technical features:

- Feed speed: up to 8 m/min
- Shear angle: 18° for Ø up to 12,7 mm
25° for Ø 16 mm
30° for Ø 18-20 mm
- Innovative Z2+1 design on 3 flutes
- PCD plunge tip for diagonal plunge-cutting
- 2+1 DP cutting edges
- Good cutting quality on bottom edge thanks to Z2 positive high shear angle
- First tip positive (6mm) all the others negative
- Resharpenable router (max 4 times)
- LH available on request

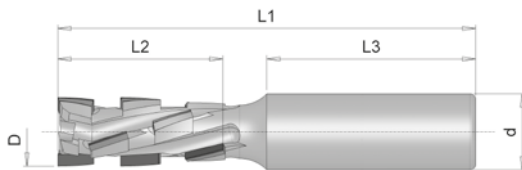
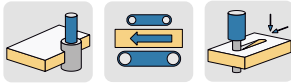
Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (RH)
12	25,4	12	40	75	2+1 (5)	DP1E005D
12	25,4	25	55	90	2+1 (5)	DP1E007D
12,7	25,4	12,7	40	72	2+1 (5)	DP1EH01D
12,7	35	12,7	40	82	2+1 (6)	DP1EH02D
16	25,4	16	45	80	2+1 (5)	DP1E00AD
16	35	16	45	90	2+1 (7)	DP1E00BD
18	25,4	20	55	90	2+1 (6)	DP1E00ED
18	35	20	55	100	2+1 (7)	DP1E00FD
18	43	20	55	110	2+1 (8)	DP1E00GD
20	51	20	55	115	2+1 (9)	DP1E00KD

Routing

DP



Z2+2 MACH 2 Cutter Cylindrical shank

Technical features:

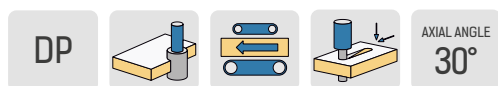
- Feed speed: up to 12 m/min
- Shear angle: 14° for Ø up to 12 mm
18° for Ø 16 mm
- 2+2 PCD cutting edges
- HW plunge tip for diagonal plunge-cutting
- Steel body; heavy metal body for Ø 12mm
- Economy and performance
- First tip positive (8mm) all the others negative
- Resharpenable router (max 4 times)

Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
12	25,4	12	40	75	2+2		DP2M323D
16	28	16	45	80	2+2		DP2M324D
16	35	16	45	90	2+2	DP2M325S	DP2M325D
18	25,4	20	50	85	2+2		DP2M303D
18	25,4	25	55	90	2+2	DP2M304S	DP2M304D
18	35	25	55	100	2+2	DP2M308S	DP2M308D
18	43	25	55	110	2+2	DP2M311S	DP2M311D
20	25,4	25	55	90	2+2	DP2M315S	DP2M315D
20	35	25	55	100	2+2	DP2M319S	DP2M319D
20	43	25	55	110	2+2	DP2M321S	DP2M321D
20	51	25	55	120	2+2	DP2M313S	DP2M313D
20	65	25	55	130	2+2	DP2M322S	DP2M322D

Routing



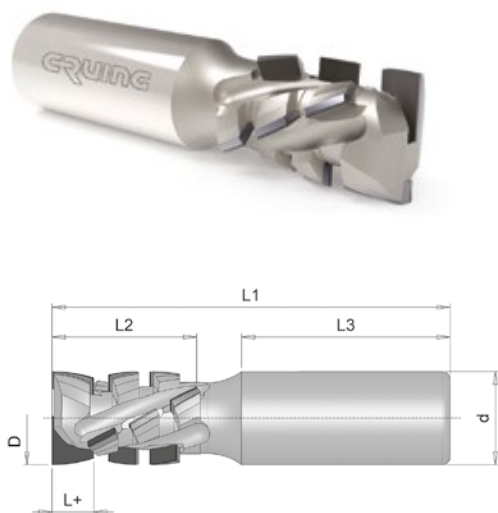
Z2+2 MACH 2 Cylindrical shank

Technical features:

- Feed speed: up to 15 m/min
- Shear angle: 30°
- 2+2 PCD cutting edges
- Design: 4 flute
- Steel body
- DP plunge tip for diagonal plunge-cutting
- High performance
- First tip positive (L+: 11mm) all the others negative
- Resharpenable router (max 8 times)

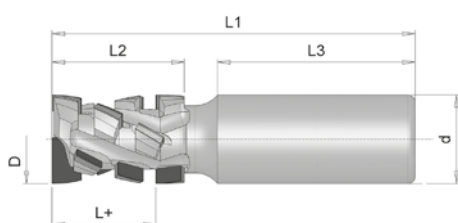
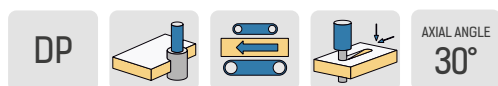
Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods



