

Frezy VHM do obróbki profili PCV i ALU

Frezy katalogowe i na zamówienie



Producent frezów VHM

N-POL®
cutting tools

N-POL[®] cutting tools

N-POL cutting tools[®], jesteśmy polskim producentem narzędzi z 25-letnim doświadczeniem nie tylko na polskim rynku. Nasze wyroby trafiają do ponad 50 krajów na całym świecie.

Najwyższej jakości narzędzia z węgliku spiekanego produkowane w technologii najnowszych, wielosiowych szlifierek numerycznych z wykorzystaniem robotów.

Laserowa kontrola jakości wymiaru gwarantuje powtarzalność wymiaru w całej serii z dokładnością do 0,005 mm (5 mikronów).

Do produkcji frezów używamy specjalnego węgliku spiekanego o najwyższej elastyczności. Zastosowanie takiego gatunku gwarantuje wysoką elastyczność dzięki czemu narzędzia są mniej narażone na złamanie przy małych średnicach i długich częściach roboczych narzędzia.

Wszystkie narzędzia produkowane są tylko z certyfikowanych europejskich gatunków węgliku spiekanego co gwarantuje najwyższą jakość dostarczanych narzędzi.



N-POL[®] cutting tools

N-POL cutting tools[®], we are a Polish tool manufacturer with 25 years of experience not only on the Polish market. Our products go to over 50 countries around the world.

The highest quality tungsten carbide tools manufactured using the latest technology of multi-axis numerical grinders using robots.

Laser dimensional quality control guarantees dimensional repeatability in the whole series with an accuracy of 0,005 mm (5 microns).

For the production of cutters we use a special tungsten carbide with the highest flexibility. The use of such a grade guarantees high flexibility thanks to which the tools are less exposed to fracture with small diameters and long working parts of the tool.

All tools are manufactured only from certified European grades of tungsten carbide which guarantees the highest quality of supplied tools.



AL101

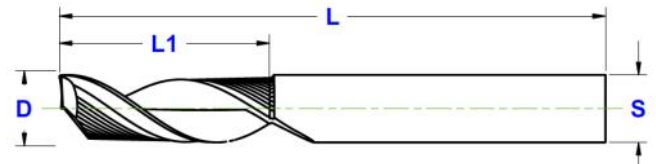
Frez VHM 1-ostrzowy Solid carbide spiral router 1-flutes

AL101 - frez walcowo-czołowy, Z=1, do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC jak np.: Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma i wielu innych

AL101 - Solid carbide end mills, Z=1 for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.



D	L1	L	s	Z	ART. Nr
2	10	50	6	1	AL101.020.010.050.6
3	12	50	6	1	AL101.030.012.050.6
3	12	60	8	1	AL101.030.012.060.8
3,2	12	70	6	1	AL101.032.012.070.6
4	12	70	4	1	AL101.040.012.070.4
4	14	60	6	1	AL101.040.014.060.6
4	8	70	6	1	AL101.040.008.070.6
4	12	70	6	1	AL101.040.012.070.6
4	20	60	8	1	AL101.040.020.060.8
5	20	60	5	1	AL101.050.020.060.5
5	12	70	5	1	AL101.050.012.070.5
5	30	70	5	1	AL101.050.030.070.5
5	40	80	5	1	AL101.050.010.080.5
5	45	80	5	1	AL101.050.045.080.5
5	16	60	6	1	AL101.050.016.060.6
5	40	80	6	1	AL101.050.040.080.6
5	20	60	8	1	AL101.050.020.060.8
5	15	70	8	1	AL101.050.015.070.8
5	30	70	8	1	AL101.050.030.070.8
5	20	80	8	1	AL101.050.020.080.8
5	30	80	8	1	AL101.050.030.080.8
5	40	80	8	1	AL101.050.040.080.8
5	20	90	8	1	AL101.050.020.090.8
5	30	90	8	1	AL101.050.030.090.8
5	12	100	8	1	AL101.050.012.100.8
5	20	100	8	1	AL101.050.020.100.8
5	40	100	8	1	AL101.050.040.100.8
6	16	60	6	1	AL101.060.016.060.6
6	20	60	6	1	AL101.060.020.060.6
6	12	70	6	1	AL101.060.012.070.6
6	30	80	6	1	AL101.060.030.080.6
6	40	80	6	1	AL101.060.016.060.6
6	12	100	6	1	AL101.060.012.100.6
6	30	110	6	1	AL101.060.030.110.6
7	18	60	8	1	AL101.070.018.060.8
8	18	60	8	1	AL101.080.018.060.8
8	12	70	8	1	AL101.080.012.070.8
8	25	75	8	1	AL101.080.025.075.8
8	35	90	8	1	AL101.080.035.090.8
8	16	100	8	1	AL101.080.016.100.8

