

## Punte HM Integrali - Solid carbide tools

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WOOD



## A2000

Punte in hw (hm integrale) z=2 dritte s=6 per legno

*Hw(integral tungsten carbide)straight router bit  
z=2 s=6 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero  
*hHrd wood, hHrd wood, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte a 2 taglienti diritti, attacco s=6 mm Per macchine CNC . Per legno. Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Router bits with 2-straight cutting edges, shank s=6 mm For CNC router. For wood. Feed rate: 2 - 8 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2000	001	45000	2	6	50	2	Dx Rh	6	Dritta / Straight
A2000	002	45001	2.5	6	50	2	Dx Rh	6	Dritta / Straight
A2000	003	45002	3	10	50	2	Dx Rh	6	Dritta / Straight
A2000	004	45003	3.5	12	50	2	Dx Rh	6	Dritta / Straight
A2000	005	45004	4	15	50	2	Dx Rh	6	Dritta / Straight
A2000	006	45005	5	15	50	2	Dx Rh	6	Dritta / Straight
A2000	007	45006	5	20	50	2	Dx Rh	6	Dritta / Straight
A2000	008	45007	6	20	50	2	Dx Rh	6	Dritta / Straight
A2000	009	45008	6	25	50	2	Dx Rh	6	Dritta / Straight
A2000	101	45009	2	6	50	2	Sx Lh	6	Dritta / Straight
A2000	102	45010	2.5	6	50	2	Sx Lh	6	Dritta / Straight
A2000	103	45011	3	10	50	2	Sx Lh	6	Dritta / Straight
A2000	104	45012	3.5	12	50	2	Sx Lh	6	Dritta / Straight
A2000	105	45013	4	15	50	2	Sx Lh	6	Dritta / Straight
A2000	106	45014	5	15	50	2	Sx Lh	6	Dritta / Straight
A2000	107	45015	5	20	50	2	Sx Lh	6	Dritta / Straight
A2000	108	45016	6	20	50	2	Sx Lh	6	Dritta / Straight
A2000	109	45017	6	25	50	2	Sx Lh	6	Dritta / Straight

WOOD



## A0420

Punte elicoidali in hw (hm integrale) z=1 per legno

*Hw (integral tungsten carbide) helical router bits z=1*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI FINITURA su legni teneri, duri, M.D.F., truciolari e multistrati. ELICA POSITIVA: espulsione del truciolo verso l'alto, ottima finitura del lato inferiore del pannello, adatta anche per esecuzioni di asole non passanti; ELICA Negativa: espulsione del truciolo verso il basso, ottima finitura del lato superiore del pannello. Velocità di avanzamento: 2 - 6 m/min di 18 000 - 24 000 giri/min

*FOR FINISHING OPERATIONS on soft and hard wood, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for all working where drilling is most important. POSITIVE helix: expulsion of the chip upward, excellent finishing of lower side of panel, also suitable for blind button hole execution; NEGATIVE helix: expulsion of the chip downward, excellent finishing of upper side of panel. Feed rate: 2 - 6 m/min of 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0420	001	28120	3	12	40	1	Dx Rh	3	Positiva / Positive
A0420	002	28119	4	12	50	1	Dx Rh	4	Positiva / Positive
A0420	003	28118	5	17	50	1	Dx Rh	5	Positiva / Positive
A0420	004	28117	6	17	60	1	Dx Rh	6	Positiva / Positive
A0420	005	28116	6	27	60	1	Dx Rh	6	Positiva / Positive
A0420	006	28115	8	22	80	1	Dx Rh	8	Positiva / Positive
A0420	007	28114	8	32	80	1	Dx Rh	8	Positiva / Positive
A0420	008	28113	10	32	80	1	Dx Rh	10	Positiva / Positive
A0420	009	28112	10	42	100	1	Dx Rh	10	Positiva / Positive
A0420	010	28111	12	32	80	1	Dx Rh	12	Positiva / Positive
A0420	011	28110	12	42	100	1	Dx Rh	12	Positiva / Positive
A0420	012	28109	12	52	100	1	Dx Rh	12	Positiva / Positive
A0420	013	28108	14	42	100	1	Dx Rh	14	Positiva / Positive
A0420	014	28107	14	52	100	1	Dx Rh	14	Positiva / Positive
A0420	201	28665	3	12	40	1	Dx Rh	3	Negativa / Negative
A0420	202	28666	4	12	50	1	Dx Rh	4	Negativa / Negative
A0420	203	28667	5	17	50	1	Dx Rh	5	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0420	204	28668	6	17	60	1	Dx Rh	6	Negativa / Negative
A0420	205	28669	6	27	60	1	Dx Rh	6	Negativa / Negative
A0420	206	28670	8	22	80	1	Dx Rh	8	Negativa / Negative
A0420	207	28671	8	32	80	1	Dx Rh	8	Negativa / Negative
A0420	208	28672	10	32	80	1	Dx Rh	10	Negativa / Negative
A0420	209	28673	10	42	100	1	Dx Rh	10	Negativa / Negative
A0420	210	28674	12	32	80	1	Dx Rh	12	Negativa / Negative
A0420	211	28675	12	42	100	1	Dx Rh	12	Negativa / Negative
A0420	212	28676	12	52	100	1	Dx Rh	12	Negativa / Negative
A0420	213	28677	14	42	100	1	Dx Rh	14	Negativa / Negative
A0420	214	28678	14	52	100	1	Dx Rh	14	Negativa / Negative
A0420	101	28738	3	12	40	1	Sx Lh	3	Positiva / Positive
A0420	102	28739	4	12	50	1	Sx Lh	4	Positiva / Positive
A0420	103	28740	5	17	50	1	Sx Lh	5	Positiva / Positive
A0420	104	28741	6	17	60	1	Sx Lh	6	Positiva / Positive
A0420	105	28742	6	27	60	1	Sx Lh	6	Positiva / Positive
A0420	106	28743	8	22	80	1	Sx Lh	8	Positiva / Positive
A0420	107	28744	8	32	80	1	Sx Lh	8	Positiva / Positive
A0420	108	28745	10	32	80	1	Sx Lh	10	Positiva / Positive
A0420	109	28746	10	42	100	1	Sx Lh	10	Positiva / Positive
A0420	110	28747	12	32	80	1	Sx Lh	12	Positiva / Positive
A0420	111	28748	12	42	100	1	Sx Lh	12	Positiva / Positive
A0420	112	28749	12	52	100	1	Sx Lh	12	Positiva / Positive
A0420	113	28750	14	42	100	1	Sx Lh	14	Positiva / Positive
A0420	114	28751	14	52	100	1	Sx Lh	14	Positiva / Positive
A0420	301	28811	3	12	40	1	Sx Lh	3	Negativa / Negative
A0420	302	28812	4	12	50	1	Sx Lh	4	Negativa / Negative
A0420	303	28813	5	17	50	1	Sx Lh	5	Negativa / Negative
A0420	304	28814	6	17	60	1	Sx Lh	6	Negativa / Negative
A0420	305	28815	6	27	60	1	Sx Lh	6	Negativa / Negative
A0420	306	28816	8	22	80	1	Sx Lh	8	Negativa / Negative
A0420	307	28817	8	32	80	1	Sx Lh	8	Negativa / Negative
A0420	308	28818	10	32	80	1	Sx Lh	10	Negativa / Negative
A0420	309	28819	10	42	100	1	Sx Lh	10	Negativa / Negative
A0420	310	28820	12	32	80	1	Sx Lh	12	Negativa / Negative
A0420	311	28821	12	42	100	1	Sx Lh	12	Negativa / Negative
A0420	312	28822	12	52	100	1	Sx Lh	12	Negativa / Negative
A0420	313	28823	14	42	100	1	Sx Lh	14	Negativa / Negative
A0420	314	28824	14	52	100	1	Sx Lh	14	Negativa / Negative



WOOD



## A2001

Punte in hw (hm integrale) z=2 dritte con rompitruciolo s=6 per legno

*Hw(integral tungsten carbide)straight router bit z=2 with chipbreaker s=6 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero  
*hHrd wood, hHrd wood, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte a 2 taglienti diritti con rompitruciolo, attacco s=6 mm Per macchine CNC . Per legno. Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Router bits with 2-straight cutting edges with chipbreaker, shank s=6 mm For CNC router. For wood. Feed rate: 2 - 8 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2001	001	45018	2	6	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	002	45019	2.5	6	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	003	45020	3	10	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	004	45021	3.5	12	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	005	45022	4	15	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	006	45023	5	15	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	007	45024	5	20	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	008	45025	6	20	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	009	45026	6	25	50	2R	Si-Yes	Dx Rh	6	3	Dritta / Straight
A2001	101	45027	2	6	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	102	45028	2.5	6	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	103	45029	3	10	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	104	45030	3.5	12	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	105	45031	4	15	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	106	45032	5	15	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	107	45033	5	20	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	108	45034	6	20	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight
A2001	109	45035	6	25	50	2R	Si-Yes	Sx Lh	6	3	Dritta / Straight

WOOD



## A0423

Punte elicoidali in hw (hm integrale) z=2 per legno

*Hw (integral tungsten carbide) helical router bits z=2*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

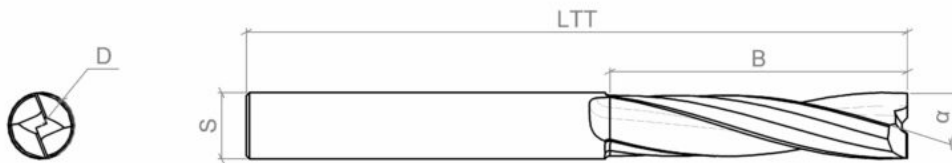
### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI FINITURA su legni teneri, duri, M.D.F., truciolari e multistrati. ELICA POSITIVA: espulsione del truciolo verso l'alto, ottima finitura del lato inferiore del pannello, adatta anche per esecuzioni di asole non passanti. ELICA Negativa: espulsione del truciolo verso il basso, ottima finitura del lato superiore del pannello. Finitura Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*FOR FINISHING OPERATIONS on soft and hard wood, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for all working where drilling is most important. POSITIVE helix: expulsion of the chip upward, excellent finishing of lower side of panel, also suitable for blind button hole execution; NEGATIVE helix: expulsion of the chip downward, excellent finishing of upper side of panel. Finishing. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0423	001	28121	3	12	40	2	Dx Rh	3	Positiva / Positive
A0423	002	28122	4	15	40	2	Dx Rh	4	Positiva / Positive
A0423	003	28123	5	17	50	2	Dx Rh	5	Positiva / Positive
A0423	004	28124	6	17	50	2	Dx Rh	6	Positiva / Positive
A0423	005	28125	6	27	60	2	Dx Rh	6	Positiva / Positive
A0423	006	28126	8	22	70	2	Dx Rh	8	Positiva / Positive
A0423	007	28127	8	32	80	2	Dx Rh	8	Positiva / Positive
A0423	008	28128	10	32	80	2	Dx Rh	10	Positiva / Positive
A0423	009	28129	10	42	100	2	Dx Rh	10	Positiva / Positive
A0423	010	28130	12	32	80	2	Dx Rh	12	Positiva / Positive
A0423	011	28131	12	42	100	2	Dx Rh	12	Positiva / Positive
A0423	012	28132	12	52	100	2	Dx Rh	12	Positiva / Positive
A0423	013	28133	14	42	100	2	Dx Rh	14	Positiva / Positive
A0423	014	28134	14	52	100	2	Dx Rh	14	Positiva / Positive
A0423	015	28135	16	42	100	2	Dx Rh	16	Positiva / Positive
A0423	016	28136	16	52	100	2	Dx Rh	16	Positiva / Positive
A0423	017	28137	16	62	100	2	Dx Rh	16	Positiva / Positive
A0423	018	28138	18	52	100	2	Dx Rh	18	Positiva / Positive
A0423	019	28139	18	75	125	2	Dx Rh	18	Positiva / Positive
A0423	020	28140	20	52	100	2	Dx Rh	20	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0423	021	28141	20	75	120	2	Dx Rh	20	Positiva / Positive
A0423	101	28752	3	12	40	2	Sx Lh	3	Positiva / Positive
A0423	102	28753	4	15	40	2	Sx Lh	4	Positiva / Positive
A0423	103	28754	5	17	50	2	Sx Lh	5	Positiva / Positive
A0423	104	28755	6	17	50	2	Sx Lh	6	Positiva / Positive
A0423	105	28756	6	27	60	2	Sx Lh	6	Positiva / Positive
A0423	106	28757	8	22	70	2	Sx Lh	8	Positiva / Positive
A0423	107	28758	8	32	80	2	Sx Lh	8	Positiva / Positive
A0423	108	28759	10	32	80	2	Sx Lh	10	Positiva / Positive
A0423	109	28760	10	42	100	2	Sx Lh	10	Positiva / Positive
A0423	110	28761	12	32	80	2	Sx Lh	12	Positiva / Positive
A0423	111	28762	12	42	100	2	Sx Lh	12	Positiva / Positive
A0423	112	28763	12	52	100	2	Sx Lh	12	Positiva / Positive
A0423	113	28764	14	42	100	2	Sx Lh	14	Positiva / Positive
A0423	114	28765	14	52	100	2	Sx Lh	14	Positiva / Positive
A0423	115	28766	16	42	100	2	Sx Lh	16	Positiva / Positive
A0423	116	28767	16	52	100	2	Sx Lh	16	Positiva / Positive
A0423	117	28768	16	62	110	2	Sx Lh	16	Positiva / Positive
A0423	118	28769	18	52	100	2	Sx Lh	18	Positiva / Positive
A0423	119	28770	18	75	120	2	Sx Lh	18	Positiva / Positive
A0423	120	28771	20	52	100	2	Sx Lh	20	Positiva / Positive
A0423	121	28772	20	75	120	2	Sx Lh	20	Positiva / Positive
A0423	201	28679	3	12	40	2	Dx Rh	3	Negativa / Negative
A0423	202	28680	4	15	40	2	Dx Rh	4	Negativa / Negative
A0423	203	28681	5	17	50	2	Dx Rh	5	Negativa / Negative
A0423	204	28682	6	17	50	2	Dx Rh	6	Negativa / Negative
A0423	205	28683	6	27	60	2	Dx Rh	6	Negativa / Negative
A0423	206	28684	8	22	70	2	Dx Rh	8	Negativa / Negative
A0423	207	28685	8	32	80	2	Dx Rh	8	Negativa / Negative
A0423	208	28686	10	32	80	2	Dx Rh	10	Negativa / Negative
A0423	209	28687	10	42	100	2	Dx Rh	10	Negativa / Negative
A0423	210	28688	12	32	80	2	Dx Rh	12	Negativa / Negative
A0423	211	28689	12	42	100	2	Dx Rh	12	Negativa / Negative
A0423	212	28690	12	52	100	2	Dx Rh	12	Negativa / Negative
A0423	213	28691	14	42	100	2	Dx Rh	14	Negativa / Negative
A0423	214	28692	14	52	100	2	Dx Rh	14	Negativa / Negative
A0423	215	28693	16	42	100	2	Dx Rh	16	Negativa / Negative
A0423	216	28694	16	52	100	2	Dx Rh	16	Negativa / Negative
A0423	217	28695	16	62	110	2	Dx Rh	16	Negativa / Negative
A0423	218	28696	18	52	100	2	Dx Rh	18	Negativa / Negative
A0423	219	28697	18	75	120	2	Dx Rh	18	Negativa / Negative
A0423	220	28698	20	52	100	2	Dx Rh	20	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0423	221	28699	20	75	120	2	Dx Rh	20	Negativa / Negative
A0423	301	28825	3	12	40	2	Sx Lh	3	Negativa / Negative
A0423	302	28826	4	15	40	2	Sx Lh	4	Negativa / Negative
A0423	303	28827	5	17	50	2	Sx Lh	5	Negativa / Negative
A0423	304	28828	6	17	50	2	Sx Lh	6	Negativa / Negative
A0423	305	28829	6	27	60	2	Sx Lh	6	Negativa / Negative
A0423	306	28830	8	22	70	2	Sx Lh	8	Negativa / Negative
A0423	307	28831	8	32	80	2	Sx Lh	8	Negativa / Negative
A0423	308	28832	10	32	80	2	Sx Lh	10	Negativa / Negative
A0423	309	28833	10	42	100	2	Sx Lh	10	Negativa / Negative
A0423	310	28834	12	32	80	2	Sx Lh	12	Negativa / Negative
A0423	311	28835	12	42	100	2	Sx Lh	12	Negativa / Negative
A0423	312	28836	12	52	100	2	Sx Lh	12	Negativa / Negative
A0423	313	28837	14	42	100	2	Sx Lh	14	Negativa / Negative
A0423	314	28838	14	52	100	2	Sx Lh	14	Negativa / Negative
A0423	315	28839	16	42	100	2	Sx Lh	16	Negativa / Negative
A0423	316	28840	16	52	100	2	Sx Lh	16	Negativa / Negative
A0423	317	28841	16	62	110	2	Sx Lh	16	Negativa / Negative
A0423	318	28842	18	52	100	2	Sx Lh	18	Negativa / Negative
A0423	319	28843	18	75	120	2	Sx Lh	18	Negativa / Negative
A0423	320	28844	20	52	100	2	Sx Lh	20	Negativa / Negative
A0423	321	28845	20	75	120	2	Sx Lh	20	Negativa / Negative