D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
16	26	16	50	85	2+2	DP230N005S	DP230N005D
16	36	16	50	96	2+2	DP230N015S	DP230N015D
20	26	20	50	85	2+2	DP230N025S	DP230N025D
20	31	20	50	91	2+2	DP230N030S	DP230N030D
20	36	20	50	96	2+2	DP230N035S	DP230N035D
20	43	20	50	101	2+2	DP230N040S	DP230N040D
22	36	20	55	96	2+2	DP230N055S	DP230N055D
22	43	20	55	101	2+2	DP230N060S	DP230N060D
22	47	20	55	107	2+2	DP230N065S	DP230N065D
22	57	20	55	117	2+2	DP230N070S	DP230N070D
25	43	25	55	106	2+2	DP230N075S	DP230N075D
25	47	25	55	112	2+2	DP230N080S	DP230N080D
25	52	25	55	117	2+2	DP230N085S	DP230N085D
25	57	25	55	122	2+2	DP230N090S	DP230N090D
25	63	25	55	128	2+2	DP230N095S	DP230N095D
25	68	25	55	133	2+2	DP230N100S	DP230N100D
25	72	25	55	133	2+2	DP230N105S	DP230N105D

Routing



Z2+2 MACH 2 Cutter Cylindrical shank

Technical features:

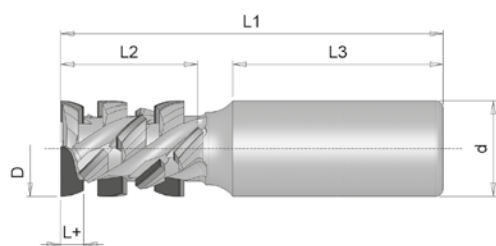
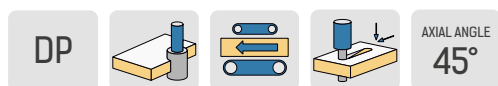
- Feed speed: up to 15 m/min
- Shear angle: 30°
- 2+2 PCD cutting edges
- Design: 4 flute
- DP plunge tip for diagonal plunge-cutting
- High performance
- Tip mainly positive (5mm less L2) for better evacuation of wooden chips
- Steel body
- Resharpenable router (max 8 times)

Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
20	25	20	50	85	2+2	DP230P005S	DP230P005D
20	36	20	50	96	2+2	DP230P015S	DP230P015D
20	41	20	50	101	2+2	DP230P020S	DP230P020D
22	36	20	50	96	2+2	DP230P035S	DP230P035D
22	47	20	50	107	2+2	DP230P040S	DP230P040D
22	52	20	50	112	2+2	DP230P045S	DP230P045D
25	36	25	55	101	2+2	DP230P050S	DP230P050D
25	41	25	55	106	2+2	DP230P055S	DP230P055D
25	47	25	55	112	2+2	DP230P060S	DP230P060D
25	52	25	55	117	2+2	DP230P065S	DP230P065D
25	57	25	55	122	2+2	DP230P070S	DP230P070D
25	63	25	55	128	2+2	DP230P075S	DP230P075D
25	68	25	55	133	2+2	DP230P080	DP230P080D

Routing



Z2+2 MACH 2 Cutter Cylindrical shank

Technical features:

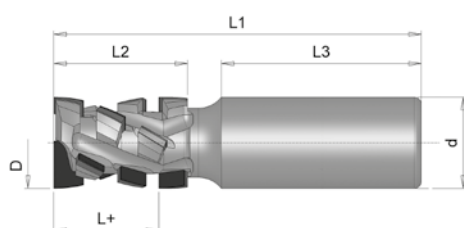
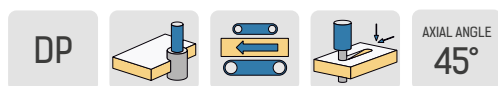
- Feed speed: up to 20 m/min
- Shear angle: 45°
- 2+2 PCD cutting edges
- Design: 4 flute
- DP plunge tip for diagonal plunge-cutting
- First tip positive, (L+: 4,5mm) all the others negative
- High performance
- Steel body
- Resharpenable router (max 8 times)

Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
20	26	20	50	86	2+2	DP245N005S	DP245N005D
20	35	20	50	95	2+2	DP245N010S	DP245N010D
20	44	20	50	104	2+2	DP245N015S	DP245N015D
22	35	20	50	95	2+2	DP245N025S	DP245N025D
22	44	20	50	104	2+2	DP245N030S	DP245N030D
22	53	20	50	113	2+2	DP245N035S	DP245N035D
25	26	25	55	91	2+2	DP245N040S	DP245N040D
25	35	25	55	100	2+2	DP245N045S	DP245N045D
25	44	25	55	109	2+2	DP245N050S	DP245N050D
25	53	25	55	118	2+2	DP245N055S	DP245N055D
25	62	25	55	127	2+2	DP245N060S	DP245N060D
25	71	25	55	136	2+2	DP245N065S	DP245N065D

Routing



Z2+2 MACH 2 Cutter Cylindrical shank

Technical features:

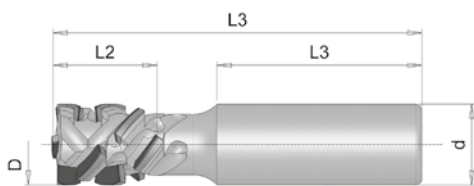
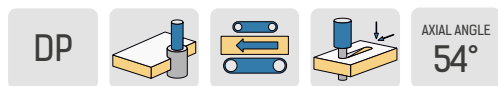
- Feed speed: up to 20 m/min
- Shear angle: 45°
- 2+2 PCD cutting edges
- Design: 4 flute
- DP plunge tip for diagonal plunge-cutting
- High performance
- Tip mainly positive (5mm less L2) for better evacuation of wooden chips
- Steel body
- Resharpenable router (max 8 times)

Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	d	L2	L1	L3	Z	Code (LH)	Code (RH)
20	20	17	77	50	2+2	DP245P005S	DP245P005D
20	20	26	86	50	2+2	DP245P015S	DP245P015D
20	20	35	95	50	2+2	DP245P025S	DP245P025D
22	20	44	104	50	2+2	DP245P035S	DP245P035D
22	20	17	77	50	2+2	DP245P045S	DP245P045D
22	20	26	86	50	2+2	DP245P055S	DP245P055D
22	20	35	95	50	2+2	DP245P065S	DP245P065D
22	20	44	104	50	2+2	DP245P075S	DP245P075D
25	20	53	113	50	2+2	DP245P085S	DP245P085D
25	25	26	91	55	2+2	DP245P100S	DP245P100D
25	25	35	100	55	2+2	DP245P105S	DP245P105D
25	25	44	109	55	2+2	DP245P110S	DP245P110D
25	25	53	118	55	2+2	DP245P115S	DP245P115D
25	25	62	127	55	2+2	DP245P120S	DP245P120D
25	25	71	136	55	2+2	DP245P125S	DP245P125D

Routing



Z2+2 MACH 2 Cutter Cylindrical shank

Technical features:

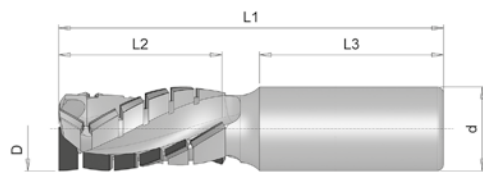
- Feed speed: up to 20 m/min
- Shear angle: 54°
- 2+2 DP cutting edges
- Design 4 flute
- DP plunge tip for diagonal plunge-cutting
- High performance
- Steel body
- First tip positive [L+4mm] all the others negative
- Resharpenable router (max 8 times)

Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
20	25	20	50	90	2+2	DP254N005S	DP254N005D
20	35	20	50	100	2+2	DP254N015S	DP254N015D
20	45	20	50	110	2+2	DP254N025S	DP254N025D
22	25	20	50	90	2+2	DP254N030S	DP254N030D
22	35	20	50	100	2+2	DP254N040S	DP254N040D
22	45	20	50	110	2+2	DP254N050S	DP254N050D
25	25	25	55	95	2+2	DP254N055S	DP254N055D
25	25	35	105	55	2+2	DP254N065S	DP254N065D
25	25	45	115	55	2+2	DP254N075S	DP254N075D
25	25	55	125	55	2+2	DP254N085S	DP254N085D
25	25	65	135	55	2+2	DP254N095S	DP254N095D

Routing



Z3+3 MACH 3 EVO Cutter Cylindrical shank

Technical features:

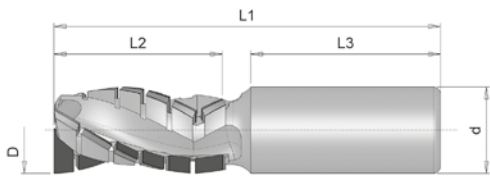
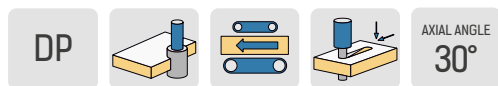
- Feed speed: up to 20 m/min
- Shear angle: 30°
- 3 PCD cutting edges
- Design 3 flute
- DP plunge tip for diagonal plunge-cutting
- First tip positive (7mm) all the others negative
- High performance
- Steel body
- Resharpenable router (max 8 times)

Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
18	28	25	55	95	3	DP330N005S	DP330N005D
20	38	20	50	105	3	DP330N010S	DP330N010D
25	28	25	55	100	3	DP330N015S	DP330N015D
25	38	25	55	105	3	DP330N020S	DP330N020D
25	48	25	55	115	3	DP330N025S	DP330N025D

Routing



Z3+3 MACH 3 EVO Cutter Cylindrical shank

Technical features:

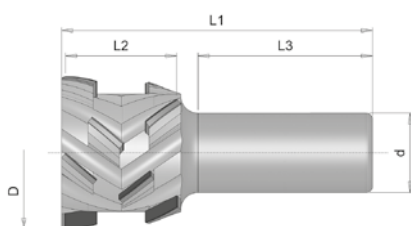
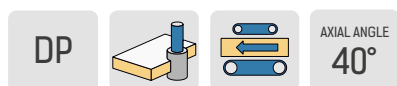
- Feed speed: up to 20 m/min
- Shear angle: 30°
- 3 PCD cutting edges
- Design: 3 flute
- DP plunge tip for diagonal plunge-cutting
- High performance
- Tip mainly positive (6mm less L2) for better evacuation of wooden chips
- Steel body
- Resharpenable router (max 8 times)

Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
25	22	25	55	86	3	DP330P005S	DP330P005D
25	28	25	55	92	3	DP330P010S	DP330P010D
25	38	25	55	102	3	DP330P015S	DP330P015D
25	48	25	55	112	3	DP330P020S	DP330P020D

Routing



Z4+2+4 Trimming Cylindrical shank

Technical features:

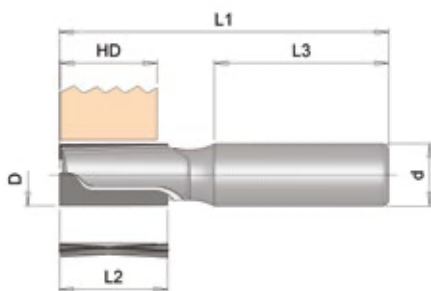
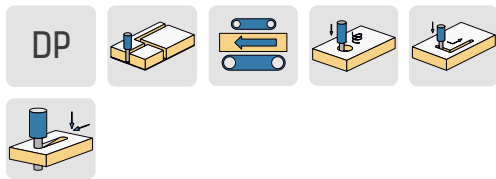
- Feed speed: up to 35 m/min
- Shear angle: 40° (54° available on request)
- 4+2+4 DP cutting edges
- Steel body
- Design 8 flute
- High performance
- Good cutting quality on top and bottom edge thanks to symmetric shear angle
- Resharpenable router (max 8 times)

Applications:

- For CNC routers
- For sizing and dividing:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L2	d	L3	L1	Z	Code (LH)	Code (RH)
48	22	25	55	85	4+2+4	DP440S005S	DP440S005D
48	28	25	55	91	4+2+4	DP440S010S	DP440S010D
48	35	25	55	98	4+2+4	DP440S015S	DP440S015D
48	48	25	55	110	4+2+4	DP440S020S	DP440S020D

Nesting



Z2 Straight-edge Cutter Cylindrical shank

Technical features:

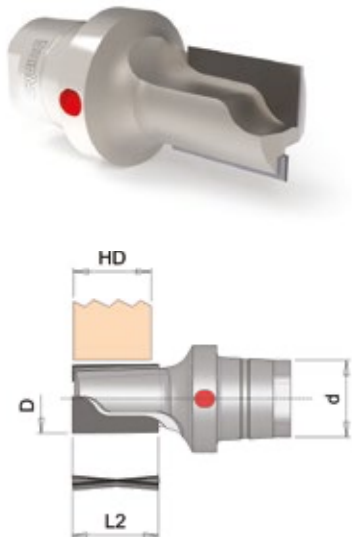
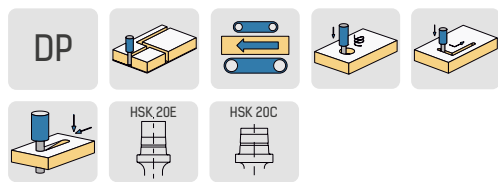
- Feed speed: up to 12 mt/min
- Alternate axial angle
- 2 PCD cutting edges
- Design 2 flute
- Economy and performance
- Steel body
- Resharpenable router (max 3-4 times)

Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	d	L3	L1	Z	Code (RH)
16	15 - 16 - 18	22	16	40	66	2	AES52
16	19 - 20 - 22	24	16	40	70	2	AES54

Nesting



Z2 Straight-edge Cutter Conical shank for Aerotech System

Technical features:

- Feed speed: up to 12 mt/min
- Alternate axial angle
- 2 PCD cutting edges
- Design 2 flute
- Steel body
- 2 conical shank types:
 - HSK20E for Aerotech System E
 - HSK20C for Aerotech System
- High precision and no vibrations
- Resharpenable cutter (max 3-4 times)

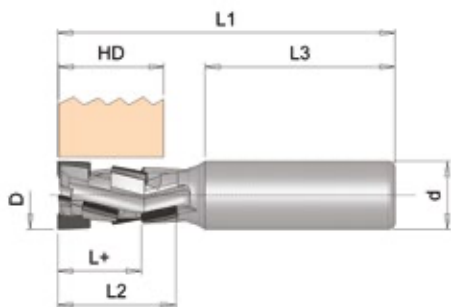
Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	Z	Code (HSK20E)	Code (HSK20C)
16	15 - 16 - 18	22	2	AES416	AES46
16	19 - 20 - 22	24	2	AES41H	AES4H

Nesting

DP



Z2+2 MACH 2 Cutter Cylindrical shank

Technical features:

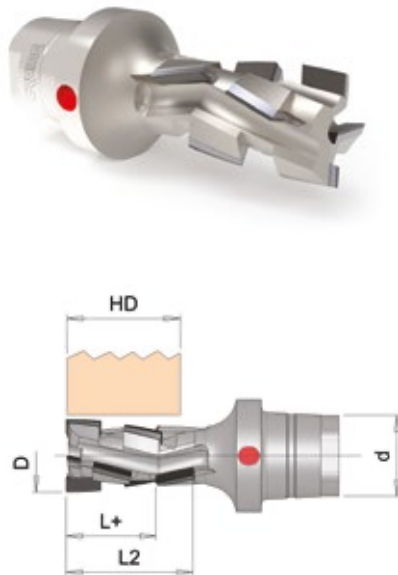
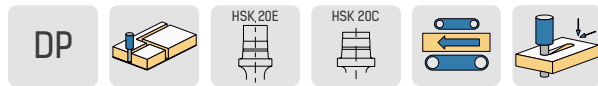
- Feed speed: up to 12 mt/min
- Shear angle: 14° for Ø 12 mm
16° for Ø up to 16 mm
- 2+2 PCD cutting edges
- Design 4 flute
- Tip mainly positive (L+: 7mm less L2) for better evacuation of wooden chips
- Steel body; heavy metal body for Ø 12 mm
- Resharpenable router (max 4 times)

Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	d	L3	L1	Z	Code (RH)	Helical direction
12	15 - 16 - 18	20,5	12	40	66	2+2	AES01	positive
16	15 - 16 - 18	20,5	16	40	66	2+2	AES02	positive
16	15 - 16 - 18	20,5	25	55	81	2+2	AES0011	positive
12	19 - 20 - 22	24,5	12	40	70	2+2	AES03	positive
16	19 - 20 - 22	24,5	16	40	70	2+2	AES04	positive
16	19 - 20 - 22	24,5	25	55	85	2+2	AES0012	positive
12	25	27,5	12	40	75	2+2	AES0C	positive
16	25	27,5	16	40	75	2+2	AES0B	positive
16	25	27,5	25	55	90	2+2	AES0013	positive

Nesting



Z2+2 MACH 2 Cutter Conical shank for Aerotech System

Technical features:

- Feed speed: up to 12 m/min
- Shear angle: 14° for Ø 12 mm
- 16° for Ø up to 16 mm
- 2+2 PCD cutting edges
- Tip mainly positive (L+: 6mm less L2) for better evacuation of wooden chips
- Design 4 flute
- Steel body; heavy metal body for Ø 12mm
- 2 conical shank types:
 - HSK20E for Aerotech System E
 - HSK20C for Aerotech System
- High precision and no vibrations
- Resharpenable cutter (max 4 times)

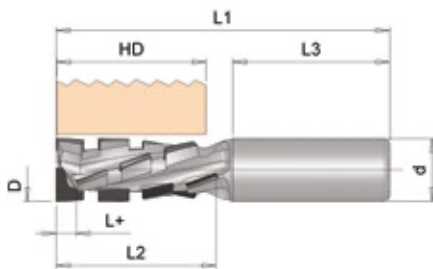
Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	Z	Helical direction	Code (HSK20E)	Code (HSK20C)
12	15 - 16	18,5	2+2	positive	AES1021D	
12	18	20,5	2+2	positive	AES1022D	
12	19 - 20	22,5	2+2	positive	AES1023D	
12	22	24,5	2+2	positive	AES1024D	
12	25	27,5	2+2	positive	AES1025D	
16	15 - 16	18,5	2+2	positive	AES1011D	AES14
16	18	20,5	2+2	positive	AES1012D	AES16
16	19 - 20	22,5	2+2	positive	AES1013D	AES1F
16	22	24,5	2+2	positive	AES1014D	AES1H
16	25	27,5	2+2	positive	AES1015D	AES1L

Nesting

DP



Z2+2 MACH 2.3 Cylindrical shank

Technical features:

- Feed speed: up to 12 mt/min
- Helical direction negative
- Design 4 flute
- shear angle: 10° for Ø 12 mm;
20° for Ø 14 mm
- First tip positive (5 mm) all the others negative
- Heavy metal body)
- Resharpenable cutter (max 4 times)

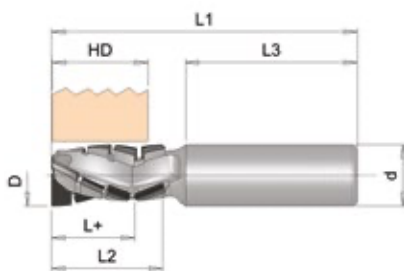
Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	d	L3	L1	Z	Helical direction	Code (RH)
12	15 - 18	22	12	40	75	2+2	negative	AEH205D
12	19 - 25	28	12	40	85	2+2	negative	AEH210D
14	15-18	22	16	40	75	2+2	negative	AEH215D
14	19-25	28	16	40	85	2+2	negative	AEH220D
14	25-32	35	16	40	95	2+2	negative	AEH225D

Nesting

DP



Z3 MACH 3 EVO Cutter Cylindrical shank

Technical features:

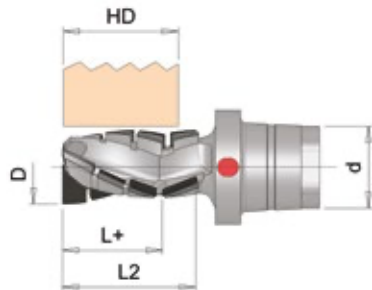
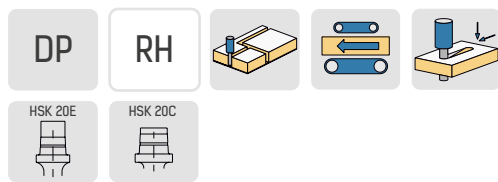
- Feed speed: up to 25 m/min
- Shear angle: 18° for Ø 12 mm
25° for Ø up to 16 mm
- 3 PCD cutting edges
- Design 3 flute
- Tip mainly positive (L+: 5mm less L2) for better evacuation of wooden chips
- Heavy metal body for Ø 12mm;
steel body for Ø 16mm
- Resharpenable cutter (max 4 times)

Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	d	L3	L1	Z	Code (RH)	Helical direction
12	15 - 16	18,5	16	45	70	3	AEH401D	positive
12	18 - 19 - 20	22,5	16	45	73	3	AEH402D	positive
12	22	24,5	16	45	75	3	AEH403D	positive
12	25	27,5	16	45	80	3	AEH404D	positive
16	15 - 16	18,5	16	45	70	3	AEH301D	positive
16	18 - 19 - 20	22,5	16	45	73	3	AEH302D	positive
16	22	24,5	16	45	75	3	AEH303D	positive
16	25	27,5	16	45	80	3	AEH304D	positive

Nesting



Z3 MACH 3 EVO cutter Conical Shank for aerotech system

Technical features:

- Feed speed: up to 25 mt/min
- shear angle: 18° for Ø 12 mm;
25° for Ø 16 mm
- 3 PCD cutting edges
- Design 3 flute
- Heavy metal body for Ø 12mm; steel body
for Ø 16mm
- Tip mainly positive (L+: 5mm less L2) for better evacuation
for wooden chips
- 2 conical shank types:
 - HSK20E for Aerotech System E
 - HSK20C for Aerotech System
- High precision and no vibrations
- Resharpenable cutter (max 4 times)

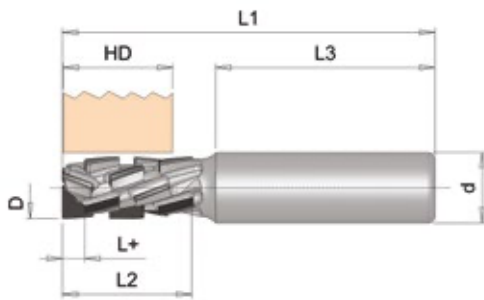
Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	Z	Helical direction	Code (HSK20E)	Code (HSK20C)
12	15 - 16	18,5	3	positive	AES2121D	
12	18	20,5	3	positive	AES2122D	
12	19 - 20	22,5	3	positive	AES2123D	
12	22	24,5	3	positive	AES2124D	
12	25	27,5	3	positive	AES2125D	
16	15 - 16	18,5	3	positive	AES2111D	AES2101D
16	18	20,5	3	positive	AES2112D	AES2102D
16	19 - 20	22,5	3	positive	AES2113D	AES2103D
16	22	24,5	3	positive	AES2114D	AES2104D
16	25	27,5	3	positive	AES2115D	AES2105D

Nesting

DP



Z3 MACH 3.3 Cutter Cylindrical Shank

Technical features:

- Feed speed: up to 25 m/min
- Shear angle: 10° for Ø 12 mm
20° for Ø up to 14 mm
- 3+3 PCD cutting edges
- Design 6 flute
- First tip positive (L+: 5mm) all the others negative
- Heavy metal body
- Resharpenable cutter (max 4 times)

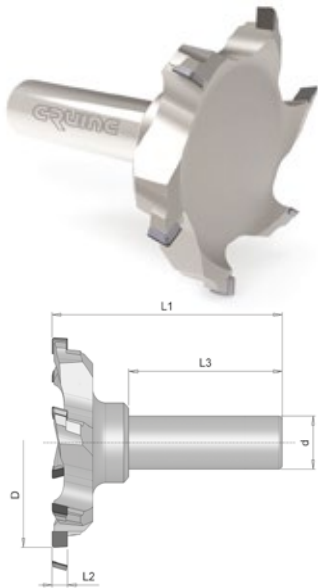
Applications:

- For CNC routers
- For nesting:
 - Particleboards
 - Laminates
 - HPL and veneered panels
 - Plyboards

D	HD	L2	d	L3	L1	Z	Helical direction	Code (RH)
12	15 - 18	22	12	40	75	3+3	negative	AEH605D
12	19 - 25	28	12	40	85	3+3	negative	AEH610D
14	15 - 18	22	16	40	75	3+3	negative	AEH615D
14	19 - 25	28	16	40	85	3+3	negative	AEH620D
14	25 - 32	35	16	40	95	3+3	negative	AEH625D

Nesting

DP



Z6 – Z8 planning and rabbeting cutter Cylindrical shank

Technical features:

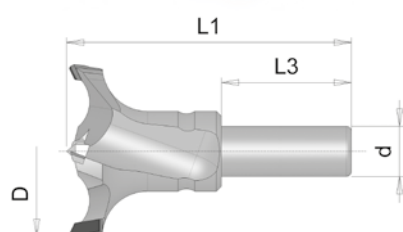
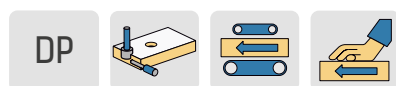
- Thread for length adjusting screw
- 6 – 8 DP cutting edges
- Steel body
- Positive shear
- Resharpenable cutter (max 6 times)

Applications:

- For CNC routers
- For planning, rabbeting and panel raising in wood-based panels

D	L2	d	L3	L1	Z	Code (RH)
80	5,6	20	50	90	6	AES81
80	5,6	25	55	90	6	AES82
100	5,6	20	50	90	8	AES83
100	5,6	25	55	90	8	AES84

Hinge bits



DCG704 (Z2 - V2)

Technical features:

- 2 PCD precision rakers
- 2 PCD negative spurs
- HW head with precision balanced centering point
- Parallel shank with driving flat and length adjusting screw
- Super strength steel body
- Total length: 70,0 mm

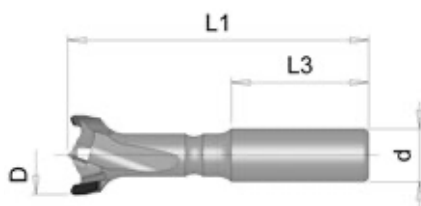
Applications:

- For CNC centers, hardware hinge and automatic boring machines
- For drilling of hinge hardware holes in:
 - Particleboards
 - MDF boards
 - Laminates
 - HPL and veneered panel
 - Solid hard woods

D	L1	d	L3	Z	V	n. max	Code (LH)	Code (RH)
15	70	10	26	2	2	28.000	DCG7041S	DCG7041D
16	70	10	26	2	2	27.000	DCG7042S	DCG7042D
18	70	10	26	2	2	25.000	DCG7043S	DCG7043D
20	70	10	26	2	2	24.000	DCG7044S	DCG7044D
22	70	10	26	2	2	23.000	DCG7045S	DCG7045D
25	70	10	26	2	2	21.500	DCG7047S	DCG7047D
26	70	10	26	2	2	21.000	DCG7048S	DCG7048D
30	70	10	26	2	2	19.500	DCG704AS	DCG704AD
35	70	10	26	2	2	18.500	DCG704CS	DCG704CD
40	70	10	26	2	2	17.000	DCG704ES	DCG704ED

Hinge bits

DP



DCG574 (Z2 – V2)

Technical features:

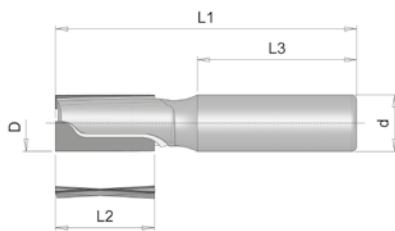
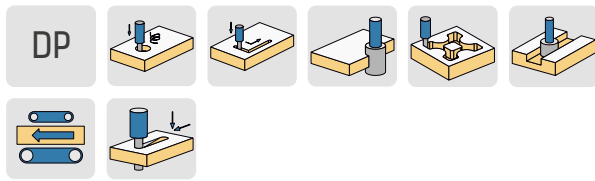
- 2 PCD precision rakers
- 2 PCD negative spurs
- HW head with precision balanced centering point
- Parallel shank with driving flat and length adjusting screw
- Super strenght steel body
- Total length: 57,5 mm

Applications:

- For CNC centers, hardware hinge and automatic boring machines
- For drilling of hinge hardware holes in:
 - Particleboard
 - MDF boards
 - Laminates
 - HPL and veneered panels
 - Solid hard woods

D	L1	d	L3	Z	V	n. max	Code (LH)	Code (RH)
15	57,5	10	26	2	2	28.000	DCG5741S	DCG5741D
16	57,5	10	26	2	2	27.000	DCG5742S	DCG5742D
18	57,5	10	26	2	2	25.000	DCG5743S	DCG5743D
20	57,5	10	26	2	2	24.000	DCG5744S	DCG5744D
22	57,5	10	26	2	2	23.000	DCG5745S	DCG5745D
25	57,5	10	26	2	2	21.500	DCG5747S	DCG5747D
26	57,5	10	26	2	2	21.000	DCG5748S	DCG5748D
30	57,5	10	26	2	2	19.500	DCG574AS	DCG574AD
35	57,5	10	26	2	2	18.500	DCG574CS	DCG574CD
40	57,5	10	26	2	2	17.000	DCG574ES	DCG574ED

Other Materials



Z2+1 Routing Cutter For solid core panels

Technical features:

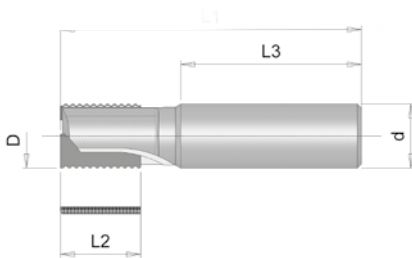
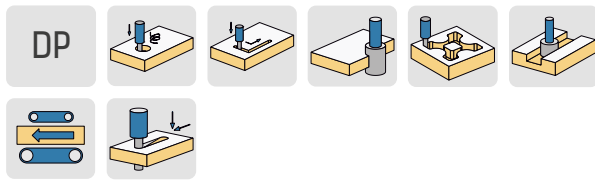
- Alternate shear angle
- 2+1 PCD cutting edges
- High density structure PCD
- Polished face
- Heavy metal body
- Resharpenable cutter (max 4 times)

Applications:

- For CNC routers
- For jointing and sizing without overlap marks in:
 - Solid woods
 - Wood-based panels
 - Plastic
- Especially suited for machining of:
 - Plastic solid core panels
 - Trespa
 - Corian
 - Varicor

D	L2	d	L3	L1	Z	Code (RH)
12	15	16	45	75	2+1	DPSC005D
12	22	16	45	75	2+1	DPSC010D
14	28	16	45	80	2+1	DPSC015D
16	20	20	50	80	2+1	DPSC020D

Other Materials



Z2+1 Roughing Cutter For solid core panels

Technical features:

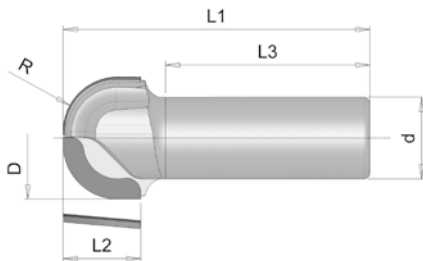
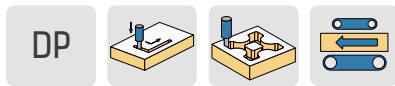
- Neutral shear angle
- 2+1 PCD cutting edges
- High density structure PCD
- Heavy metal body
- Resharpenable cutter (max 4 times)

Applications:

- For CNC routers
- for pre-sizing in roughing quality in:
 - Solid woods
 - Wood-based panels
 - Plastic
- Especially suited for machining of:
 - Plastic solid core panels
 - Tresp
 - Corian
 - Varicor

D	L2	d	L3	L1	Z	Code (RH)
16	20	16	45	75	2+1	DP SC11D

Other Materials



Z2 Ball-Nose Cutter For 3D milling

Technical features:

- Positive shear angle
- 2 PCD cutting edges
- High density structure PCD
- Steel body
- Resharpenable cutter (max 4 times)

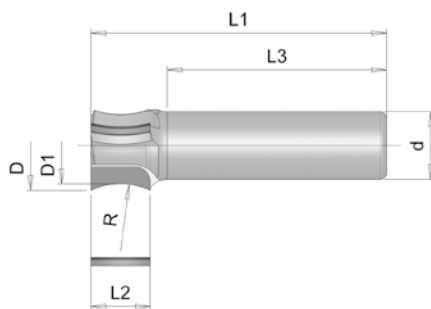
Applications:

- For CNC routers
- For contour milling and template copying
- For 3D milling work, 3D models, relief-milling work

R	D	L2	d	L3	L1	Z	Code (RH)
10	20	14	20	50	80	2	DPBN05D
15	30	19	20	50	80	2	DPBN10D
20	40	24	20	50	80	2	DPBN15D

Other Materials

DP



Z3 Radius Cutter For solid core panels

Technical features:

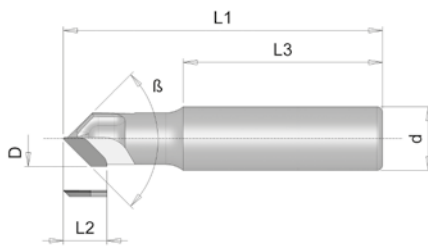
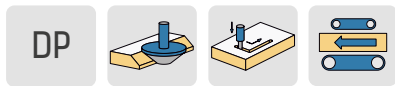
- Neutral shear angle
- 3 PCD cutting edges
- High density structure PCD
- Without plunge tip
- Polished face
- Heavy metal body
- Resharpenable cutter (max 4 times)

Applications:

- For CNC routers
- For slight rounding of:
 - Solid woods
 - Wood-based panels
 - Plastic
- Especially suited for machining of:
 - Plastic solid core panels
 - Trespa
 - Corian
 - Varicor

R	D	D1	L2	d	L3	L1	Z	Code (RH)
16	21,3	18	14	16	45	65	3	DPSC305D

Other Materials



Groove Cutter 60°-90°

Technical features:

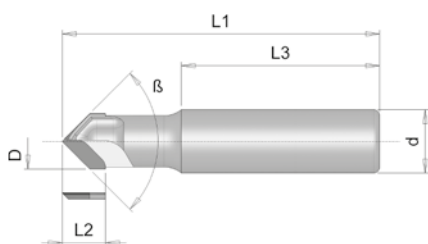
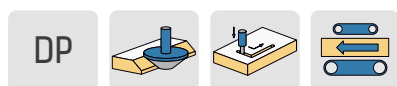
- Neutral shear angle
- 1 PCD cutting edges
- Steel body
- Resharpenable cutter (max 4 times)

Applications:

- For CNC machines
- For grooving operations in relief-picture techniques

β	D	L2	d	L3	L1	Z	Code (RH)
60°	14	7	16	45	75	1	DPV105D
90°	14	7	16	45	75	1	DPV110D

Other Materials



Groove Cutter 60°-90°

Technical features:

- Neutral shear angle
- 2 PCD cutting edges
- Steel body
- Resharpenable cutter (max 4 times)

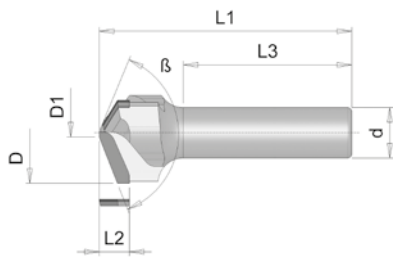
Applications:

- For CNC machines
- For grooving operations in relief-picture techniques

β	D	L2	d	L3	L1	Z	Code (RH)
60°	14	7	16	45	75	2	DPV205D
90°	14	7	16	45	75	2	DPV210D

Other Materials

DP



V-Groove Cutter 90°-135°

Technical features:

- Neutral shear angle
- 3 PCD cutting edges
- Polished face
- Steel body
- Resharpenable cutter (max 4 times)
- 90° V-Groove to 90° fold; 135° V-Groove to 45° fold

Applications:

- For CNC machines
- For V-grooves in aluminium composite materials (Aluco-bond, Dibond, etc.)

β	D	L2	d	L3	L1	Z	Code (RH)
90°	18	7,5	12	40	60	3	DPV305D
135°	32	6,2	12	40	60	3	DPV310D

NOTE

**Germany**

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