AL101

10	22	70	10	1	AL101.100.022.070.10
10	28	75	10	1	AL101.100.028.075.10
10	40	97	10	1	AL101.100.040.097.10
10	30	100	10	1	AL101.100.030.100.10
12	35	83	10	1	AL101.120.035.083.10
12	45	83	10	1	AL101.120.045.083.10
12	32	80	12	1	AL101.120.032.080.12
12	42	80	12	1	AL101.120.042.080.12
12	35	100	12	1	AL101.120.035.100.12

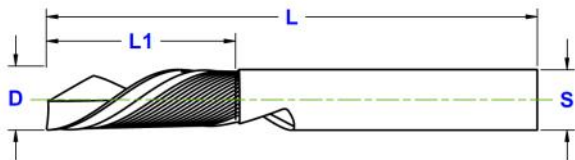
Frez VHM 1- ostrzowy negatyw

Solid carbide spiral router 1-flutes down cut

AL101N

AL101N - frez walcowo-czołowy, Z=1 spirala negatywna, do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC: Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma i wielu innych



AL101N - Solid carbide end mills, Z=1 negative helix, down cut for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines; Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.

D	L1	L	s	Z	ART. Nr
3	10	45	3	1	AL101N.030.010.045.3
4	14	60	4	1	AL101N.040.014.060.4
5	20	60	5	1	AL101N.050.020.060.5
5	25	60	5	1	AL101N.050.025.060.5
5	40	80	5	1	AL101N.060.040.080.5
5	50	80	5	1	AL101N.060.050.080.5
5	70	100	5	1	AL101N.050.070.100.5
6	20	60	6	1	AL101N.060.020.060.6
8	20	60	8	1	AL101N.080.020.060.8
8	40	80	8	1	AL101N.080.040.080.8
10	30	75	10	1	AL101N.100.030.075.10
12	30	75	12	1	AL101N.120.030.075.12

AL102

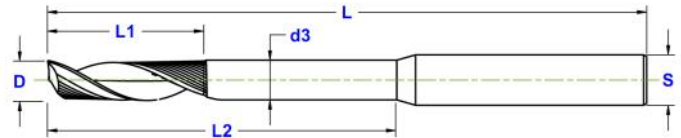
Frez VHM 1-ostrzowy z przewężeniem Solid carbide spiral router 1-flutes with reduced body

AL102 - frez walcowo-czołowy, Z=1 z przewężeniem korpusu, do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC jak np.: Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma i wielu innych

AL102 - Solid carbide end mills, Z=1 with reduced body for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines; Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.



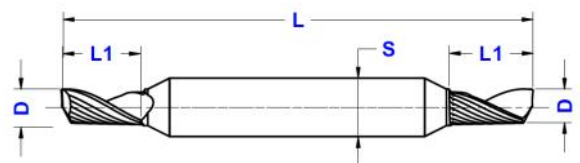
D	L1	L2	L	s	Z	ART. Nr
3,2	12	40	70	4	1	AL102.032.12-40.070
4	15	35	80	8	1	AL102.040.15-35.070
5	8	40	77	6	1	AL102.050.08-40.077
5	15	35	80	8	1	AL102.050.15-35.080
5	20	45	90	8	1	AL102.050.20-45.090
5	35	55	90	8	1	AL102.050.35-55.080
5	30	50	100	8	1	AL102.050.30-50.100
5	40	50	100	8	1	AL102.050.40-50.100
5	35	55	100	8	1	AL102.050.35-55.100
5	30	60	100	8	1	AL102.050.30-60.100
6	10	40	77	6	1	AL102.060.10-40.077
6	20	35	80	8	1	AL102.060.20-35.080
6	20	30	90	8	1	AL102.060.20-30.090
6	35	72	110	8	1	AL102.060.35-72.110
7	18	45	70	8	1	AL102.070.18-45.070
8	16	40	70	8	1	AL102.080.16-40.070
8	10	40	80	8	1	AL102.080.10-40.080
8	16	70	100	8	1	AL102.080.16-70.100
10	15	65	110	10	1	AL102.100.15-65.110
10	20	70	100	10	1	AL102.100.20-70.100
12	20	70	100	12	1	AL102.120.20-70.100
16	30	50	100	16	1	AL102.160.30-50.100