WOOD



## A2002

Punte in hw (hm integrale) z=2 dritte s=8 per legno

*Hw(integral tungsten carbide)straight router bit  
z=2 s=8 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero  
*hHrd wood, hHrd wood, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte a 2 taglienti diritti, attacco s=8 mm Per macchine CNC . Per legno. Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Router bits with 2-straight cutting edges, shank s=8 mm For CNC router. For wood. Feed rate: 2 - 8 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2002	001	45036	2	6	50	2	Dx Rh	8	Dritta / Straight
A2002	002	45037	3	10	50	2	Dx Rh	8	Dritta / Straight
A2002	003	45038	4	15	50	2	Dx Rh	8	Dritta / Straight
A2002	004	45039	5	15	50	2	Dx Rh	8	Dritta / Straight
A2002	005	45040	5	20	60	2	Dx Rh	8	Dritta / Straight
A2002	006	45041	6	20	60	2	Dx Rh	8	Dritta / Straight
A2002	007	45042	6	25	65	2	Dx Rh	8	Dritta / Straight
A2002	008	45043	7	25	65	2	Dx Rh	8	Dritta / Straight
A2002	009	45044	8	25	65	2	Dx Rh	8	Dritta / Straight
A2002	010	45045	8	30	70	2	Dx Rh	8	Dritta / Straight
A2002	101	45046	2	6	50	2	Sx Lh	8	Dritta / Straight
A2002	102	45047	3	10	50	2	Sx Lh	8	Dritta / Straight
A2002	103	45048	4	15	50	2	Sx Lh	8	Dritta / Straight
A2002	104	45049	5	15	50	2	Sx Lh	8	Dritta / Straight
A2002	105	45050	5	20	60	2	Sx Lh	8	Dritta / Straight
A2002	106	45051	6	20	60	2	Sx Lh	8	Dritta / Straight
A2002	107	45052	6	25	65	2	Sx Lh	8	Dritta / Straight
A2002	108	45053	7	25	65	2	Sx Lh	8	Dritta / Straight
A2002	109	45054	8	25	65	2	Sx Lh	8	Dritta / Straight
A2002	110	45055	8	30	70	2	Sx Lh	8	Dritta / Straight

WOOD



## A2004

Punte elicoidali in hw (hm integrale) z=2 con rompitruciolo a finire per legno

*Hw (integral tungsten carbide) helical router bits z=2 with chipbreaker for finishing for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 8 m/min Velocità di rotazione 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2004	001	45076	3	12	40	2R	Si-Yes	Dx Rh	3	3	Positiva / Positive
A2004	002	45077	4	15	40	2R	Si-Yes	Dx Rh	4	3	Positiva / Positive
A2004	003	45078	5	17	50	2R	Si-Yes	Dx Rh	5	3	Positiva / Positive
A2004	004	45079	6	17	50	2R	Si-Yes	Dx Rh	6	3	Positiva / Positive
A2004	005	45080	6	27	60	2R	Si-Yes	Dx Rh	6	3	Positiva / Positive
A2004	006	45081	8	22	70	2R	Si-Yes	Dx Rh	8	3	Positiva / Positive
A2004	007	45082	8	32	80	2R	Si-Yes	Dx Rh	8	3	Positiva / Positive
A2004	008	45083	10	32	80	2R	Si-Yes	Dx Rh	10	3	Positiva / Positive
A2004	009	45084	10	42	100	2R	Si-Yes	Dx Rh	10	3	Positiva / Positive
A2004	010	45085	12	32	80	2R	Si-Yes	Dx Rh	12	3	Positiva / Positive
A2004	011	45086	12	42	100	2R	Si-Yes	Dx Rh	12	3	Positiva / Positive
A2004	012	45087	12	52	100	2R	Si-Yes	Dx Rh	12	3	Positiva / Positive
A2004	013	45088	14	42	100	2R	Si-Yes	Dx Rh	14	3	Positiva / Positive
A2004	014	45089	14	52	100	2R	Si-Yes	Dx Rh	14	3	Positiva / Positive
A2004	015	45090	16	42	100	2R	Si-Yes	Dx Rh	16	3	Positiva / Positive
A2004	016	45091	16	52	100	2R	Si-Yes	Dx Rh	16	3	Positiva / Positive
A2004	017	45092	16	62	110	2R	Si-Yes	Dx Rh	16	3	Positiva / Positive
A2004	018	45093	18	52	100	2R	Si-Yes	Dx Rh	18	3	Positiva / Positive
A2004	019	45094	18	75	120	2R	Si-Yes	Dx Rh	18	3	Positiva / Positive
A2004	020	45095	20	52	100	2R	Si-Yes	Dx Rh	20	3	Positiva / Positive
A2004	021	45096	20	75	120	2R	Si-Yes	Dx Rh	20	3	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2004	101	45097	3	12	40	2R	Si-Yes	Sx Lh	3	3	Positiva / Positive
A2004	102	45098	4	15	40	2R	Si-Yes	Sx Lh	4	3	Positiva / Positive
A2004	103	45099	5	17	50	2R	Si-Yes	Sx Lh	5	3	Positiva / Positive
A2004	104	45100	6	17	50	2R	Si-Yes	Sx Lh	6	3	Positiva / Positive
A2004	105	45101	6	27	60	2R	Si-Yes	Sx Lh	6	3	Positiva / Positive
A2004	106	45102	8	22	70	2R	Si-Yes	Sx Lh	8	3	Positiva / Positive
A2004	107	45103	8	32	80	2R	Si-Yes	Sx Lh	8	3	Positiva / Positive
A2004	108	45104	10	32	80	2R	Si-Yes	Sx Lh	10	3	Positiva / Positive
A2004	109	45105	10	42	100	2R	Si-Yes	Sx Lh	10	3	Positiva / Positive
A2004	110	45106	12	32	80	2R	Si-Yes	Sx Lh	12	3	Positiva / Positive
A2004	111	45107	12	42	100	2R	Si-Yes	Sx Lh	12	3	Positiva / Positive
A2004	112	45108	12	52	100	2R	Si-Yes	Sx Lh	12	3	Positiva / Positive
A2004	113	45109	14	42	100	2R	Si-Yes	Sx Lh	14	3	Positiva / Positive
A2004	114	45110	14	52	100	2R	Si-Yes	Sx Lh	14	3	Positiva / Positive
A2004	115	45111	16	42	100	2R	Si-Yes	Sx Lh	16	3	Positiva / Positive
A2004	116	45112	16	52	100	2R	Si-Yes	Sx Lh	16	3	Positiva / Positive
A2004	117	45113	16	62	110	2R	Si-Yes	Sx Lh	16	3	Positiva / Positive
A2004	118	45114	18	52	100	2R	Si-Yes	Sx Lh	18	3	Positiva / Positive
A2004	119	45115	18	75	120	2R	Si-Yes	Sx Lh	18	3	Positiva / Positive
A2004	120	45116	20	52	100	2R	Si-Yes	Sx Lh	20	3	Positiva / Positive
A2004	121	45117	20	75	120	2R	Si-Yes	Sx Lh	20	3	Positiva / Positive
A2004	201	45118	3	12	50	2R	Si-Yes	Dx Rh	3	3	Negativa / Negative
A2004	202	45119	4	15	50	2R	Si-Yes	Dx Rh	4	3	Negativa / Negative
A2004	203	45120	5	17	60	2R	Si-Yes	Dx Rh	5	3	Negativa / Negative
A2004	204	45121	6	17	60	2R	Si-Yes	Dx Rh	6	3	Negativa / Negative
A2004	205	45122	6	27	70	2R	Si-Yes	Dx Rh	6	3	Negativa / Negative
A2004	206	45123	8	22	80	2R	Si-Yes	Dx Rh	8	3	Negativa / Negative
A2004	207	45124	8	32	90	2R	Si-Yes	Dx Rh	8	3	Negativa / Negative
A2004	208	45125	10	32	90	2R	Si-Yes	Dx Rh	10	3	Negativa / Negative
A2004	209	45126	10	42	110	2R	Si-Yes	Dx Rh	10	3	Negativa / Negative
A2004	210	45127	12	32	90	2R	Si-Yes	Dx Rh	12	3	Negativa / Negative
A2004	211	45128	12	42	110	2R	Si-Yes	Dx Rh	12	3	Negativa / Negative
A2004	212	45129	12	52	110	2R	Si-Yes	Dx Rh	12	3	Negativa / Negative
A2004	213	45130	14	42	110	2R	Si-Yes	Dx Rh	14	3	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2004	214	45131	14	52	110	2R	Si-Yes	Dx Rh	14	3	Negativa / Negative
A2004	215	45132	16	42	120	2R	Si-Yes	Dx Rh	16	3	Negativa / Negative
A2004	216	45133	16	52	120	2R	Si-Yes	Dx Rh	16	3	Negativa / Negative
A2004	217	45134	16	62	130	2R	Si-Yes	Dx Rh	16	3	Negativa / Negative
A2004	218	45135	18	52	120	2R	Si-Yes	Dx Rh	18	3	Negativa / Negative
A2004	219	45136	18	75	140	2R	Si-Yes	Dx Rh	18	3	Negativa / Negative
A2004	220	45137	20	52	120	2R	Si-Yes	Dx Rh	20	3	Negativa / Negative
A2004	221	45138	20	75	140	2R	Si-Yes	Dx Rh	20	3	Negativa / Negative
A2004	301	83991	3	12	50	2R	Si-Yes	Sx Lh	3	3	Negativa / Negative
A2004	302	45139	4	15	50	2R	Si-Yes	Sx Lh	4	3	Negativa / Negative
A2004	303	45140	5	17	60	2R	Si-Yes	Sx Lh	5	3	Negativa / Negative
A2004	304	45141	6	17	60	2R	Si-Yes	Sx Lh	6	3	Negativa / Negative
A2004	305	45142	6	27	70	2R	Si-Yes	Sx Lh	6	3	Negativa / Negative
A2004	306	45143	8	22	80	2R	Si-Yes	Sx Lh	8	3	Negativa / Negative
A2004	307	45144	8	32	90	2R	Si-Yes	Sx Lh	8	3	Negativa / Negative
A2004	308	45145	10	32	90	2R	Si-Yes	Sx Lh	10	3	Negativa / Negative
A2004	309	45146	10	42	110	2R	Si-Yes	Sx Lh	10	3	Negativa / Negative
A2004	310	45147	12	32	90	2R	Si-Yes	Sx Lh	12	3	Negativa / Negative
A2004	311	45148	12	42	110	2R	Si-Yes	Sx Lh	12	3	Negativa / Negative
A2004	312	45149	12	52	110	2R	Si-Yes	Sx Lh	12	3	Negativa / Negative
A2004	313	45150	14	42	110	2R	Si-Yes	Sx Lh	14	3	Negativa / Negative
A2004	314	45151	14	52	110	2R	Si-Yes	Sx Lh	14	3	Negativa / Negative
A2004	315	45152	16	42	120	2R	Si-Yes	Sx Lh	16	3	Negativa / Negative
A2004	316	45153	16	52	120	2R	Si-Yes	Sx Lh	16	3	Negativa / Negative
A2004	317	45154	16	62	130	2R	Si-Yes	Sx Lh	16	3	Negativa / Negative
A2004	318	45155	18	52	120	2R	Si-Yes	Sx Lh	18	3	Negativa / Negative
A2004	319	45156	18	75	140	2R	Si-Yes	Sx Lh	18	3	Negativa / Negative
A2004	320	45157	20	52	120	2R	Si-Yes	Sx Lh	20	3	Negativa / Negative
A2004	321	45158	20	75	140	2R	Si-Yes	Sx Lh	20	3	Negativa / Negative



WOOD



## A2003

Punte in hw (hm integrale) z=2 dritte con rompitruciolo s=8 per legno

*Hw(integral tungsten carbide)straight router bit z=2 with chipbreaker s=8 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero  
*hHrd wood, hHrd wood, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte a 2 taglianti diritti con rompitruciolo, attacco s=8 mm Per macchine CNC . Per legno. Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Router bits with 2-straight cutting edges with chipbreaker, shank s=8 mm For CNC router. For wood. Feed rate: 2 - 8 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2003	001	45056	2	6	50	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	002	45057	3	10	50	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	003	45058	4	15	50	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	004	45059	5	15	50	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	005	45060	5	20	60	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	006	45061	6	20	60	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	007	45062	6	25	65	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	008	45063	7	25	65	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	009	45064	8	25	65	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	010	45065	8	30	70	2R	Si-Yes	Dx Rh	8	3	Dritta / Straight
A2003	101	45066	2	6	50	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	102	45067	3	10	50	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	103	45068	4	15	50	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	104	45069	5	15	50	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	105	45070	5	20	60	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	106	45071	6	20	60	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	107	45072	6	25	65	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	108	45073	7	25	65	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	109	45074	8	25	65	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight
A2003	110	45075	8	30	70	2R	Si-Yes	Sx Lh	8	3	Dritta / Straight

WOOD



## A2005

Punte elicoidali in hw (hm integrale) z=2 con rompitruciolo a semifinire per legno

*Hw (integral tungsten carbide) helical router bits z=2 with chipbreaker for semi-fining for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per semi-finitura, Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Semi-finishing operation. Feed rate: 2 - 8 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2005	001	45159	3	12	40	2R	Si-Yes	Dx Rh	3	1	Positiva / Positive
A2005	002	45160	4	15	40	2R	Si-Yes	Dx Rh	4	1	Positiva / Positive
A2005	003	45161	5	17	50	2R	Si-Yes	Dx Rh	5	1	Positiva / Positive
A2005	004	45162	6	17	50	2R	Si-Yes	Dx Rh	6	1	Positiva / Positive
A2005	005	45163	6	27	60	2R	Si-Yes	Dx Rh	6	1	Positiva / Positive
A2005	006	45164	8	22	70	2R	Si-Yes	Dx Rh	8	1	Positiva / Positive
A2005	007	45165	8	32	80	2R	Si-Yes	Dx Rh	8	1	Positiva / Positive
A2005	008	45166	10	32	80	2R	Si-Yes	Dx Rh	10	1.5	Positiva / Positive
A2005	009	45167	10	42	100	2R	Si-Yes	Dx Rh	10	1.5	Positiva / Positive
A2005	010	45168	12	32	80	2R	Si-Yes	Dx Rh	12	1.5	Positiva / Positive
A2005	011	45169	12	42	100	2R	Si-Yes	Dx Rh	12	1.5	Positiva / Positive
A2005	012	45170	12	52	100	2R	Si-Yes	Dx Rh	12	1.5	Positiva / Positive
A2005	013	45171	14	42	100	2R	Si-Yes	Dx Rh	14	1.5	Positiva / Positive
A2005	014	45172	14	52	100	2R	Si-Yes	Dx Rh	14	1.5	Positiva / Positive
A2005	015	45173	16	42	100	2R	Si-Yes	Dx Rh	16	1.5	Positiva / Positive
A2005	016	45174	16	52	100	2R	Si-Yes	Dx Rh	16	1.5	Positiva / Positive
A2005	017	45175	16	62	110	2R	Si-Yes	Dx Rh	16	1.5	Positiva / Positive
A2005	018	45176	18	52	100	2R	Si-Yes	Dx Rh	18	1.5	Positiva / Positive
A2005	019	45177	18	75	120	2R	Si-Yes	Dx Rh	18	1.5	Positiva / Positive
A2005	020	45178	20	52	100	2R	Si-Yes	Dx Rh	20	1.5	Positiva / Positive
A2005	021	45179	20	75	120	2R	Si-Yes	Dx Rh	20	1.5	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2005	101	45180	3	12	40	2R	Si-Yes	Sx Lh	3	1	Positiva / Positive
A2005	102	45181	4	15	40	2R	Si-Yes	Sx Lh	4	1	Positiva / Positive
A2005	103	45182	5	17	50	2R	Si-Yes	Sx Lh	5	1	Positiva / Positive
A2005	104	45183	6	17	50	2R	Si-Yes	Sx Lh	6	1	Positiva / Positive
A2005	105	45184	6	27	60	2R	Si-Yes	Sx Lh	6	1	Positiva / Positive
A2005	106	45185	8	22	70	2R	Si-Yes	Sx Lh	8	1	Positiva / Positive
A2005	107	45186	8	32	80	2R	Si-Yes	Sx Lh	8	1	Positiva / Positive
A2005	108	45187	10	32	80	2R	Si-Yes	Sx Lh	10	1.5	Positiva / Positive
A2005	109	45188	10	42	100	2R	Si-Yes	Sx Lh	10	1.5	Positiva / Positive
A2005	110	45189	12	32	80	2R	Si-Yes	Sx Lh	12	1.5	Positiva / Positive
A2005	111	45190	12	42	100	2R	Si-Yes	Sx Lh	12	1.5	Positiva / Positive
A2005	112	45191	12	52	100	2R	Si-Yes	Sx Lh	12	1.5	Positiva / Positive
A2005	113	45192	14	42	100	2R	Si-Yes	Sx Lh	14	1.5	Positiva / Positive
A2005	114	45193	14	52	100	2R	Si-Yes	Sx Lh	14	1.5	Positiva / Positive
A2005	115	45194	16	42	100	2R	Si-Yes	Sx Lh	16	1.5	Positiva / Positive
A2005	116	45195	16	52	100	2R	Si-Yes	Sx Lh	16	1.5	Positiva / Positive
A2005	117	45196	16	62	110	2R	Si-Yes	Sx Lh	16	1.5	Positiva / Positive
A2005	118	45197	18	52	100	2R	Si-Yes	Sx Lh	18	1.5	Positiva / Positive
A2005	119	45198	18	75	120	2R	Si-Yes	Sx Lh	18	1.5	Positiva / Positive
A2005	120	45199	20	52	100	2R	Si-Yes	Sx Lh	20	1.5	Positiva / Positive
A2005	121	45200	20	75	120	2R	Si-Yes	Sx Lh	20	1.5	Positiva / Positive
A2005	201	45201	3	12	40	2R	Si-Yes	Dx Rh	3	1	Negativa / Negative
A2005	202	45202	4	15	40	2R	Si-Yes	Dx Rh	4	1	Negativa / Negative
A2005	203	45203	5	17	50	2R	Si-Yes	Dx Rh	5	1	Negativa / Negative
A2005	204	45204	6	17	50	2R	Si-Yes	Dx Rh	6	1	Negativa / Negative
A2005	205	45205	6	27	60	2R	Si-Yes	Dx Rh	6	1	Negativa / Negative
A2005	206	45206	8	22	70	2R	Si-Yes	Dx Rh	8	1	Negativa / Negative
A2005	207	45207	8	32	80	2R	Si-Yes	Dx Rh	8	1	Negativa / Negative
A2005	208	45208	10	32	80	2R	Si-Yes	Dx Rh	10	1.5	Negativa / Negative
A2005	209	45209	10	42	100	2R	Si-Yes	Dx Rh	10	1.5	Negativa / Negative
A2005	210	45210	12	32	80	2R	Si-Yes	Dx Rh	12	1.5	Negativa / Negative
A2005	211	45211	12	42	100	2R	Si-Yes	Dx Rh	12	1.5	Negativa / Negative
A2005	212	45212	12	52	100	2R	Si-Yes	Dx Rh	12	1.5	Negativa / Negative
A2005	213	45213	14	42	100	2R	Si-Yes	Dx Rh	14	1.5	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2005	214	45214	14	52	100	2R	Si-Yes	Dx Rh	14	1.5	Negativa / Negative
A2005	215	45215	16	42	100	2R	Si-Yes	Dx Rh	16	1.5	Negativa / Negative
A2005	216	45216	16	52	100	2R	Si-Yes	Dx Rh	16	1.5	Negativa / Negative
A2005	217	45217	16	62	110	2R	Si-Yes	Dx Rh	16	1.5	Negativa / Negative
A2005	218	45218	18	52	100	2R	Si-Yes	Dx Rh	18	1.5	Negativa / Negative
A2005	219	45219	18	75	120	2R	Si-Yes	Dx Rh	18	1.5	Negativa / Negative
A2005	220	45220	20	52	100	2R	Si-Yes	Dx Rh	20	1.5	Negativa / Negative
A2005	221	45221	20	75	120	2R	Si-Yes	Dx Rh	20	1.5	Negativa / Negative
A2005	301	45222	3	12	40	2R	Si-Yes	Sx Lh	3	1	Negativa / Negative
A2005	302	45223	4	15	40	2R	Si-Yes	Sx Lh	4	1	Negativa / Negative
A2005	303	45224	5	17	50	2R	Si-Yes	Sx Lh	5	1	Negativa / Negative
A2005	304	45225	6	17	50	2R	Si-Yes	Sx Lh	6	1	Negativa / Negative
A2005	305	45226	6	27	60	2R	Si-Yes	Sx Lh	6	1	Negativa / Negative
A2005	306	45227	8	22	70	2R	Si-Yes	Sx Lh	8	1	Negativa / Negative
A2005	307	45228	8	32	80	2R	Si-Yes	Sx Lh	8	1	Negativa / Negative
A2005	308	45229	10	32	80	2R	Si-Yes	Sx Lh	10	1.5	Negativa / Negative
A2005	309	45230	10	42	100	2R	Si-Yes	Sx Lh	10	1.5	Negativa / Negative
A2005	310	45231	12	32	80	2R	Si-Yes	Sx Lh	12	1.5	Negativa / Negative
A2005	311	45232	12	42	100	2R	Si-Yes	Sx Lh	12	1.5	Negativa / Negative
A2005	312	45233	12	52	100	2R	Si-Yes	Sx Lh	12	1.5	Negativa / Negative
A2005	313	45234	14	42	100	2R	Si-Yes	Sx Lh	14	1.5	Negativa / Negative
A2005	314	45235	14	52	100	2R	Si-Yes	Sx Lh	14	1.5	Negativa / Negative
A2005	315	45236	16	42	100	2R	Si-Yes	Sx Lh	16	1.5	Negativa / Negative
A2005	316	45237	16	52	100	2R	Si-Yes	Sx Lh	16	1.5	Negativa / Negative
A2005	317	45238	16	62	110	2R	Si-Yes	Sx Lh	16	1.5	Negativa / Negative
A2005	318	45239	18	52	100	2R	Si-Yes	Sx Lh	18	1.5	Negativa / Negative
A2005	319	45240	18	75	120	2R	Si-Yes	Sx Lh	18	1.5	Negativa / Negative
A2005	320	45241	20	52	100	2R	Si-Yes	Sx Lh	20	1.5	Negativa / Negative
A2005	321	45242	20	75	120	2R	Si-Yes	Sx Lh	20	1.5	Negativa / Negative



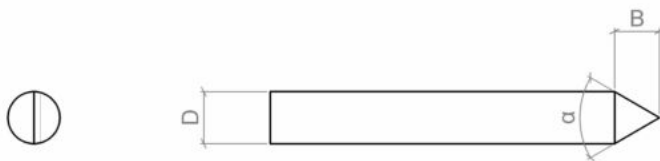
## A2152

Bulini per incisioni  
*Burin for engraving*

### DESCRIZIONE / DESCRIPTION

Bulino per la realizzazione di scritte ed incisioni.

*Burin for writing and engraving.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	B1	ROT	ALFA	GT
A2152	001	97015	12	6	100	1	12	Dx Rh	60	Dritta / Straight
A2152	002	97467	12	6	100	1	12	Dx Rh	90	Dritta / Straight

WOOD



## A2006

Punte elicoidali in hw (hm integrale) z=2 con rompitruciolo per sgrossatura per legno

*Hw (integral tungsten carbide) helical router bits z=2 with chipbreaker for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per sgrossatura, Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Roughing operation. Feed rate: 2 - 8 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2006	001	45243	3	12	40	2R	Si-Yes	Dx Rh	3	1.5	Positiva / Positive
A2006	002	45244	4	15	40	2R	Si-Yes	Dx Rh	4	1.5	Positiva / Positive
A2006	003	45245	5	17	50	2R	Si-Yes	Dx Rh	5	1.5	Positiva / Positive
A2006	004	45246	6	17	50	2R	Si-Yes	Dx Rh	6	1.5	Positiva / Positive
A2006	005	45247	6	27	60	2R	Si-Yes	Dx Rh	6	1.5	Positiva / Positive
A2006	006	45248	8	22	70	2R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A2006	007	45249	8	32	80	2R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A2006	008	45250	10	32	80	2R	Si-Yes	Dx Rh	10	2	Positiva / Positive
A2006	009	45251	10	42	100	2	Si-Yes	Dx Rh	10	2	Positiva / Positive
A2006	010	45252	12	32	80	2R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2006	011	45253	12	42	100	2	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2006	012	45254	12	52	100	2R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2006	013	45255	14	42	100	2R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A2006	014	45256	14	52	100	2R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A2006	015	45257	16	42	100	2R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2006	016	45258	16	52	100	2	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2006	017	45259	16	62	110	2R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2006	018	45260	18	52	100	2R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A2006	019	45261	18	75	120	2R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A2006	020	45262	20	52	100	2R	Si-Yes	Dx Rh	20	2	Positiva / Positive
A2006	021	45263	20	75	120	2R	Si-Yes	Dx Rh	20	2	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2006	101	45264	3	12	40	2R	Si-Yes	Sx Lh	3	1.5	Positiva / Positive
A2006	102	45265	4	15	40	2R	Si-Yes	Sx Lh	4	1.5	Positiva / Positive
A2006	103	45266	5	17	50	2R	Si-Yes	Sx Lh	5	1.5	Positiva / Positive
A2006	104	45267	6	17	50	2R	Si-Yes	Sx Lh	6	1.5	Positiva / Positive
A2006	105	45268	6	27	60	2R	Si-Yes	Sx Lh	6	1.5	Positiva / Positive
A2006	106	45269	8	22	70	2R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive
A2006	107	45270	8	32	80	2R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive
A2006	108	45271	10	32	80	2R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A2006	109	45272	10	42	100	2R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A2006	110	45273	12	32	80	2R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2006	111	45274	12	42	100	2R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2006	112	45275	12	52	100	2R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2006	113	45276	14	42	100	2R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A2006	114	45277	14	52	100	2R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A2006	115	45278	16	42	100	2R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2006	116	45279	16	52	100	2R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2006	117	45280	16	62	110	2R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2006	118	45281	18	52	100	2R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A2006	119	45282	18	75	120	2R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A2006	120	45283	20	52	100	2R	Si-Yes	Sx Lh	20	2	Positiva / Positive
A2006	121	45284	20	75	120	2R	Si-Yes	Sx Lh	20	2	Positiva / Positive
A2006	201	45285	3	12	40	2R	Si-Yes	Dx Rh	3	1.5	Negativa / Negative
A2006	202	45286	4	15	40	2R	Si-Yes	Dx Rh	4	1.5	Negativa / Negative
A2006	203	45287	5	17	50	2R	Si-Yes	Dx Rh	5	1.5	Negativa / Negative
A2006	204	45288	6	17	50	2R	Si-Yes	Dx Rh	6	1.5	Negativa / Negative
A2006	205	45289	6	27	60	2R	Si-Yes	Dx Rh	6	1.5	Negativa / Negative
A2006	206	45290	8	22	70	2R	Si-Yes	Dx Rh	8	1.5	Negativa / Negative
A2006	207	45291	8	32	80	2R	Si-Yes	Dx Rh	8	1.5	Negativa / Negative
A2006	208	45292	10	32	80	2R	Si-Yes	Dx Rh	10	2	Negativa / Negative
A2006	209	45293	10	42	100	2R	Si-Yes	Dx Rh	10	2	Negativa / Negative
A2006	210	45294	12	32	80	2R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A2006	211	45295	12	42	100	2R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A2006	212	45296	12	52	100	2R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A2006	213	45297	14	42	100	2R	Si-Yes	Dx Rh	14	2	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2006	214	45298	14	52	100	2R	Si-Yes	Dx Rh	14	2	Negativa / Negative
A2006	215	45299	16	42	100	2R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A2006	216	45300	16	52	100	2R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A2006	217	45301	16	62	110	2R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A2006	218	45302	18	52	100	2R	Si-Yes	Dx Rh	18	2	Negativa / Negative
A2006	219	45303	18	75	120	2R	Si-Yes	Dx Rh	18	2	Negativa / Negative
A2006	220	45304	20	52	100	2R	Si-Yes	Dx Rh	20	2	Negativa / Negative
A2006	221	45305	20	75	120	2R	Si-Yes	Dx Rh	20	2	Negativa / Negative
A2006	301	45306	3	12	40	2R	Si-Yes	Sx Lh	3	1.5	Negativa / Negative
A2006	302	45307	4	15	40	2R	Si-Yes	Sx Lh	4	1.5	Negativa / Negative
A2006	303	45308	5	17	50	2R	Si-Yes	Sx Lh	5	1.5	Negativa / Negative
A2006	304	45309	6	17	50	2R	Si-Yes	Sx Lh	6	1.5	Negativa / Negative
A2006	305	45310	6	27	60	2R	Si-Yes	Sx Lh	6	1.5	Negativa / Negative
A2006	306	45311	8	22	70	2R	Si-Yes	Sx Lh	8	1.5	Negativa / Negative
A2006	307	45312	8	32	80	2R	Si-Yes	Sx Lh	8	1.5	Negativa / Negative
A2006	308	45313	10	32	80	2R	Si-Yes	Sx Lh	10	2	Negativa / Negative
A2006	309	45314	10	42	100	2R	Si-Yes	Sx Lh	10	2	Negativa / Negative
A2006	310	45315	12	32	80	2R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A2006	311	45316	12	42	100	2R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A2006	312	45317	12	52	100	2R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A2006	313	45318	14	42	100	2R	Si-Yes	Sx Lh	14	2	Negativa / Negative
A2006	314	45319	14	52	100	2R	Si-Yes	Sx Lh	14	2	Negativa / Negative
A2006	315	45320	16	42	100	2R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A2006	316	45321	16	52	100	2R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A2006	317	45322	16	62	110	2R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A2006	318	45323	18	52	100	2R	Si-Yes	Sx Lh	18	2	Negativa / Negative
A2006	319	45324	18	75	120	2R	Si-Yes	Sx Lh	18	2	Negativa / Negative
A2006	320	45325	20	52	100	2R	Si-Yes	Sx Lh	20	2	Negativa / Negative
A2006	321	45326	20	75	120	2R	Si-Yes	Sx Lh	20	2	Negativa / Negative



WOOD



## A2008

Punte elicoidali in hw (hm integrale) z=2 con testa torica per legno

*Hw (integral tungsten carbide) helical router bits z=2 toroidal for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