ALM101

Frez VHM 1-ostrzowy dwustronny Solid carbide spiral router 1-flutes double-sided

ALM101 - frez walcowo-czołowy, Z=1 dwustronne ostrze. Specjalne wykonanie do obróbki profili stalowych. Do zastosowania we wszystkich typach kopiarko-frezarek:

ALM101 - Solid carbide end mills, Z=1 Double-sided cutting. Special design for machining steel profiles. For use in all types of copier-milling machines:



D	L1	L2	L	s	Z	ART. Nr
5	11		65	8	1	ALM101.050.011.080

Frez VHM 1-ostrzowy ze szpicem 90° Solid carbide spiral router 1-flutes with V-point 90°

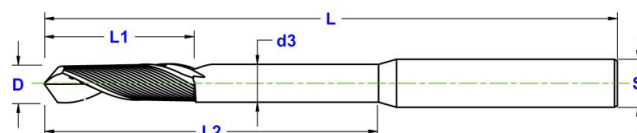
ALV102

ALV102 - Frez jednoostrzowy ze szpicem wiercącym 90°, do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC jak np.. Elumatec, Haffner, Handtmann, HEFI, Rapid, Schirmer, Stürtz, itdi wielu innych

ALV102 - Solid carbide end mills, Z=1 with drilling V-point 90° for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines; Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.



D	L1	L2	L	s	Z	ART. Nr
5	40		80	5	1	ALV102.050.040.080.5
5	20		60	8	1	ALV102.050.020.060.8
5	30		80	8	1	ALV102.050.030.080.8
5	40		80	8	1	ALV102.050.040.080.8
5	35	55	90	8	1	ALV102.050.35-55.090.8
5	35	55	100	8	1	ALV102.050.35-55.100.8
6	40		80	6	1	ALV102.060.040.080.8
6	35	72	110	8	1	ALV102.06.35-72.1100.8

Frez VHM 1-ostrzowy do odwodnień Waterslot spiral router 1-flutes with reduced body

AL113A/B

AL113 - do odwodnień, Z=1, do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

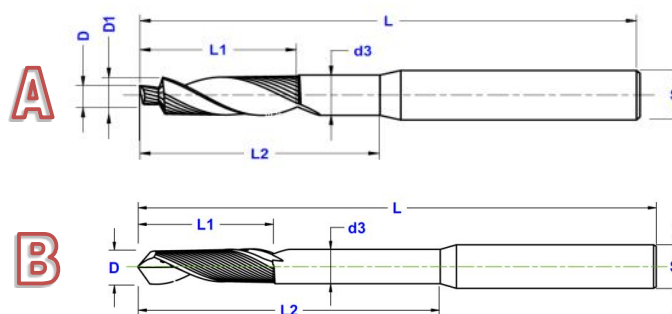
A - dwustopniowe ostrze; B - ostrze ze czołem wiercącym 90°

Zastosowanie do maszyn CNC jak np.. Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma i wielu innych

AL113 - Waterslot router, Z=1 with for machining aluminium and PVC profiles, polished chip flutes and blade

A - stepped router; B - V-point router 90°

Application to CNC machines; Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.



D1/D	L1	L2	L3	L	s	Z	typ	rotation	ART. Nr
2,7/5	25			80	8	1	A	RH/P	AL113A.050.025.080.P
2,7/5	30	50	50	100	8	1	A	RH/P	AL113A.050.30-50.100.P
5	25			80	8	1	B	RH/P	AL113B.050.025.080.P
5	35	45		90	8	1	B	RH/P	AL113B.055.35-45.090.P
5	30	50	20	100	8	1	B	RH/P	AL113B.050.30-50.100.P
2,7/5	25		30	80	8	1	A	RH/N	AL113A.050.025.080.N
2,7/5	30	50	30	100	8	1	A	RH/N	AL113A.050.30-50.100.N
5	25		40	80	8	1	B	RH/N	AL113B.050.025.080.N
5	35		40	80	8	1	B	RH/N	AL113B.050.035.080.N
5	30	50	57	100	8	1	B	RH/N	AL113B.050.30-50.100.N