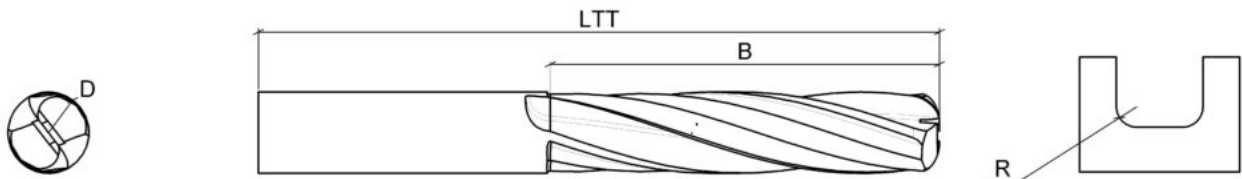
### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2008	001	91656	3	12	40	2	Dx Rh	3	0.5	Positiva / Positive
A2008	002	83993	4	15	40	2	Dx Rh	4	1	Positiva / Positive
A2008	003	83994	5	17	50	2	Dx Rh	5	1	Positiva / Positive
A2008	004	83995	6	17	50	2	Dx Rh	6	1	Positiva / Positive
A2008	005	83996	6	27	60	2	Dx Rh	6	1	Positiva / Positive
A2008	006	83997	8	22	70	2	Dx Rh	8	2	Positiva / Positive
A2008	007	83998	8	32	80	2	Dx Rh	8	2	Positiva / Positive
A2008	008	83999	10	32	80	2	Dx Rh	10	2	Positiva / Positive
A2008	009	84000	10	42	100	2	Dx Rh	10	2	Positiva / Positive
A2008	010	84001	12	32	80	2	Dx Rh	12	2	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2008	011	84002	12	42	100	2	Dx Rh	12	2	Positiva / Positive
A2008	012	84003	12	52	100	2	Dx Rh	12	2	Positiva / Positive
A2008	013	84004	14	42	100	2	Dx Rh	14	3	Positiva / Positive
A2008	014	84005	14	52	100	2	Dx Rh	14	3	Positiva / Positive
A2008	015	84006	16	42	100	2	Dx Rh	16	3	Positiva / Positive
A2008	016	84007	16	52	100	2	Dx Rh	16	3	Positiva / Positive
A2008	017	84008	16	62	110	2	Dx Rh	16	3	Positiva / Positive
A2008	018	84009	18	52	100	2	Dx Rh	18	3	Positiva / Positive
A2008	019	84010	18	75	120	2	Dx Rh	18	3	Positiva / Positive
A2008	020	84011	20	52	100	2	Dx Rh	20	4	Positiva / Positive
A2008	021	84012	20	75	120	2	Dx Rh	20	4	Positiva / Positive
A2008	101	84013	3	12	40	2	Sx Lh	3	0.5	Positiva / Positive
A2008	102	84014	4	15	40	2	Sx Lh	4	1	Positiva / Positive
A2008	103	84015	5	17	50	2	Sx Lh	5	1	Positiva / Positive
A2008	104	84016	6	17	50	2	Sx Lh	6	1	Positiva / Positive
A2008	105	84017	6	27	60	2	Sx Lh	6	1	Positiva / Positive
A2008	106	84018	8	22	70	2	Sx Lh	8	2	Positiva / Positive
A2008	107	84019	8	32	80	2	Sx Lh	8	2	Positiva / Positive
A2008	108	84020	10	32	80	2	Sx Lh	10	2	Positiva / Positive
A2008	109	84021	10	42	100	2	Sx Lh	10	2	Positiva / Positive
A2008	110	84022	12	32	80	2	Sx Lh	12	2	Positiva / Positive
A2008	111	84023	12	42	100	2	Sx Lh	12	2	Positiva / Positive
A2008	112	84024	12	52	100	2	Sx Lh	12	2	Positiva / Positive
A2008	113	84025	14	42	100	2	Sx Lh	14	3	Positiva / Positive
A2008	114	84026	14	52	100	2	Sx Lh	14	3	Positiva / Positive
A2008	115	84027	16	42	100	2	Sx Lh	16	3	Positiva / Positive
A2008	116	84028	16	52	100	2	Sx Lh	16	3	Positiva / Positive
A2008	117	84029	16	62	110	2	Sx Lh	16	3	Positiva / Positive
A2008	118	84030	18	52	100	2	Sx Lh	18	3	Positiva / Positive
A2008	119	84031	18	75	120	2	Sx Lh	18	3	Positiva / Positive
A2008	120	84032	20	52	100	2	Sx Lh	20	4	Positiva / Positive
A2008	121	84033	20	75	120	2	Sx Lh	20	4	Positiva / Positive

WOOD



## A0425

Punte elicoidali in hw (hm integrale) z=3 per legno

*Hw (integral tungsten carbide) helical router bits z=3*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI FINITURA su legni teneri, duri, M.D.F., truciolari e multistrati. ELICA POSITIVA: espulsione del truciolo verso l'alto, ottima finitura del lato inferiore del pannello, adatta anche per esecuzioni di asole non passanti. ELICA Negativa: espulsione del truciolo verso il basso, ottima finitura del lato superiore del pannello. Velocità di avanzamento: 2 -16 m/min di 18 000 - 24 000 giri/min

*FOR FINISHING OPERATIONS on soft and hard wood, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for all working where drilling is most important. POSITIVE helix: expulsion of the chip upward, excellent finishing of lower side of panel, also suitable for blind button hole execution; NEGATIVE helix: expulsion of the chip downward, excellent finishing of upper side of panel..Feed rate: 2 - 16 m/min of 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0425	001	28142	8	22	70	3	Dx Rh	8	Positiva / Positive
A0425	002	28143	8	32	80	3	Dx Rh	8	Positiva / Positive
A0425	003	28144	10	32	80	3	Dx Rh	10	Positiva / Positive
A0425	004	28145	10	42	100	3	Dx Rh	10	Positiva / Positive
A0425	005	28146	12	32	80	3	Dx Rh	12	Positiva / Positive
A0425	006	28147	12	42	100	3	Dx Rh	12	Positiva / Positive
A0425	007	28148	12	52	100	3	Dx Rh	12	Positiva / Positive
A0425	008	28149	14	42	100	3	Dx Rh	14	Positiva / Positive
A0425	009	28150	14	52	100	3	Dx Rh	14	Positiva / Positive
A0425	010	28151	16	42	100	3	Dx Rh	16	Positiva / Positive
A0425	011	28152	16	52	100	3	Dx Rh	16	Positiva / Positive
A0425	012	28153	16	62	110	3	Dx Rh	16	Positiva / Positive
A0425	013	28154	18	52	100	3	Dx Rh	18	Positiva / Positive
A0425	014	28155	18	75	125	3	Dx Rh	18	Positiva / Positive
A0425	015	28156	20	52	100	3	Dx Rh	20	Positiva / Positive
A0425	016	28157	20	75	130	3	Dx Rh	20	Positiva / Positive
A0425	101	28773	8	22	70	3	Sx Lh	8	Positiva / Positive
A0425	102	28774	8	32	80	3	Sx Lh	8	Positiva / Positive
A0425	103	28775	10	32	80	3	Sx Lh	10	Positiva / Positive
A0425	104	28776	10	42	100	3	Sx Lh	10	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0425	105	28777	12	32	80	3	Sx Lh	12	Positiva / Positive
A0425	106	28778	12	42	100	3	Sx Lh	12	Positiva / Positive
A0425	107	28779	12	52	100	3	Sx Lh	12	Positiva / Positive
A0425	108	28780	14	42	100	3	Sx Lh	14	Positiva / Positive
A0425	109	28781	14	52	100	3	Sx Lh	14	Positiva / Positive
A0425	110	28782	16	42	100	3	Sx Lh	16	Positiva / Positive
A0425	111	28783	16	52	100	3	Sx Lh	16	Positiva / Positive
A0425	112	28784	16	62	110	3	Sx Lh	16	Positiva / Positive
A0425	113	28785	18	52	100	3	Sx Lh	18	Positiva / Positive
A0425	114	28786	18	75	120	3	Sx Lh	18	Positiva / Positive
A0425	115	28787	20	52	100	3	Sx Lh	20	Positiva / Positive
A0425	116	28788	20	75	120	3	Sx Lh	20	Positiva / Positive
A0425	201	28700	8	22	70	3	Dx Rh	8	Negativa / Negative
A0425	202	28701	8	32	80	3	Dx Rh	8	Negativa / Negative
A0425	203	28702	10	32	80	3	Dx Rh	10	Negativa / Negative
A0425	204	28703	10	42	100	3	Dx Rh	10	Negativa / Negative
A0425	205	28704	12	32	80	3	Dx Rh	12	Negativa / Negative
A0425	206	28705	12	42	100	3	Dx Rh	12	Negativa / Negative
A0425	207	28706	12	52	100	3	Dx Rh	12	Negativa / Negative
A0425	208	28707	14	42	100	3	Dx Rh	14	Negativa / Negative
A0425	209	28708	14	52	100	3	Dx Rh	14	Negativa / Negative
A0425	210	28709	16	42	100	3	Dx Rh	16	Negativa / Negative
A0425	211	28710	16	52	120	3	Dx Rh	16	Negativa / Negative
A0425	212	28711	16	62	110	3	Dx Rh	16	Negativa / Negative
A0425	213	28712	18	52	100	3	Dx Rh	18	Negativa / Negative
A0425	214	28713	18	75	120	3	Dx Rh	18	Negativa / Negative
A0425	215	28714	20	52	100	3	Dx Rh	20	Negativa / Negative
A0425	216	28715	20	75	120	3	Dx Rh	20	Negativa / Negative
A0425	301	28846	8	22	70	3	Sx Lh	8	Negativa / Negative
A0425	302	28847	8	32	80	3	Sx Lh	8	Negativa / Negative
A0425	303	28848	10	32	80	3	Sx Lh	10	Negativa / Negative
A0425	304	28849	10	42	100	3	Sx Lh	10	Negativa / Negative
A0425	305	28850	12	32	80	3	Sx Lh	12	Negativa / Negative
A0425	306	28851	12	42	100	3	Sx Lh	12	Negativa / Negative
A0425	307	28852	12	52	100	3	Sx Lh	12	Negativa / Negative
A0425	308	28853	14	42	100	3	Sx Lh	14	Negativa / Negative
A0425	309	28854	14	52	100	3	Sx Lh	14	Negativa / Negative
A0425	310	28855	16	42	100	3	Sx Lh	16	Negativa / Negative
A0425	311	28856	16	52	100	3	Sx Lh	16	Negativa / Negative

<b>ART</b>	<b>COD</b>	<b>DRW</b>	<b>D</b>	<b>B</b>	<b>LTT</b>	<b>Z</b>	<b>ROT</b>	<b>S</b>	<b>GT</b>
A0425	312	28857	16	62	110	3	Sx Lh	16	Negativa / Negative
A0425	313	28858	18	52	100	3	Sx Lh	18	Negativa / Negative
A0425	314	28859	18	75	120	3	Sx Lh	18	Negativa / Negative
A0425	315	28860	20	52	100	3	Sx Lh	20	Negativa / Negative
A0425	316	28861	20	75	120	3	Sx Lh	20	Negativa / Negative

WOOD



## A2010

Punte elicoidali in hw (hm integrale) z=3 con rompitruciolo a semifinire per legno

*Hw (integral tungsten carbide) helical router bits z=3 with chipbreaker for semi-finishing for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per semi finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Semi finishing operation. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2010	001	45441	6	27	60	3R	Si-Yes	Dx Rh	6	1	Positiva / Positive
A2010	002	45442	8	32	80	3R	Si-Yes	Dx Rh	8	1	Positiva / Positive
A2010	003	45443	10	42	100	3R	Si-Yes	Dx Rh	10	1.5	Positiva / Positive
A2010	004	45444	12	52	100	3R	Si-Yes	Dx Rh	12	1.5	Positiva / Positive
A2010	005	45445	14	52	100	3R	Si-Yes	Dx Rh	14	1.5	Positiva / Positive
A2010	006	45446	16	62	110	3R	Si-Yes	Dx Rh	16	1.5	Positiva / Positive
A2010	007	45447	18	75	120	3R	Si-Yes	Dx Rh	18	1.5	Positiva / Positive
A2010	008	45448	20	75	120	3R	Si-Yes	Dx Rh	20	1.5	Positiva / Positive
A2010	101	45449	6	27	60	3R	Si-Yes	Sx Lh	6	1	Positiva / Positive
A2010	102	45450	8	32	80	3R	Si-Yes	Sx Lh	8	1	Positiva / Positive
A2010	103	45451	10	42	100	3R	Si-Yes	Sx Lh	10	1.5	Positiva / Positive
A2010	104	45452	12	52	100	3R	Si-Yes	Sx Lh	12	1.5	Positiva / Positive
A2010	105	45453	14	52	100	3R	Si-Yes	Sx Lh	14	1.5	Positiva / Positive
A2010	106	45454	16	62	110	3R	Si-Yes	Sx Lh	16	1.5	Positiva / Positive
A2010	107	45455	18	75	120	3R	Si-Yes	Sx Lh	18	1.5	Positiva / Positive
A2010	108	45456	20	75	120	3R	Si-Yes	Sx Lh	20	1.5	Positiva / Positive
A2010	201	45457	6	27	60	3R	Si-Yes	Dx Rh	6	1	Negativa / Negative
A2010	202	45458	8	32	80	3R	Si-Yes	Dx Rh	8	1	Negativa / Negative
A2010	203	45459	10	42	100	3R	Si-Yes	Dx Rh	10	1.5	Negativa / Negative
A2010	204	45460	12	52	100	3R	Si-Yes	Dx Rh	12	1.5	Negativa / Negative
A2010	205	45461	14	52	100	3R	Si-Yes	Dx Rh	14	1.5	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2010	206	45462	16	62	110	3R	Si-Yes	Dx Rh	16	1.5	Negativa / Negative
A2010	207	45463	18	75	120	3R	Si-Yes	Dx Rh	18	1.5	Negativa / Negative
A2010	208	45464	20	75	120	3R	Si-Yes	Dx Rh	20	1.5	Negativa / Negative
A2010	301	45465	6	27	60	3R	Si-Yes	Sx Lh	6	1	Negativa / Negative
A2010	302	45466	8	32	80	3R	Si-Yes	Sx Lh	8	1	Negativa / Negative
A2010	303	45467	10	42	100	3R	Si-Yes	Sx Lh	10	1.5	Negativa / Negative
A2010	304	45468	12	52	100	3R	Si-Yes	Sx Lh	12	1.5	Negativa / Negative
A2010	305	45469	14	52	100	3R	Si-Yes	Sx Lh	14	1.5	Negativa / Negative
A2010	306	45470	16	62	110	3R	Si-Yes	Sx Lh	16	1.5	Negativa / Negative
A2010	307	45471	18	75	120	3R	Si-Yes	Sx Lh	18	1.5	Negativa / Negative
A2010	308	45472	20	75	120	3R	Si-Yes	Sx Lh	20	1.5	Negativa / Negative

WOOD



## A2007

Punte elicoidali in hw (hm integrale) z=2 con testa sferica per legno

*Hw (integral tungsten carbide) helical router bits spherical z=2 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	D2	ROT	S	R	GT
A2007	001	45327	3	12	40	2	0	Dx Rh	3	1.5	Positiva / Positive
A2007	002	45328	4	15	40	2	0	Dx Rh	4	2	Positiva / Positive
A2007	003	45329	5	17	50	2	0	Dx Rh	5	2.5	Positiva / Positive
A2007	004	36782	6	17	50	2	17	Dx Rh	6	3	Positiva / Positive
A2007	005	45331	6	27	60	2	0	Dx Rh	6	3	Positiva / Positive
A2007	006	45332	8	22	70	2	0	Dx Rh	8	4	Positiva / Positive
A2007	007	45333	8	32	80	2	0	Dx Rh	8	4	Positiva / Positive
A2007	008	45334	10	32	80	2	0	Dx Rh	10	5	Positiva / Positive
A2007	009	45335	10	42	100	2	0	Dx Rh	10	5	Positiva / Positive
A2007	010	45336	12	32	80	2	0	Dx Rh	12	6	Positiva / Positive
A2007	011	45337	12	42	100	2	0	Dx Rh	12	6	Positiva / Positive
A2007	012	45338	12	52	100	2	0	Dx Rh	12	6	Positiva / Positive
A2007	013	45339	14	42	100	2	0	Dx Rh	14	7	Positiva / Positive
A2007	014	45340	14	52	100	2	0	Dx Rh	14	7	Positiva / Positive
A2007	015	45341	16	42	100	2	0	Dx Rh	16	8	Positiva / Positive
A2007	016	45342	16	52	100	2	0	Dx Rh	16	8	Positiva / Positive
A2007	017	45343	16	62	110	2	0	Dx Rh	16	8	Positiva / Positive
A2007	018	45344	18	52	100	2	0	Dx Rh	18	9	Positiva / Positive
A2007	019	45345	18	75	120	2	0	Dx Rh	18	9	Positiva / Positive
A2007	020	45346	20	52	100	2	0	Dx Rh	20	10	Positiva / Positive
A2007	021	45347	20	75	120	2	0	Dx Rh	20	10	Positiva / Positive



ART	COD	DRW	D	B	LTT	Z	D2	ROT	S	R	GT
A2007	101	83992	3	12	40	2	0	Sx Lh	3	1.5	Positiva / Positive
A2007	102	45348	4	15	40	2	0	Sx Lh	4	2	Positiva / Positive
A2007	103	45349	5	17	50	2	0	Sx Lh	5	2.5	Positiva / Positive
A2007	104	45350	6	17	50	2	0	Sx Lh	6	3	Positiva / Positive
A2007	105	45351	6	27	60	2	0	Sx Lh	6	3	Positiva / Positive
A2007	106	45352	8	22	70	2	0	Sx Lh	8	4	Positiva / Positive
A2007	107	45353	8	32	80	2	0	Sx Lh	8	4	Positiva / Positive
A2007	108	45354	10	32	80	2	0	Sx Lh	10	5	Positiva / Positive
A2007	109	45355	10	42	100	2	0	Sx Lh	10	5	Positiva / Positive
A2007	110	45356	12	32	80	2	0	Sx Lh	12	6	Positiva / Positive
A2007	111	45357	12	42	100	2	0	Sx Lh	12	6	Positiva / Positive
A2007	112	45358	12	52	100	2	0	Sx Lh	12	6	Positiva / Positive
A2007	113	45359	14	42	100	2	0	Sx Lh	14	7	Positiva / Positive
A2007	114	45360	14	52	100	2	0	Sx Lh	14	7	Positiva / Positive
A2007	115	45361	16	42	100	2	0	Sx Lh	16	8	Positiva / Positive
A2007	116	45362	16	52	100	2	0	Sx Lh	16	8	Positiva / Positive
A2007	117	45363	16	62	110	2	0	Sx Lh	16	8	Positiva / Positive
A2007	118	45364	18	52	100	2	0	Sx Lh	18	9	Positiva / Positive
A2007	119	45365	18	75	120	2	0	Sx Lh	18	9	Positiva / Positive
A2007	120	45366	20	52	100	2	0	Sx Lh	20	10	Positiva / Positive
A2007	121	45367	20	75	120	2	0	Sx Lh	20	10	Positiva / Positive

WOOD



## A2011

Punte elicoidali in hw (hm integrale) z=3 con testa sferica per legno

*Hw (integral tungsten carbide) helical router bits z=3 spherical for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte sferiche con raggio, per finitura, Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2011	001	45473	3	12	40	3	Dx Rh	3	1.5	Positiva / Positive
A2011	002	45474	4	15	40	3	Dx Rh	4	2	Positiva / Positive
A2011	003	45475	5	17	50	3	Dx Rh	5	2.5	Positiva / Positive
A2011	004	45476	6	17	50	3	Dx Rh	6	3	Positiva / Positive
A2011	005	45477	6	27	60	3	Dx Rh	6	3	Positiva / Positive
A2011	006	45478	8	22	70	3	Dx Rh	8	4	Positiva / Positive
A2011	007	45479	8	32	80	3	Dx Rh	8	4	Positiva / Positive
A2011	008	45480	10	32	80	3	Dx Rh	10	5	Positiva / Positive
A2011	009	45481	10	42	100	3	Dx Rh	10	5	Positiva / Positive
A2011	010	45482	12	32	80	3	Dx Rh	12	6	Positiva / Positive
A2011	011	45483	12	42	100	3	Dx Rh	12	6	Positiva / Positive
A2011	012	45484	12	52	100	3	Dx Rh	12	6	Positiva / Positive
A2011	013	45485	14	42	100	3	Dx Rh	14	7	Positiva / Positive
A2011	014	45486	14	52	100	3	Dx Rh	14	7	Positiva / Positive
A2011	015	45487	16	42	100	3	Dx Rh	16	8	Positiva / Positive
A2011	016	45488	16	52	100	3	Dx Rh	16	8	Positiva / Positive
A2011	017	45489	16	62	110	3	Dx Rh	16	8	Positiva / Positive
A2011	018	45490	18	52	100	3	Dx Rh	18	9	Positiva / Positive
A2011	019	45491	18	75	120	3	Dx Rh	18	9	Positiva / Positive
A2011	020	45492	20	52	100	3	Dx Rh	20	10	Positiva / Positive
A2011	021	45493	20	75	120	3	Dx Rh	20	10	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2011	101	45494	3	12	40	3	Sx Lh	3	1.5	Positiva / Positive
A2011	102	45495	4	15	40	3	Sx Lh	4	2	Positiva / Positive
A2011	103	45496	5	17	50	3	Sx Lh	5	2.5	Positiva / Positive
A2011	104	45497	6	17	50	3	Sx Lh	6	3	Positiva / Positive
A2011	105	45498	6	27	60	3	Sx Lh	6	3	Positiva / Positive
A2011	106	45499	8	22	70	3	Sx Lh	8	4	Positiva / Positive
A2011	107	45500	8	32	80	3	Sx Lh	8	4	Positiva / Positive
A2011	108	45501	10	32	80	3	Sx Lh	10	5	Positiva / Positive
A2011	109	45502	10	42	100	3	Sx Lh	10	5	Positiva / Positive
A2011	110	45503	12	32	80	3	Sx Lh	12	6	Positiva / Positive
A2011	111	45504	12	42	100	3	Sx Lh	12	6	Positiva / Positive
A2011	112	45505	12	52	100	3	Sx Lh	12	6	Positiva / Positive
A2011	113	45506	14	42	100	3	Sx Lh	14	7	Positiva / Positive
A2011	114	45507	14	52	100	3	Sx Lh	14	7	Positiva / Positive
A2011	115	45508	16	42	100	3	Sx Lh	16	8	Positiva / Positive
A2011	116	45509	16	52	100	3	Sx Lh	16	8	Positiva / Positive
A2011	117	45510	16	62	110	3	Sx Lh	16	8	Positiva / Positive
A2011	118	45511	18	52	100	3	Sx Lh	18	9	Positiva / Positive
A2011	119	45512	18	75	120	3	Sx Lh	18	9	Positiva / Positive
A2011	120	45513	20	52	100	3	Sx Lh	20	10	Positiva / Positive
A2011	121	45514	20	75	120	3	Sx Lh	20	10	Positiva / Positive

WOOD



## A2013

Punte elicoidali in hw (hm integrale) z=3  
coniche per legno

*Hw (integral tungsten carbide) helical router bits  
z=3 conical for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft  
wood*

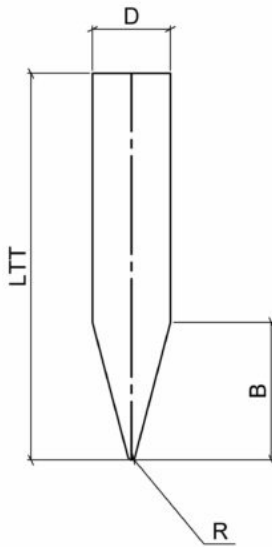
### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte coniche , per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Conical router bits, Finishing operation. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2013	001	45557	6	16	80	3	Dx Rh	6	1	Positiva / Positive
A2013	002	45558	8	22	80	3	Dx Rh	8	1	Positiva / Positive
A2013	003	45559	8	32	90	3	Dx Rh	8	1	Positiva / Positive
A2013	004	45560	8	42	100	3	Dx Rh	8	1	Positiva / Positive
A2013	005	45561	10	52	100	3	Dx Rh	10	1	Positiva / Positive
A2013	006	45562	10	62	120	3	Dx Rh	10	1	Positiva / Positive
A2013	007	45563	11	52	100	3	Dx Rh	11	1	Positiva / Positive
A2013	008	45564	11	62	120	3	Dx Rh	11	1	Positiva / Positive
A2013	009	45565	12	52	100	3	Dx Rh	12	1	Positiva / Positive
A2013	010	45566	12	62	120	3	Dx Rh	12	1	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2013	011	45567	16	52	100	3	Dx Rh	16	1	Positiva / Positive
A2013	012	45568	16	72	150	3	Dx Rh	16	1	Positiva / Positive
A2013	013	45569	20	52	100	3	Dx Rh	20	1	Positiva / Positive
A2013	014	45570	20	72	150	3	Dx Rh	20	1	Positiva / Positive

WOOD



## A0428

Punte elicoidali in hw (hm integrale) z=3 con rompitruciolo per sgrossatura per legno  
*Hw (integral tungsten carbide) helical router bits z=3 with chipbreaker*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

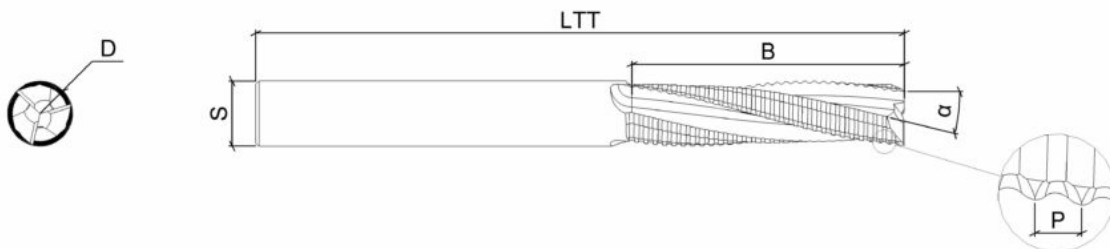
### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI SGROSSATURA su legni teneri, duri, M.D.F., truciolari e multistrati. ELICA POSITIVA: espulsione del truciolo verso l'alto, ottima finitura del lato inferiore del pannello, adatta anche per esecuzioni di asole non passanti. ELICA Negativa: espulsione del truciolo verso il basso, ottima finitura del lato superiore del pannello. Velocità di avanzamento: 2 -16 m/min di 18 000 - 24 000 giri/min

*FOR ROUGHING OPERATIONS on soft and hard wood, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for all working where drilling is most important. POSITIVE helix: expulsion of the chip upward, excellent finishing of lower side of panel, also suitable for blind buttonhole execution NEGATIVE helix: expulsion of the chip downward, excellent finishing of upper side of panel. Feed rate: 2 - 16 m/min of 18 000 - 24 000 RPM*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A0428	001	28158	8	22	63	3R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A0428	002	28159	8	32	80	3R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A0428	003	28160	10	32	80	3R	Si-Yes	Dx Rh	10	2	Positiva / Positive
A0428	004	28161	10	42	100	3R	Si-Yes	Dx Rh	10	2	Positiva / Positive
A0428	005	28162	12	32	80	3R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A0428	006	28163	12	42	100	3R	Si-Yes	Dx Rh	12	2	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A0428	007	28164	12	52	100	3R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A0428	008	28165	14	42	100	3R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A0428	009	28166	14	52	100	3R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A0428	010	28167	16	42	100	3R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A0428	011	28168	16	52	100	3R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A0428	012	28169	16	62	110	3R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A0428	013	28170	18	52	100	3R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A0428	014	28171	18	75	125	3R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A0428	015	28172	20	52	100	3R	Si-Yes	Dx Rh	20	2	Positiva / Positive
A0428	016	28173	20	75	130	3R	Si-Yes	Dx Rh	20	2	Positiva / Positive
A0428	101	28789	8	22	70	3R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive
A0428	102	28790	8	32	80	3R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive
A0428	103	28791	10	32	80	3R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A0428	104	28792	10	42	100	3R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A0428	105	28793	12	32	80	3R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A0428	106	28794	12	42	100	3R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A0428	107	28795	12	52	100	3R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A0428	108	28796	14	42	100	3R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A0428	109	28797	14	52	100	3R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A0428	110	28798	16	42	100	3R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A0428	111	28799	16	52	100	3R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A0428	112	28800	16	62	110	3R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A0428	113	28801	18	52	100	3R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A0428	114	28802	18	75	120	3R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A0428	115	28803	20	52	100	3R	Si-Yes	Sx Lh	20	2	Positiva / Positive
A0428	116	28804	20	72	120	3R	Si-Yes	Sx Lh	20	2	Positiva / Positive
A0428	201	28716	8	22	70	3R	Si-Yes	Dx Rh	8	1.5	Negativa / Negative
A0428	202	28717	8	32	80	3R	Si-Yes	Dx Rh	8	1.5	Negativa / Negative
A0428	203	28718	10	32	80	3R	Si-Yes	Dx Rh	10	2	Negativa / Negative
A0428	204	28719	10	42	100	3R	Si-Yes	Dx Rh	10	2	Negativa / Negative
A0428	205	28720	12	32	80	3R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A0428	206	28721	12	42	100	3R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A0428	207	28722	12	52	100	3R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A0428	208	28723	14	42	100	3R	Si-Yes	Dx Rh	14	2	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A0428	209	28724	14	52	100	3R	Si-Yes	Dx Rh	14	2	Negativa / Negative
A0428	210	28725	16	42	100	3R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A0428	211	28726	16	52	120	3R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A0428	212	28727	16	62	110	3R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A0428	213	28728	18	52	100	3R	Si-Yes	Dx Rh	18	2	Negativa / Negative
A0428	214	28729	18	75	120	3R	Si-Yes	Dx Rh	18	2	Negativa / Negative
A0428	215	28730	20	52	120	3R	Si-Yes	Dx Rh	20	2	Negativa / Negative
A0428	216	28731	20	72	130	3R	Si-Yes	Dx Rh	20	2	Negativa / Negative
A0428	301	28862	8	22	70	3R	Si-Yes	Sx Lh	8	1.5	Negativa / Negative
A0428	302	28863	8	32	80	3R	Si-Yes	Sx Lh	8	1.5	Negativa / Negative
A0428	303	28864	10	32	80	3R	Si-Yes	Sx Lh	10	2	Negativa / Negative
A0428	304	28865	10	42	100	3R	Si-Yes	Sx Lh	10	2	Negativa / Negative
A0428	305	28866	12	32	80	3R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A0428	306	28867	12	42	100	3R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A0428	307	28868	12	52	100	3R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A0428	308	28869	14	42	100	3R	Si-Yes	Sx Lh	14	2	Negativa / Negative
A0428	309	28870	14	52	100	3R	Si-Yes	Sx Lh	14	2	Negativa / Negative
A0428	310	28871	16	42	100	3R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A0428	311	28872	16	52	100	3R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A0428	312	28873	16	62	110	3R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A0428	313	28874	18	52	100	3R	Si-Yes	Sx Lh	18	2	Negativa / Negative
A0428	314	28875	18	75	120	3R	Si-Yes	Sx Lh	18	2	Negativa / Negative
A0428	315	28876	20	52	100	3R	Si-Yes	Sx Lh	20	2	Negativa / Negative
A0428	316	28877	20	72	120	3R	Si-Yes	Sx Lh	20	2	Negativa / Negative





## A0438

Punte elicoidali in hss con rompitruciolo per lavorazione travi in legno su centri di lavoro cnc  
*Hss router tool for processing wooden beams with cheapbreaker on cnc working centers*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte per lavorazioni di sgrossatura su legni teneri, duri. Realizzate in Hs (Hss), indicate per eseguire lavorazioni di foratura e contornatura a notevole velocità di avanzamento.

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	GT
A0438	001	52472	40	160	235	3	Si-Yes	Dx Rh	29.5	Positiva / Positive
A0438	002	52473	40	195	270	3	Si-Yes	Dx Rh	29.5	Positiva / Positive
A0438	003	98443	50	210	282	3	Si-Yes	Dx Rh	29.5	Positiva / Positive

WOOD



## A2015

Punte elicoidali in hw (hm integrale) z=4 con rompitruciolo per sgrossatura per legno

*Hw (integral tungsten carbide) helical router bits z=4 with chipbreaker for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI SGROSSATURA su legni teneri, duri, M.D.F., truciolari e multistrati. ELICA POSITIVA: espulsione del truciolo verso l'alto, ottima finitura del lato inferiore del pannello, adatta anche per esecuzioni di asole non passanti. ELICA Negativa: espulsione del truciolo verso il basso, ottima finitura del lato superiore del pannello. Velocità di avanzamento: 2 -16 m/min di 18 000 - 24 000 giri/min