ALV211

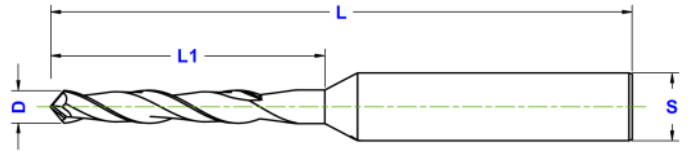
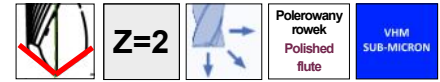
ALV211 - , Dwuostrzowe ze szpicem 90° , do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC jak np.. Elumatec, Haffner, Handtmann, HEFI, Rapid, Schirmer, Stürtz, i wielu innych.

ALV211 - Solid carbide end mills, Z=2 with V-point 90° for machining aluminium and PVC profiles, polished chip flutes and blade.

Application to CNC machines; Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.

Frez VHM 2-ostrzowy ze szpicem 90° Solid carbide spiral router 2-flutes with V-point 90°



D	L1	L	s	Z	ART. Nr
5	40	80	5	2	ALV211.050.040.080.5
5	40	100	5	2	ALV211.050.040.100.5
3	10	60	8	2	ALV211.030.010.060.8
5	20	60	8	2	ALV211.050.020.060.8
5	30	70	8	2	ALV211.050.030.070.8
5	40	80	8	2	ALV211.050.040.080.8
5	20	85	8	2	ALV211.050.020.085.8
5	30	90	8	2	ALV211.050.030.090.8
5	40	100	8	2	ALV211.050.040.100.8
5	45	100	8	2	ALV211.050.044.100.8
6	40	75	8	2	ALV211.060.040.075.8
6	30	90	8	2	ALV211.060.030.090.8
6	40	95	8	2	ALV211.060.040.095.8
6	45	90	8	2	ALV211.060.045.095.8
8	65	100	8	2	ALV211.080.065.100.8

ALW200

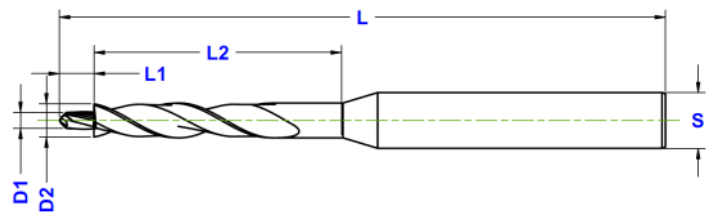
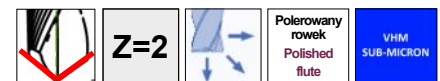
ALW200 - frez walcowo-czołowy, Z=2 z dwustopniowym ostrzem do wiercenia do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC jak np.. Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma i wielu innych.

ALW200 - Solid carbide end mills, Z=2 with stepped top for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines; Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.

Frez VHM 2-ostrzowy z nawiercaniem Solid carbide spiral router 2-flutes stepped top



D1	L1	D2	L2	s	s	Z	ART. Nr
2,0	4,5	5	20	60	8	2	ALW200.020.020.060.01
2,5	4,5	5	20	60	8	2	ALW200.025.020.060.02
2,5	4,5	5	30	70	8	2	ALW200.025.030.070.03
3	4,5	5	20	60	8	2	ALW200.030.020.060.04
3	4,5	5	30	70	8	2	ALW200.030.030.070.05
3	5,5	5	30	70	8	2	ALW200.030.030.070.06
3	4,5	5	40	80	8	2	ALW200.030.040.080.07
4	10	5	40	80	8	2	ALW200.040.040.080.08
4	20	8	57	100	8	2	ALW200.040.057.100.09

Frez VHM 3-ostrzowy ze szpicem 90° Solid carbide spiral router 3-flutes with V-point 90°

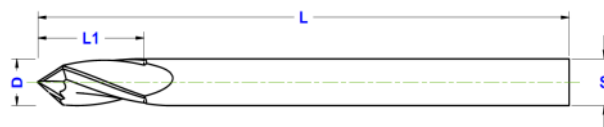
ALV335

ALV335 - frez walcowo-czołowy, Z=3 ze szpicem wiercącym 90° do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC jak np.. Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma i wielu innych.