*FOR ROUGHING OPERATIONS on soft and hard wood, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for all working where drilling is most important. POSITIVE helix: expulsion of the chip upward, excellent finishing of lower side of panel, also suitable for blind buttonhole execution NEGATIVE helix: expulsion of the chip downward, excellent finishing of upper side of panel. Feed rate: 2 - 16 m/min of 18 000 - 24 000 RPM*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2015	001	45635	8	22	70	4R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A2015	002	45636	8	32	80	4R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A2015	003	45637	10	32	80	4R	Si-Yes	Dx Rh	10	2	Positiva / Positive
A2015	004	45638	10	42	100	4R	Si-Yes	Dx Rh	10	2	Positiva / Positive
A2015	005	45639	12	32	80	4R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2015	006	45640	12	42	100	4R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2015	007	45641	12	52	100	4R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2015	008	45642	14	42	100	4R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A2015	009	45643	14	52	100	4R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A2015	010	45644	16	42	100	4R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2015	011	45645	16	52	100	4R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2015	012	45646	16	62	110	4R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2015	013	45647	18	52	100	4R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A2015	014	45648	18	75	120	4R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A2015	015	45649	20	52	100	4R	Si-Yes	Dx Rh	20	2	Positiva / Positive
A2015	016	45650	20	75	120	4R	Si-Yes	Dx Rh	20	2	Positiva / Positive
A2015	101	45651	8	22	70	4R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2015	102	45652	8	32	80	4R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive
A2015	103	45653	10	32	80	4R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A2015	104	45654	10	42	100	4R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A2015	105	45655	12	32	80	4R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2015	106	45656	12	42	100	4R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2015	107	45657	12	52	100	4R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2015	108	45658	14	42	100	4R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A2015	109	45659	14	52	100	4R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A2015	110	45660	16	42	100	4R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2015	111	45661	16	52	100	4R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2015	112	45662	16	62	110	4R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2015	113	45663	18	52	100	4R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A2015	114	45664	18	75	120	4R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A2015	115	45665	20	52	100	4R	Si-Yes	Sx Lh	20	2	Positiva / Positive
A2015	116	45666	20	75	120	4R	Si-Yes	Sx Lh	20	2	Positiva / Positive
A2015	201	45667	8	22	70	4R	Si-Yes	Dx Rh	8	1.5	Negativa / Negative
A2015	202	45668	8	32	80	4R	Si-Yes	Dx Rh	8	1.5	Negativa / Negative
A2015	203	45669	10	32	80	4R	Si-Yes	Dx Rh	10	2	Negativa / Negative
A2015	204	45670	10	42	100	4R	Si-Yes	Dx Rh	10	2	Negativa / Negative
A2015	205	45671	12	32	80	4R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A2015	206	45672	12	42	100	4R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A2015	207	45673	12	52	100	4R	Si-Yes	Dx Rh	12	2	Negativa / Negative
A2015	208	45674	14	42	100	4R	Si-Yes	Dx Rh	14	2	Negativa / Negative
A2015	209	45675	14	52	100	4R	Si-Yes	Dx Rh	14	2	Negativa / Negative
A2015	210	45676	16	42	100	4R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A2015	211	45677	16	52	100	4R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A2015	212	45678	16	62	110	4R	Si-Yes	Dx Rh	16	2	Negativa / Negative
A2015	213	45679	18	52	100	4R	Si-Yes	Dx Rh	18	2	Negativa / Negative
A2015	214	45680	18	75	120	4R	Si-Yes	Dx Rh	18	2	Negativa / Negative
A2015	215	45681	20	52	100	4R	Si-Yes	Dx Rh	20	2	Negativa / Negative
A2015	216	45682	20	75	120	4R	Si-Yes	Dx Rh	20	2	Negativa / Negative
A2015	301	45683	8	22	70	4R	Si-Yes	Sx Lh	8	1.5	Negativa / Negative
A2015	302	45684	8	32	80	4R	Si-Yes	Sx Lh	8	1.5	Negativa / Negative
A2015	303	45685	10	32	80	4R	Si-Yes	Sx Lh	10	2	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2015	304	45686	10	42	100	4R	Si-Yes	Sx Lh	10	2	Negativa / Negative
A2015	305	45687	12	32	80	4R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A2015	306	45688	12	42	100	4R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A2015	307	45689	12	52	100	4R	Si-Yes	Sx Lh	12	2	Negativa / Negative
A2015	308	45690	14	42	100	4R	Si-Yes	Sx Lh	14	2	Negativa / Negative
A2015	309	45691	14	52	100	4R	Si-Yes	Sx Lh	14	2	Negativa / Negative
A2015	310	45692	16	42	100	4R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A2015	311	45693	16	52	100	4R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A2015	312	45694	16	62	110	4R	Si-Yes	Sx Lh	16	2	Negativa / Negative
A2015	313	45695	18	52	100	4R	Si-Yes	Sx Lh	18	2	Negativa / Negative
A2015	314	45696	18	75	120	4R	Si-Yes	Sx Lh	18	2	Negativa / Negative
A2015	315	45697	20	52	100	4R	Si-Yes	Sx Lh	20	2	Negativa / Negative
A2015	316	45698	20	75	120	4R	Si-Yes	Sx Lh	20	2	Negativa / Negative

WOOD



## A2009

Punte elicoidali in hw (hm integrale) z=3 con rompitruciolo a finire per legno

*Hw (integral tungsten carbide) helical router bits z=3 with chipbreaker for finishing*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2009	001	45409	6	27	60	3R	Si-Yes	Dx Rh	6	3	Positiva / Positive
A2009	002	45410	8	32	80	3R	Si-Yes	Dx Rh	8	3	Positiva / Positive
A2009	003	45411	10	42	100	3R	Si-Yes	Dx Rh	10	3	Positiva / Positive
A2009	004	45412	12	52	100	3R	Si-Yes	Dx Rh	12	3	Positiva / Positive
A2009	005	45413	14	52	100	3R	Si-Yes	Dx Rh	14	3	Positiva / Positive
A2009	006	45414	16	62	110	3R	Si-Yes	Dx Rh	16	3	Positiva / Positive
A2009	007	45415	18	75	120	3R	Si-Yes	Dx Rh	18	3	Positiva / Positive
A2009	008	45416	20	75	120	3R	Si-Yes	Dx Rh	20	3	Positiva / Positive
A2009	101	45417	6	27	60	3R	Si-Yes	Sx Lh	6	3	Positiva / Positive
A2009	102	45418	8	32	80	3R	Si-Yes	Sx Lh	8	3	Positiva / Positive
A2009	103	45419	10	42	100	3R	Si-Yes	Sx Lh	10	3	Positiva / Positive
A2009	104	45420	12	52	100	3R	Si-Yes	Sx Lh	12	3	Positiva / Positive
A2009	105	45421	14	52	100	3R	Si-Yes	Sx Lh	14	3	Positiva / Positive
A2009	106	45422	16	62	110	3R	Si-Yes	Sx Lh	16	3	Positiva / Positive
A2009	107	45423	18	75	120	3R	Si-Yes	Sx Lh	18	3	Positiva / Positive
A2009	108	45424	20	75	120	3R	Si-Yes	Sx Lh	20	3	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2009	201	45425	6	27	60	3R	Si-Yes	Dx Rh	6	3	Negativa / Negative
A2009	202	45426	8	32	80	3R	Si-Yes	Dx Rh	8	3	Negativa / Negative
A2009	203	45427	10	42	100	3R	Si-Yes	Dx Rh	10	3	Negativa / Negative
A2009	204	45428	12	52	100	3R	Si-Yes	Dx Rh	12	3	Negativa / Negative
A2009	205	45429	14	52	100	3R	Si-Yes	Dx Rh	14	3	Negativa / Negative
A2009	206	45430	16	62	110	3R	Si-Yes	Dx Rh	16	3	Negativa / Negative
A2009	207	45431	18	75	120	3R	Si-Yes	Dx Rh	18	3	Negativa / Negative
A2009	208	45432	20	75	120	3R	Si-Yes	Dx Rh	20	3	Negativa / Negative
A2009	301	45433	6	27	60	3R	Si-Yes	Sx Lh	6	3	Negativa / Negative
A2009	302	45434	8	32	80	3R	Si-Yes	Sx Lh	8	3	Negativa / Negative
A2009	303	45435	10	42	100	3R	Si-Yes	Sx Lh	10	3	Negativa / Negative
A2009	304	45436	12	52	100	3R	Si-Yes	Sx Lh	12	3	Negativa / Negative
A2009	305	45437	14	52	100	3R	Si-Yes	Sx Lh	14	3	Negativa / Negative
A2009	306	45438	16	62	110	3R	Si-Yes	Sx Lh	16	3	Negativa / Negative
A2009	307	45439	18	75	120	3R	Si-Yes	Sx Lh	18	3	Negativa / Negative
A2009	308	45440	20	75	120	3R	Si-Yes	Sx Lh	20	3	Negativa / Negative

WOOD



## A2016

Punte elicoidali in hw (hm integrale) z=2+2 lisce rompitruciolo a semifinire per legno

*Hw (integral tungsten carbide) helical router bits z=2+2 finish with chipbreaker. semi-finishing operation for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI SEMIFINITURA legni teneri, duri, M.D.F., truciolari e multistrati. Adatta anche per lavorazioni di materie plastiche. ELICA POSITIVA: espulsione del truciolo verso l'alto, ottima finitura del lato inferiore del pannello, adatta anche per esecuzioni di asole non passanti. ELICA Negativa: espulsione del truciolo verso il basso, ottima finitura del lato superiore del pannello. Velocità di avanzamento: 2 -16 m/min di 18 000 - 24 000 giri/min

*FOR SEMIFINISHING OPERATIONS on soft and hard wood, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for all working where drilling is most important. Suitable for execution on plastic materials. POSITIVE helix: expulsion of the chip upward, excellent finishing of lower side of panel, also suitable for blind buttonhole execution NEGATIVE helix: expulsion of the chip downward, excellent finishing of upper side of panel. Feed rate: 2 - 16 m/min of 18 000 - 24 000 RPM*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2016	001	45699	8	22	70	2+2R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A2016	002	45700	8	32	80	2+2R	Si-Yes	Dx Rh	8	1.5	Positiva / Positive
A2016	003	45701	10	32	80	2+2R	Si-Yes	Dx Rh	10	2	Positiva / Positive
A2016	004	45702	10	42	100	2+2R	Si-Yes	Dx Rh	10	2	Positiva / Positive
A2016	005	45703	12	32	80	2+2R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2016	006	45704	12	42	100	2+2R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2016	007	45705	12	52	100	2+2R	Si-Yes	Dx Rh	12	2	Positiva / Positive
A2016	008	45706	14	42	100	2+2R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A2016	009	45707	14	52	100	2+2R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A2016	010	45708	16	42	100	2+2R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2016	011	45709	16	52	100	2+2R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2016	012	45710	16	62	110	2+2R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2016	013	45711	18	52	100	2+2R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A2016	014	45712	18	75	120	2+2R	Si-Yes	Dx Rh	18	2	Positiva / Positive
A2016	015	45713	20	52	100	2+2R	Si-Yes	Dx Rh	20	2	Positiva / Positive
A2016	016	45714	20	75	120	2+2R	Si-Yes	Dx Rh	20	2	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2016	101	45715	8	22	70	2+2R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive
A2016	102	45716	8	32	80	2+2R	Si-Yes	Sx Lh	8	1.5	Positiva / Positive
A2016	103	45717	10	32	80	2+2R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A2016	104	45718	10	42	100	2+2R	Si-Yes	Sx Lh	10	2	Positiva / Positive
A2016	105	45719	12	32	80	2+2R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2016	106	45720	12	42	100	2+2R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2016	107	45721	12	52	100	2+2R	Si-Yes	Sx Lh	12	2	Positiva / Positive
A2016	108	45722	14	42	100	2+2R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A2016	109	45723	14	52	100	2+2R	Si-Yes	Sx Lh	14	2	Positiva / Positive
A2016	110	45724	16	42	100	2+2R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2016	111	45725	16	52	100	2+2R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2016	112	45726	16	62	110	2+2R	Si-Yes	Sx Lh	16	2	Positiva / Positive
A2016	113	45727	18	52	100	2+2R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A2016	114	45728	18	75	120	2+2R	Si-Yes	Sx Lh	18	2	Positiva / Positive
A2016	115	45729	20	52	100	2+2R	Si-Yes	Sx Lh	20	2	Positiva / Positive
A2016	116	45730	20	75	120	2+2R	Si-Yes	Sx Lh	20	2	Positiva / Positive



WOOD



## A0430

Punte elicoidali in hw (hm integrale) z=1+1 e z=2+2 con elica positiva e negativa per legno.  
*Hw (integral tungsten carbide) helical router bits with pos. and neg. helix z=1+1 and z=2+2*

**MATERIALE LAVORATO /  
 MATERIALS**  
 mdf, truciolare  
 chipboard, mdf

**IMPIEGO / FUNCTION**  
 centro lavoro cnc  
 cnc router

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI FINITURA su pannelli, M.D.F., truciolare, nobilitati, impiallacciati Esecuzione in HW(Hm integrale). Principalmente indicata per eseguire lavorazioni di contornatura ad elevata .Finitura.Velocità di avanzamento: 2 -12 m/min di 18 000 - 24 000 giri/min

*FOR FINISHING OPERATIONS on panels, M.D.F., chipboard, plywood HW(integral tungsten carbide) execution. Especially recommended for edging execution with an excellent surface quality at high advancing speed and an excellent finishing of panel on both sides. Finishing. Feed rate: 2 - 12 m/min of 18 000 - 24 000 RPM*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0430	001	28174	6	17	60	1+1	Dx Rh	6	Positiva Negativa / Positive Negative
A0430	002	28175	6	27	60	1+1	Dx Rh	6	Positiva Negativa / Positive Negative
A0430	003	28176	8	22	80	1+1	Dx Rh	8	Positiva Negativa / Positive Negative
A0430	004	28177	8	32	80	1+1	Dx Rh	8	Positiva Negativa / Positive Negative
A0430	005	28178	10	32	80	1+1	Dx Rh	10	Positiva Negativa / Positive Negative
A0430	006	28179	10	42	100	1+1	Dx Rh	10	Positiva Negativa / Positive Negative
A0430	007	28180	12	42	100	1+1	Dx Rh	12	Positiva Negativa / Positive Negative
A0430	008	28181	12	52	100	1+1	Dx Rh	12	Positiva Negativa / Positive Negative
A0430	009	28182	16	52	100	1+1	Dx Rh	16	Positiva Negativa / Positive Negative
A0430	010	28183	8	22	80	2+2	Dx Rh	8	Positiva Negativa / Positive Negative
A0430	011	28184	8	32	80	2+2	Dx Rh	8	Positiva Negativa / Positive Negative
A0430	012	28185	10	32	80	2+2	Dx Rh	10	Positiva Negativa / Positive Negative
A0430	013	28186	10	42	100	2+2	Dx Rh	10	Positiva Negativa / Positive Negative

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0430	014	28187	12	42	100	2+2	Dx Rh	12	Positiva Negativa / Positive Negative
A0430	015	28188	12	52	100	2+2	Dx Rh	12	Positiva Negativa / Positive Negative
A0430	016	28189	14	42	100	2+2	Dx Rh	14	Positiva Negativa / Positive Negative
A0430	017	28190	14	52	100	2+2	Dx Rh	14	Positiva Negativa / Positive Negative
A0430	018	28191	16	42	100	2+2	Dx Rh	16	Positiva Negativa / Positive Negative
A0430	019	28192	16	52	100	2+2	Dx Rh	16	Positiva Negativa / Positive Negative
A0430	020	28193	16	72	120	2+2	Dx Rh	16	Positiva Negativa / Positive Negative
A0430	021	28194	18	52	100	2+2	Dx Rh	18	Positiva Negativa / Positive Negative
A0430	022	28195	18	72	120	2+2	Dx Rh	18	Positiva Negativa / Positive Negative
A0430	023	28196	18	102	150	2+2	Dx Rh	18	Positiva Negativa / Positive Negative
A0430	024	28197	20	52	100	2+2	Dx Rh	20	Positiva Negativa / Positive Negative
A0430	025	28198	20	72	120	2+2	Dx Rh	20	Positiva Negativa / Positive Negative
A0430	101	28908	6	17	60	1+1	Sx Lh	6	Positiva Negativa / Positive Negative
A0430	102	28907	6	27	60	1+1	Sx Lh	6	Positiva Negativa / Positive Negative
A0430	103	28906	8	22	80	1+1	Sx Lh	8	Positiva Negativa / Positive Negative
A0430	104	28905	8	32	80	1+1	Sx Lh	8	Positiva Negativa / Positive Negative
A0430	105	28904	10	32	80	1+1	Sx Lh	10	Positiva Negativa / Positive Negative
A0430	106	28903	10	42	100	1+1	Sx Lh	10	Positiva Negativa / Positive Negative
A0430	107	28902	12	42	100	1+1	Sx Lh	12	Positiva Negativa / Positive Negative
A0430	108	28901	12	52	100	1+1	Sx Lh	12	Positiva Negativa / Positive Negative
A0430	109	28900	16	52	100	1+1	Sx Lh	16	Positiva Negativa / Positive Negative
A0430	110	28899	8	22	80	2+2	Sx Lh	8	Positiva Negativa / Positive Negative
A0430	111	28898	8	32	80	2+2	Sx Lh	8	Positiva Negativa / Positive Negative

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A0430	112	28897	10	32	100	2+2	Sx Lh	10	Positiva Negativa / Positive Negative
A0430	113	28896	10	42	100	2+2	Sx Lh	10	Positiva Negativa / Positive Negative
A0430	114	28895	12	42	100	2+2	Sx Lh	12	Positiva Negativa / Positive Negative
A0430	115	28894	12	52	100	2+2	Sx Lh	12	Positiva Negativa / Positive Negative
A0430	116	28893	14	42	100	2+2	Sx Lh	14	Positiva Negativa / Positive Negative
A0430	117	28892	14	52	110	2+2	Sx Lh	14	Positiva Negativa / Positive Negative
A0430	118	28891	16	42	100	2+2	Sx Lh	16	Positiva Negativa / Positive Negative
A0430	119	28890	16	52	100	2+2	Sx Lh	16	Positiva Negativa / Positive Negative
A0430	120	28889	16	72	120	2+2	Sx Lh	16	Positiva Negativa / Positive Negative
A0430	121	28888	15	52	100	2+2	Sx Lh	15	Positiva Negativa / Positive Negative
A0430	122	28887	18	72	120	2+2	Sx Lh	18	Positiva Negativa / Positive Negative
A0430	123	28886	18	102	150	2+2	Sx Lh	18	Positiva Negativa / Positive Negative
A0430	124	28885	20	52	100	2+2	Sx Lh	20	Positiva Negativa / Positive Negative
A0430	125	28884	20	72	120	2+2	Sx Lh	20	Positiva Negativa / Positive Negative



## IMMAGINE NON DIPONIBILE

# A2017

Punte elicoidali in hw (hm integrale) z=3+3 con elica positiva e negativa per legno

*Hw (integral tungsten carbide) helical router bits with pos. and neg. helix z=3+3*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI FINITURA su pannelli, M.D.F., truciolare, nobilitati, impiallacciati Esecuzione in HW(Hm integrale). Principalmente indicata per eseguire lavorazioni di contornatura ad elevata .Finitura.Velocità di avanzamento: 10-25 m/min di 18 000 - 24 000 giri/min

*FOR FINISHING OPERATIONS on panels, M.D.F., chipboard, plywood HW(integral tungsten carbide) execution. Especially recommended for edging execution with an excellent surface quality at high advancing speed and an excellent finishing of panel on both sides. Finishing. Feed rate: 10-25 m/min of 18 000 - 24 000 RPM*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2017	001	45731	8	22	70	3+3	Dx Rh	8	Positiva Negativa / Positive Negative
A2017	002	45732	8	32	80	3+3	Dx Rh	8	Positiva Negativa / Positive Negative
A2017	003	45733	10	32	80	3+3	Dx Rh	10	Positiva Negativa / Positive Negative
A2017	004	45734	10	42	100	3+3	Dx Rh	10	Positiva Negativa / Positive Negative
A2017	005	45735	12	32	80	3+3	Dx Rh	12	Positiva Negativa / Positive Negative
A2017	006	45736	12	42	100	3+3	Dx Rh	12	Positiva Negativa / Positive Negative
A2017	007	45737	12	52	100	3+3	Dx Rh	12	Positiva Negativa / Positive Negative
A2017	008	45738	14	42	100	3+3	Dx Rh	14	Positiva Negativa / Positive Negative
A2017	009	45739	14	52	100	3+3	Dx Rh	14	Positiva Negativa / Positive Negative
A2017	010	45740	16	42	100	3+3	Dx Rh	16	Positiva Negativa / Positive Negative
A2017	011	45741	16	52	100	3+3	Dx Rh	16	Positiva Negativa / Positive Negative
A2017	012	45742	16	62	110	3+3	Dx Rh	16	Positiva Negativa / Positive Negative
A2017	013	45743	18	52	100	3+3	Dx Rh	18	Positiva Negativa / Positive Negative

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2017	014	45744	18	75	120	3+3	Dx Rh	18	Positiva Negativa / Positive Negative
A2017	015	45745	20	52	100	3+3	Dx Rh	20	Positiva Negativa / Positive Negative
A2017	016	45746	20	75	120	3+3	Dx Rh	20	Positiva Negativa / Positive Negative
A2017	101	45747	8	22	70	3+3	Sx Lh	8	Positiva Negativa / Positive Negative
A2017	102	45748	8	32	80	3+3	Sx Lh	8	Positiva Negativa / Positive Negative
A2017	103	45749	10	32	80	3+3	Sx Lh	10	Positiva Negativa / Positive Negative
A2017	104	45750	10	42	100	3+3	Sx Lh	10	Positiva Negativa / Positive Negative
A2017	105	45751	12	32	80	3+3	Sx Lh	12	Positiva Negativa / Positive Negative
A2017	106	45752	12	42	100	3+3	Sx Lh	12	Positiva Negativa / Positive Negative
A2017	107	45753	12	52	100	3+3	Sx Lh	12	Positiva Negativa / Positive Negative
A2017	108	45754	14	42	100	3+3	Sx Lh	14	Positiva Negativa / Positive Negative
A2017	109	45755	14	52	100	3+3	Sx Lh	14	Positiva Negativa / Positive Negative
A2017	110	45756	16	42	100	3+3	Sx Lh	16	Positiva Negativa / Positive Negative
A2017	111	45757	16	52	100	3+3	Sx Lh	16	Positiva Negativa / Positive Negative
A2017	112	45758	16	62	110	3+3	Sx Lh	16	Positiva Negativa / Positive Negative
A2017	113	45759	18	52	100	3+3	Sx Lh	18	Positiva Negativa / Positive Negative
A2017	114	45760	18	75	120	3+3	Sx Lh	18	Positiva Negativa / Positive Negative
A2017	115	45761	20	52	100	3+3	Sx Lh	20	Positiva Negativa / Positive Negative
A2017	116	45762	20	75	120	3+3	Sx Lh	20	Positiva Negativa / Positive Negative

# A2166

Punte elicoidali in hss per lavorazione travi in legno su centri di lavoro cnc

*Hss router tool for processing wooden beams on cnc working centers*

## IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

## DESCRIZIONE / DESCRIPTION

Punte per lavorazioni di sgrossatura su legni teneri, duri. Realizzate in Hs (Hss), indicate per eseguire lavorazioni di foratura e contornatura a notevole velocità di avanzamento.

## DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2166	001	100180	40	160	235	3	Dx Rh	29.5	Positiva / Positive
A2166	002	100181	40	195	270	3	Dx Rh	29.5	Positiva / Positive
A2166	003	100182	50	210	282	3	Dx Rh	29.5	Positiva / Positive

WOOD



## A2012

Punte elicoidali in hw (hm integrale) z=3 con testa torica per legno

*Hw (integral tungsten carbide) helical router bits z=3 toroidal for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte toroidali, Per finitura, Velocità di avanzamento: 2 - 8 m/min di 18 000 - 24 000 giri/min

*Toroidal router bits, Finishing operation. Feed rate: 2 - 10 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2012	001	45515	3	12	40	3	Dx Rh	3	0.5	Positiva / Positive
A2012	002	45516	4	15	40	3	Dx Rh	4	1	Positiva / Positive
A2012	003	45517	5	17	50	3	Dx Rh	5	1	Positiva / Positive
A2012	004	45518	6	17	50	3	Dx Rh	6	1	Positiva / Positive
A2012	005	45519	6	27	60	3	Dx Rh	6	1	Positiva / Positive
A2012	006	45520	8	22	70	3	Dx Rh	8	2	Positiva / Positive
A2012	007	45521	8	32	80	3	Dx Rh	8	2	Positiva / Positive
A2012	008	45522	10	32	80	3	Dx Rh	10	2	Positiva / Positive
A2012	009	45523	10	42	100	3	Dx Rh	10	2	Positiva / Positive
A2012	010	45524	12	32	80	3	Dx Rh	12	2	Positiva / Positive
A2012	011	45525	12	42	100	3	Dx Rh	12	2	Positiva / Positive
A2012	012	45526	12	52	100	3	Dx Rh	12	2	Positiva / Positive
A2012	013	45527	14	42	100	3	Dx Rh	14	3	Positiva / Positive
A2012	014	45528	14	52	100	3	Dx Rh	14	3	Positiva / Positive
A2012	015	45529	16	42	100	3	Dx Rh	16	3	Positiva / Positive
A2012	016	45530	16	52	100	3	Dx Rh	16	3	Positiva / Positive
A2012	017	45531	16	62	110	3	Dx Rh	16	3	Positiva / Positive
A2012	018	45532	18	52	100	3	Dx Rh	18	3	Positiva / Positive
A2012	019	45533	18	75	120	3	Dx Rh	18	3	Positiva / Positive
A2012	020	45534	20	52	100	3	Dx Rh	20	4	Positiva / Positive
A2012	021	45535	20	75	120	3	Dx Rh	20	4	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	R	GT
A2012	101	45536	3	12	40	3	Sx Lh	3	0.5	Positiva / Positive
A2012	102	45537	4	15	40	3	Sx Lh	4	1	Positiva / Positive
A2012	103	45538	5	17	50	3	Sx Lh	5	1	Positiva / Positive
A2012	104	45539	6	17	50	3	Sx Lh	6	1	Positiva / Positive
A2012	105	45540	6	27	60	3	Sx Lh	6	1	Positiva / Positive
A2012	106	45541	8	22	70	3	Sx Lh	8	2	Positiva / Positive
A2012	107	45542	8	32	80	3	Sx Lh	8	2	Positiva / Positive
A2012	108	45543	10	32	80	3	Sx Lh	10	2	Positiva / Positive
A2012	109	45544	10	42	100	3	Sx Lh	10	2	Positiva / Positive
A2012	110	45545	12	32	80	3	Sx Lh	12	2	Positiva / Positive
A2012	111	45546	12	42	100	3	Sx Lh	12	2	Positiva / Positive
A2012	112	45547	12	52	100	3	Sx Lh	12	2	Positiva / Positive
A2012	113	45548	14	42	100	3	Sx Lh	14	3	Positiva / Positive
A2012	114	45549	14	52	100	3	Sx Lh	14	3	Positiva / Positive
A2012	115	45550	16	42	100	3	Sx Lh	16	3	Positiva / Positive
A2012	116	45551	16	52	100	3	Sx Lh	16	3	Positiva / Positive
A2012	117	45552	16	62	110	3	Sx Lh	16	3	Positiva / Positive
A2012	118	45553	18	52	100	3	Sx Lh	18	3	Positiva / Positive
A2012	119	45554	18	75	120	3	Sx Lh	18	3	Positiva / Positive
A2012	120	45555	20	52	100	3	Sx Lh	20	4	Positiva / Positive
A2012	121	45556	20	75	120	3	Sx Lh	20	4	Positiva / Positive



WOOD



## A0435

Punte elicoidali in hw (hm integrale) per cave serrature

*Hw (integral tungsten carbide) helical router bits for locks*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Indicata per eseguire cave per sedi serrature per porte eD asole non passanti profonde in genere. Si raccomanda di utilizzare questa fresa con movimenti obliqui rispetto al pezzo da lavorare.

*Suitable for making slots for door lock seats and deep non-passing slots in general. It is recommended to use this cutter with oblique movements in relation to the workpiece.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A0435	001	32134	14	52	150	3		Dx Rh	14	0	Positiva / Positive
A0435	002	28200	16	52	150	3		Dx Rh	16	0	Positiva / Positive
A0435	003	28201	18	52	150	3		Dx Rh	18	0	Positiva / Positive
A0435	004	28202	14	52	150	3	Si-Yes	Dx Rh	14	2	Positiva / Positive
A0435	005	28203	16	52	150	3	Si-Yes	Dx Rh	16	2	Positiva / Positive
A0435	006	28204	18	52	150	3	Si-Yes	Dx Rh	18	2	Positiva / Positive

WOOD



## A0436

Punte elicoidali in hw (hm integrale) per cave serrature con elica convessa

*Hw (integral tungsten carbide) helical router bits for locks*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Indicata per eseguire cave per sedi serrature per porte ed asole non passanti profonde in genere. Si raccomanda di utilizzare questa fresa con movimenti obliqui rispetto al pezzo da lavorare. Alta velocità di avanzamento, fino al 40% in più di una punta classica, anche su materiali facilmente scheggiabili.

*Suitable for making slots for door lock seats and deep non-passing slots in general. It is recommended to use this cutter with oblique movements in relation to the workpiece. High feed rate, up to 40% more than a standard tool, even on easily chipped materials.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	B1	ROT	S	P	GT
A0436	004	83758	14	45	150	3	Si-Yes	95	Dx Rh	14	3	Positiva - negativa / Positive - negative
A0436	005	50305	16	45	150	3	Si-Yes	95	Dx Rh	16	3	Positiva - negativa / Positive - negative
A0436	006	95426	18	45	150	3	Si-Yes	95	Dx Rh	18	3	Positiva - negativa / Positive - negative

WOOD



## A2014

Punte elicoidali in hw (hm integrale) z=4 per legno

*Hw (integral tungsten carbide) helical router bits z=4 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

PER LAVORAZIONI DI FINITURA su legni teneri, duri, M.D.F., truciolari e multistrati. ELICA POSITIVA: espulsione del truciolo verso l'alto, ottima finitura del lato inferiore del pannello, adatta anche per esecuzioni di asole non passanti. ELICA Negativa: espulsione del truciolo verso il basso, ottima finitura del lato superiore del pannello. Velocità di avanzamento: 2 -16 m/min di 18 000 - 24 000 giri/min

*FOR FINISHING OPERATIONS on soft and hard wood, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for all working where drilling is most important. POSITIVE helix: expulsion of the chip upward, excellent finishing of lower side of panel, also suitable for blind button hole execution; NEGATIVE helix: expulsion of the chip downward, excellent finishing of upper side of panel..Feed rate: 2 - 16 m/min of 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2014	001	45571	8	22	70	4	Dx Rh	8	Positiva / Positive
A2014	002	45572	8	32	80	4	Dx Rh	8	Positiva / Positive
A2014	003	45573	10	32	80	4	Dx Rh	10	Positiva / Positive
A2014	004	45574	10	42	100	4	Dx Rh	10	Positiva / Positive
A2014	005	45575	12	32	80	4	Dx Rh	12	Positiva / Positive
A2014	006	45576	12	42	100	4	Dx Rh	12	Positiva / Positive
A2014	007	45577	12	52	100	4	Dx Rh	12	Positiva / Positive
A2014	008	45578	14	42	100	4	Dx Rh	14	Positiva / Positive
A2014	009	45579	14	52	100	4	Dx Rh	14	Positiva / Positive
A2014	010	45580	16	42	100	4	Dx Rh	16	Positiva / Positive
A2014	011	45581	16	52	100	4	Dx Rh	16	Positiva / Positive
A2014	012	45582	16	62	110	4	Dx Rh	16	Positiva / Positive
A2014	013	45583	18	52	100	4	Dx Rh	18	Positiva / Positive
A2014	014	45584	18	75	120	4	Dx Rh	18	Positiva / Positive
A2014	015	45585	20	52	100	4	Dx Rh	20	Positiva / Positive
A2014	016	45586	20	75	120	4	Dx Rh	20	Positiva / Positive
A2014	101	45587	8	22	70	4	Sx Lh	8	Positiva / Positive
A2014	102	45588	8	32	80	4	Sx Lh	8	Positiva / Positive
A2014	103	45589	10	32	80	4	Sx Lh	10	Positiva / Positive
A2014	104	45590	10	42	100	4	Sx Lh	10	Positiva / Positive
A2014	105	45591	12	32	80	4	Sx Lh	12	Positiva / Positive
A2014	106	45592	12	42	100	4	Sx Lh	12	Positiva / Positive
A2014	107	45593	12	52	100	4	Sx Lh	12	Positiva / Positive
A2014	108	45594	14	42	100	4	Sx Lh	14	Positiva / Positive
A2014	109	45595	14	52	100	4	Sx Lh	14	Positiva / Positive
A2014	110	45596	16	42	100	4	Sx Lh	16	Positiva / Positive
A2014	111	45597	16	52	100	4	Sx Lh	16	Positiva / Positive
A2014	112	45598	16	62	110	4	Sx Lh	16	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2014	113	45599	18	52	100	4	Sx Lh	18	Positiva / Positive
A2014	114	45600	18	75	120	4	Sx Lh	18	Positiva / Positive
A2014	115	45601	20	52	100	4	Sx Lh	20	Positiva / Positive
A2014	116	45602	20	75	120	4	Sx Lh	20	Positiva / Positive
A2014	201	45603	8	22	70	4	Dx Rh	8	Negativa / Negative
A2014	202	45604	8	32	80	4	Dx Rh	8	Negativa / Negative
A2014	203	45605	10	32	80	4	Dx Rh	10	Negativa / Negative
A2014	204	45606	10	42	100	4	Dx Rh	10	Negativa / Negative
A2014	205	45607	12	32	80	4	Dx Rh	12	Negativa / Negative
A2014	206	45608	12	42	100	4	Dx Rh	12	Negativa / Negative
A2014	207	45609	12	52	100	4	Dx Rh	12	Negativa / Negative
A2014	208	45610	14	42	100	4	Dx Rh	14	Negativa / Negative
A2014	209	45611	14	52	100	4	Dx Rh	14	Negativa / Negative
A2014	210	45612	16	42	100	4	Dx Rh	16	Negativa / Negative
A2014	211	45613	16	52	100	4	Dx Rh	16	Negativa / Negative
A2014	212	45614	16	62	110	4	Dx Rh	16	Negativa / Negative
A2014	213	45615	18	52	100	4	Dx Rh	18	Negativa / Negative
A2014	214	45616	18	75	120	4	Dx Rh	18	Negativa / Negative
A2014	215	45617	20	52	100	4	Dx Rh	20	Negativa / Negative
A2014	216	45618	20	75	120	4	Dx Rh	20	Negativa / Negative
A2014	301	45619	8	22	70	4	Sx Lh	8	Negativa / Negative
A2014	302	45620	8	32	80	4	Sx Lh	8	Negativa / Negative
A2014	303	45621	10	32	80	4	Sx Lh	10	Negativa / Negative
A2014	304	45622	10	42	100	4	Sx Lh	10	Negativa / Negative
A2014	305	45623	12	32	80	4	Sx Lh	12	Negativa / Negative
A2014	306	45624	12	42	100	4	Sx Lh	12	Negativa / Negative
A2014	307	45625	12	52	100	4	Sx Lh	12	Negativa / Negative
A2014	308	45626	14	42	100	4	Sx Lh	14	Negativa / Negative
A2014	309	45627	14	52	100	4	Sx Lh	14	Negativa / Negative
A2014	310	45628	16	42	100	4	Sx Lh	16	Negativa / Negative
A2014	311	45629	16	52	100	4	Sx Lh	16	Negativa / Negative
A2014	312	45630	16	62	110	4	Sx Lh	16	Negativa / Negative
A2014	313	45631	18	52	100	4	Sx Lh	18	Negativa / Negative
A2014	314	45632	18	75	120	4	Sx Lh	18	Negativa / Negative
A2014	315	45633	20	52	100	4	Sx Lh	20	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2014	316	45634	20	75	120	4	Sx Lh	20	Negativa / Negative