ALV335 - Solid carbide end mills, Z=3 with V-point 90° for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines; Emmegi, Elumatec, Haffner, HEFI, MLA, Rapid, Rotox, Schirmer, Schüco, Striffler, TEKNA, Wegoma and more.



D	L1	D2	s	Z	ART. Nr
6,0	20,0	100	8	3	ALV335.060.020.100.8
8,0	20,0	100	8	3	ALV335.080.020.100.8

Frez VHM 2-ostrzowy Solid carbide spiral router 2-flutes

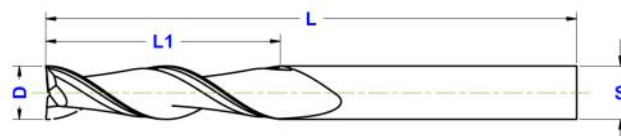
ALP235

ALP235 - , Dwuostrzowe frezy VHM do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC

ALP235- Solid carbide end mills, Z=2 for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines



D	L1	L2	L	s	Z	ART. Nr
2,5	8		58	6	2	ALP235.025.008.058.6
5	30		70	5	2	ALP235.050.030.070.5
6	20	60	120	8	2	ALP235.060.20-60.100.5
6	40		100	6	2	ALP235.060.040.100.6
8	18		60	8	2	ALP235.080.018.060.8
8	35		80	8	2	ALP235.080.035.080.8
8	40		100	8	2	ALP235.080.040.100.8
8	70		150	8	2	ALP235.080.070.150.10
8	35	42	100	10	2	ALP235.080.35-42.100.10
10	22		70	10	2	ALP235.100.022.070.10
10	22		72	10	2	ALP235.100.022.072.10
10	12	60	90	10	2	ALP235.100.12-60.090.10
10	40		100	10	2	ALP235.100.040.100.10
10	12	80	110	10	2	ALP235.100.12-80.110.10
10	70		150	10	2	ALP235.100.070.150.10
12	22		70	12	2	ALP235.120.022.070.12
12	12	60	100	12	2	ALP235.120.12-60.100.12
12	45		100	12	2	ALP235.120.045.100.12
12	40		120	12	2	ALP235.120.040.120.12
14	45		100	14	2	ALP235.140.045.100.14
16	22		70	16	2	ALP235.160.022.070.16
16	45		100	16	2	ALP235.160.045.100.16
16	32	60	102	16	3	ALP235.160.32-60.102.16
16	35	70	110	16	3	ALP235.160.35-70.110.16
16	20	60	115	16	2	ALP235.160.20-60.115.16
16	70		150	16	2	ALP235.160.070.150.16

AL235W

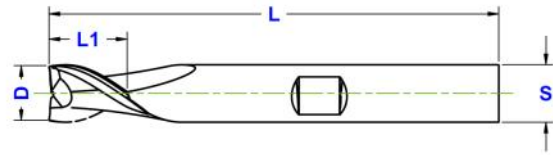
Frez VHM 2-ostrzowy Solid carbide spiral router 2-flutes

AL235W - , Dwuostrzowe frezy VHM Z=2, do obróbki profili aluminium i PCV, Polerowane rowki wiórowe i ostrze.

Zastosowanie do maszyn CNC

AL235W - Solid carbide end mills, Z=2 for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines



D	L1	L	s	Z	ART. Nr
4	10	57	6	2	M235W.040.010.057
5	10	57	6	2	M235W.050.010.057
6	10	57	6	2	M235W.060.010.057
8	16	63	8	2	M235W.080.016.063
10	19	72	10	2	M235W.100.019.072

ALT305

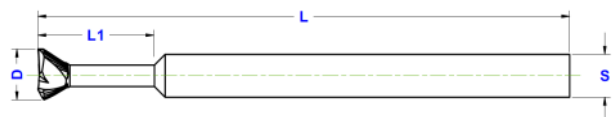
Frez VHM 3-ostrzowy do czyszczenia naroży Solid carbide router 3-flutes T-slot for inside corner cleaning

ALT305 - Frezy VHM Z=3, do czyszczenia wewnętrznych naroży w profilach PCV

Zastosowanie do maszyn CNC typu; Urban, Stürtz, Rotox, Elumatec

ALT305 - Solid carbide router, Z=3 T-slots for inside corner cleaning, for machining aluminium and PVC profiles, polished chip flutes and blade

Application to CNC machines; Urban, Stürtz, Rotox, Elumatec



D	L1	L	s	Z	ART. Nr
8	20	100	8	3	ALT305.080.020.100
8	30	100	8	3	ALT305.080.030.100
9	50	100	8	3	ALT305.090.050.100
10	25	100	8	3	ALT305.100.025.100
12	45	100	8	3	ALT305.120.045.100
12	50	100	8	3	ALT305.120.050.100
14	45	100	8	3	ALT305.140.045.100

ALC242

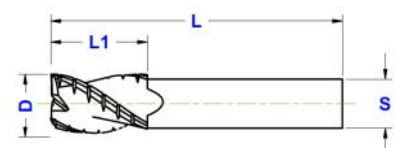
Frez VHM 3-ostrzowy do profili Solid carbide router 3-flutes PVC profile

ALC242 - Frezy VHM Z=3, do frezowania w profilach PCV

Zastosowanie do maszyn CNC

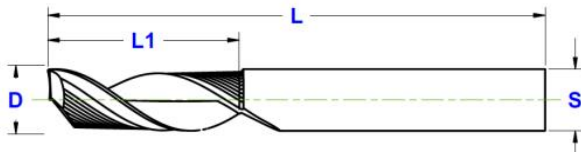
ALC242- Solid carbide router, Z=3 for machining PVC profiles,

Application to CNC machines;

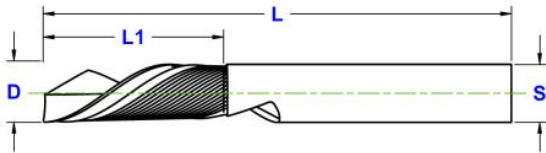


D	L1	L	s	Z	ART. Nr
6	10	30	5	3	ALC242.060.010.030.R
6	10	30	5	3	ALC242.060.010.030.L

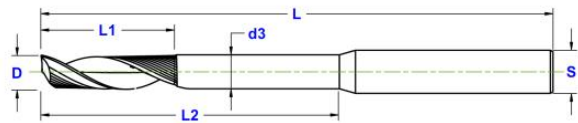
Frez VHM na zamówienie
Solid carbide spiral router on request



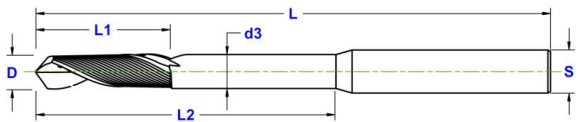
D	L1	L	s	Z



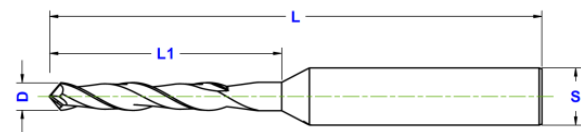
D	L1	L	s	Z



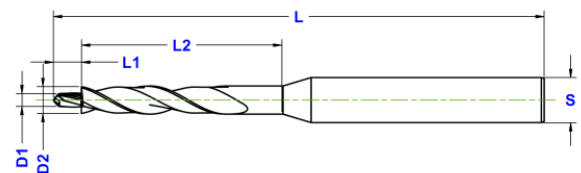
D	L1	L2	L	s	Z



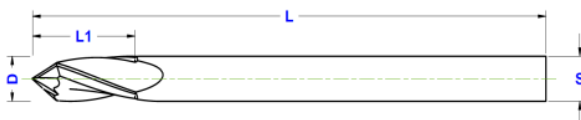
D	L1	L2	L	s	Z



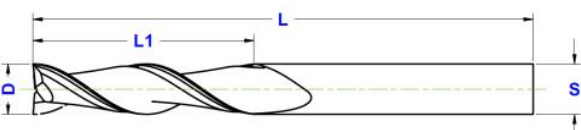
D	L1	L2	L	s	Z



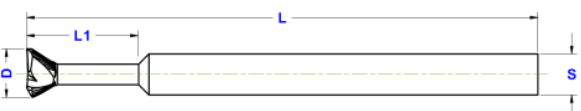
D 1/D2	L1	L2	L	s	Z



D	L1	L	s	Z



D	L1	L	s	Z



D	L1	L	s	Z



Frezy VHM do obróbki profilu PCV i ALU

Frezy VHM do obróbki
profilu PCV i ALU

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