WOOD



## A2021

Punte elicoidali in hw (hm integrale) per cave serrature testa smussata per legno z=3

*Hw (integral tungsten carbide) helical router bits v-point lock sets for wood z=3*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per lavorazioni di finitura su pannelli, M.D.F., truciolare, nobilitati, impiallacciati. Esecuzione in HW (Hm integrale). Principalmente indicata per eseguire lavorazioni di contornatura ad elevata .Finitura .Velocità di avanzamento: 4-10 m/min di 18 000 - 24 000 giri/min

*FOR FINISHING OPERATIONS on panels, M.D.F., chipboard, plywood HW (integral tungsten carbide) execution. Especially recommended for edging execution with an excellent surface quality at high advancing speed and an excellent finishing of panel on both sides. Finishing .Feed rate: 4-10 m/min of 18 000 - 24 000 RPM*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	RT	ROT	S	P	GT
A2021	001	45771	14	45	150	3		Dx Rh	14	0	Positiva / Positive
A2021	002	45772	16	45	150	3		Dx Rh	16	0	Positiva / Positive
A2021	003	45773	18	45	150	3		Dx Rh	18	0	Positiva / Positive
A2021	004	45774	14	45	150	3R	Si-Yes	Dx Rh	14	2	Positiva / Positive
A2021	005	45775	16	45	150	3R	Si-Yes	Dx Rh	16	2	Positiva / Positive
A2021	006	45776	18	45	150	3R	Si-Yes	Dx Rh	18	2	Positiva / Positive

WOOD



## A2020

Punte hw (hm integrale) z=2 per coda di rondine per legno

*Hw (integral tungsten carbide) helical router bits for dovetail z=2 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte con taglienti dritti .Velocità di avanzamento: 4-12 m/min di 18 000 - 24 000 giri/min

*Router bits with straight cuttings .Feed rate: 4-12 m/min of 18 000 - 24 000 RPM*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2020	001	45763	7.8	6.8	60	2	Dx Rh	6	18	Positiva / Positive
A2020	003	45765	12	10	60	2	Dx Rh	12	7	Positiva / Positive
A2020	004	45766	16	16	60	2	Dx Rh	12	7	Positiva / Positive
A2020	005	45767	16	18	65	2	Dx Rh	12	14	Positiva / Positive
A2020	006	45768	20	18	65	2	Dx Rh	12	7	Positiva / Positive
A2020	007	45769	20	22	70	2	Dx Rh	12	14	Positiva / Positive

## WOOD



## A2022

Punte elicoidali in hw (hm integrale) per fori ciechi per legno

*Hw (integral tungsten carbide) helical router drill bits for dowel holes for wood*

**MATERIALE LAVORATO /  
MATERIALS**

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

**IMPIEGO / FUNCTION**

centro lavoro cnc  
*cnc router*

**DESCRIZIONE / DESCRIPTION**

Foratura con incisori e punta centrali

*For drilling rounded spurs and center point.*

**DATI TECNICI / TECHNICAL DATA**

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2022	001	45777	3	17	60	2	Dx Rh	3	Positiva / Positive
A2022	002	45778	4	25	60	2	Dx Rh	4	Positiva / Positive
A2022	003	45779	5	25	60	2	Dx Rh	5	Positiva / Positive
A2022	004	45780	6	45	80	2	Dx Rh	6	Positiva / Positive
A2022	005	45781	7	45	80	2	Dx Rh	7	Positiva / Positive
A2022	006	45782	8	65	100	2	Dx Rh	8	Positiva / Positive
A2022	007	45783	10	65	100	2	Dx Rh	10	Positiva / Positive
A2022	008	45784	12	75	110	2	Dx Rh	12	Positiva / Positive
A2022	009	45785	14	75	110	2	Dx Rh	14	Positiva / Positive
A2022	010	45786	16	75	110	2	Dx Rh	16	Positiva / Positive
A2022	011	45787	18	75	110	2	Dx Rh	18	Positiva / Positive
A2022	101	45790	3	17	60	2	Sx Lh	3	Positiva / Positive
A2022	102	45791	4	25	60	2	Sx Lh	4	Positiva / Positive
A2022	103	45792	5	25	60	2	Sx Lh	5	Positiva / Positive
A2022	104	45793	6	45	80	2	Sx Lh	6	Positiva / Positive
A2022	105	45794	7	45	80	2	Sx Lh	7	Positiva / Positive
A2022	106	45795	8	65	100	2	Sx Lh	8	Positiva / Positive
A2022	107	45796	10	65	100	2	Sx Lh	10	Positiva / Positive
A2022	108	45797	12	75	110	2	Sx Lh	12	Positiva / Positive
A2022	109	45798	14	75	110	2	Sx Lh	14	Positiva / Positive
A2022	110	45799	16	75	110	2	Sx Lh	16	Positiva / Positive
A2022	111	45800	18	75	110	2	Sx Lh	18	Positiva / Positive





## IMMAGINE NON DIPONIBILE

# A2023

Punte elicoidali in hw (hm integrale) per fori  
passanti per legno

*Hw (integral tungsten carbide) helical router drill  
bits for through holes for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft  
wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Foratura con affilatura a cuspid.

*For drilling with cuspid shape.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2023	001	45803	3	17	60	2	Dx Rh	3	Positiva / Positive
A2023	002	45804	4	25	60	2	Dx Rh	4	Positiva / Positive
A2023	003	45805	5	25	60	2	Dx Rh	5	Positiva / Positive
A2023	004	45806	6	45	80	2	Dx Rh	6	Positiva / Positive
A2023	005	45807	7	45	80	2	Dx Rh	7	Positiva / Positive
A2023	006	45808	8	65	100	2	Dx Rh	8	Positiva / Positive
A2023	007	45809	10	65	100	2	Dx Rh	10	Positiva / Positive
A2023	008	45810	12	75	110	2	Dx Rh	12	Positiva / Positive
A2023	009	45811	14	75	110	2	Dx Rh	14	Positiva / Positive
A2023	010	45812	16	75	110	2	Dx Rh	16	Positiva / Positive
A2023	011	45813	18	75	110	2	Dx Rh	18	Positiva / Positive
A2023	012	45814	20	75	110	2	Dx Rh	20	Positiva / Positive
A2023	013	45815	25	75	110	2	Dx Rh	25	Positiva / Positive
A2023	101	45816	3	17	60	2	Sx Lh	3	Positiva / Positive
A2023	102	45817	4	25	60	2	Sx Lh	4	Positiva / Positive
A2023	103	45818	5	25	60	2	Sx Lh	5	Positiva / Positive
A2023	104	45819	6	45	80	2	Sx Lh	6	Positiva / Positive
A2023	105	45820	7	45	80	2	Sx Lh	7	Positiva / Positive
A2023	106	45821	8	65	100	2	Sx Lh	8	Positiva / Positive
A2023	107	45822	10	65	100	2	Sx Lh	10	Positiva / Positive
A2023	108	45823	12	75	110	2	Sx Lh	12	Positiva / Positive
A2023	109	45824	14	75	110	2	Sx Lh	14	Positiva / Positive
A2023	110	45825	16	75	110	2	Sx Lh	16	Positiva / Positive
A2023	111	45826	18	75	110	2	Sx Lh	18	Positiva / Positive
A2023	112	45827	20	75	110	2	Sx Lh	20	Positiva / Positive
A2023	113	45828	25	75	110	2	Sx Lh	25	Positiva / Positive

WOOD



## A2024

Punte elicoidali in hw (hm integrale) per  
foratrice fori ciechi s=10 per legno

*Hw (integral tungsten carbide) helical router drill  
bits for dowel holes s=10 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft  
wood*

### IMPIEGO / FUNCTION

centro lavoro cnc, foratrice  
*boring machine, cnc router*

### DESCRIZIONE / DESCRIPTION

Foratura con incisori e punta centrali

*For drilling rounded spurs and center point.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2024	001	45829	4	25	57	2	Dx Rh	10	Positiva / Positive
A2024	002	45830	5	25	57	2	Dx Rh	10	Positiva / Positive
A2024	003	45831	6	25	57	2	Dx Rh	10	Positiva / Positive
A2024	004	45832	7	25	57	2	Dx Rh	10	Positiva / Positive
A2024	005	45833	8	25	57	2	Dx Rh	10	Positiva / Positive
A2024	006	45834	4	40	70	2	Dx Rh	10	Positiva / Positive
A2024	007	45835	5	40	70	2	Dx Rh	10	Positiva / Positive
A2024	008	45836	6	40	70	2	Dx Rh	10	Positiva / Positive
A2024	009	45837	7	40	70	2	Dx Rh	10	Positiva / Positive
A2024	010	45838	8	40	70	2	Dx Rh	10	Positiva / Positive
A2024	101	45839	4	25	57	2	Sx Lh	10	Positiva / Positive
A2024	102	45840	5	25	57	2	Sx Lh	10	Positiva / Positive
A2024	103	45841	6	25	57	2	Sx Lh	10	Positiva / Positive
A2024	104	45842	7	25	57	2	Sx Lh	10	Positiva / Positive
A2024	105	45843	8	25	57	2	Sx Lh	10	Positiva / Positive
A2024	106	45844	4	40	70	2	Sx Lh	10	Positiva / Positive
A2024	107	45845	5	40	70	2	Sx Lh	10	Positiva / Positive
A2024	108	45846	6	40	70	2	Sx Lh	10	Positiva / Positive
A2024	109	45847	7	40	70	2	Sx Lh	10	Positiva / Positive
A2024	110	45848	8	40	70	2	Sx Lh	10	Positiva / Positive

WOOD



## A2025

Punte elicoidali in hw (hm integrale) per foratrice fori passanti s=10 per legno

*Hw (integral tungsten carbide) helical router drill bits for through holes s=10 for wood*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft wood*

### IMPIEGO / FUNCTION

centro lavoro cnc, foratrice  
*boring machine, cnc router*

### DESCRIZIONE / DESCRIPTION

Foratura con affilatura a cuspid.

*For drilling with cuspid shape.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2025	001	45849	4	25	57	2	Dx Rh	10	Positiva / Positive
A2025	002	45850	5	25	57	2	Dx Rh	10	Positiva / Positive
A2025	003	45851	6	25	57	2	Dx Rh	10	Positiva / Positive
A2025	004	45852	7	25	57	2	Dx Rh	10	Positiva / Positive
A2025	005	45853	8	25	57	2	Dx Rh	10	Positiva / Positive
A2025	006	45854	4	40	70	2	Dx Rh	10	Positiva / Positive
A2025	007	45855	5	40	70	2	Dx Rh	10	Positiva / Positive
A2025	008	45856	6	40	70	2	Dx Rh	10	Positiva / Positive
A2025	009	45857	7	40	70	2	Dx Rh	10	Positiva / Positive
A2025	010	45858	8	40	70	2	Dx Rh	10	Positiva / Positive
A2025	101	45859	4	25	57	2	Sx Lh	10	Positiva / Positive
A2025	102	45860	5	25	57	2	Sx Lh	10	Positiva / Positive
A2025	103	45861	6	25	57	2	Sx Lh	10	Positiva / Positive
A2025	104	45862	7	25	57	2	Sx Lh	10	Positiva / Positive
A2025	105	45863	8	25	57	2	Sx Lh	10	Positiva / Positive
A2025	106	45864	4	40	70	2	Sx Lh	10	Positiva / Positive
A2025	107	45865	5	40	70	2	Sx Lh	10	Positiva / Positive
A2025	108	45866	6	40	70	2	Sx Lh	10	Positiva / Positive
A2025	109	45867	7	40	70	2	Sx Lh	10	Positiva / Positive
A2025	110	45868	8	40	70	2	Sx Lh	10	Positiva / Positive



## A2154

Punte da foratrice per fori passanti ad alte prestazioni

*High performance trough hole drill bits*

### DESCRIZIONE / DESCRIPTION

Punte per fori passanti corpo in metallo duro integrale affilatura in testa antischeggia

*Drill bits for through holes solid carbide body anti-splinter head sharpening*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	LTT	Z	ROT	GT
A2154	001	97193	3	57.5	2	Dx Rh	Positiva / Positive
A2154	002	97194	3	57.5	2	Sx Lh	Positiva / Positive
A2154	003	97195	4	57.5	2	Dx Rh	Positiva / Positive
A2154	004	97196	4	57.5	2	Sx Lh	Positiva / Positive
A2154	005	97197	5	57.5	2	Dx Rh	Positiva / Positive
A2154	006	97198	5	57.5	2	Sx Lh	Positiva / Positive
A2154	007	97791	6	57.5	2	Dx Rh	Positiva / Positive
A2154	008	97792	6	57.5	2	Sx Lh	Positiva / Positive
A2154	009	97793	8	57.5	2	Dx Rh	Positiva / Positive
A2154	010	97794	8	57.5	2	Sx Lh	Positiva / Positive
A2154	011	97795	10	57.5	2	Dx Rh	Positiva / Positive
A2154	012	97796	10	57.5	2	Sx Lh	Positiva / Positive
A2154	101	97797	3	70	2	Dx Rh	Positiva / Positive
A2154	102	97798	3	70	2	Sx Lh	Positiva / Positive
A2154	103	97799	4	70	2	Dx Rh	Positiva / Positive
A2154	104	97800	4	70	2	Sx Lh	Positiva / Positive
A2154	105	97801	5	70	2	Dx Rh	Positiva / Positive
A2154	106	97802	5	70	2	Sx Lh	Positiva / Positive
A2154	107	97803	6	70	2	Dx Rh	Positiva / Positive
A2154	108	97804	6	70	2	Sx Lh	Positiva / Positive
A2154	109	97805	8	70	2	Dx Rh	Positiva / Positive
A2154	110	97806	8	70	2	Sx Lh	Positiva / Positive
A2154	111	97807	10	70	2	Dx Rh	Positiva / Positive
A2154	112	97808	10	70	2	Sx Lh	Positiva / Positive



## IMMAGINE NON DIPONIBILE

## A2027

Punte elicoidali in hw (hm integrale) per anube  
per legno

*Hw (integral tungsten carbide) helical router drill  
bits for anuba*

### MATERIALE LAVORATO / MATERIALS

legno duro, legno tenero, mdf  
*hHrd wood, hHrd wood, mdf, soft  
wood*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Punte per levanodi, foratura eccellente e lunga durata

*For hinge drilling, very good drilling quality and long service life.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2027	001	45869	5	20	75	2	Dx Rh	10	Positiva / Positive
A2027	002	45870	5.7	20	80	2	Dx Rh	10	Positiva / Positive
A2027	003	45871	6.5	15	85	2	Dx Rh	10	Positiva / Positive
A2027	004	45872	7	15	90	2	Dx Rh	10	Positiva / Positive
A2027	005	45873	7.7	15	95	2	Dx Rh	10	Positiva / Positive
A2027	006	45874	8.2	20	105	2	Dx Rh	10	Positiva / Positive
A2027	007	45875	8.7	20	115	2	Dx Rh	10	Positiva / Positive

PLEXIGLAS



## A2034

Punte elicoidali in hw (hm integrale) z=1 testa sferica per plexiglass elica 25 gradi

*Hw (integral tungsten carbide) helical router bits spherical z=1 for plexiglass helix 25 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
Plexiglass  
*Plexyglass*

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA
A2034	001	46128	3	12	40	1	Dx Rh	3	25
A2034	002	46129	4	12	50	1	Dx Rh	4	25
A2034	003	46130	5	17	50	1	Dx Rh	5	25
A2034	004	46131	6	17	60	1	Dx Rh	6	25
A2034	005	46132	6	27	60	1	Dx Rh	6	25
A2034	006	46133	8	22	80	1	Dx Rh	8	25
A2034	007	46134	8	32	80	1	Dx Rh	8	25
A2034	008	46135	10	32	80	1	Dx Rh	10	25
A2034	009	46136	10	42	100	1	Dx Rh	10	25
A2034	010	46137	12	32	80	1	Dx Rh	12	25
A2034	011	46138	12	42	100	1	Dx Rh	12	25
A2034	012	46139	12	52	100	1	Dx Rh	12	25
A2034	013	46140	14	42	100	1	Dx Rh	14	25
A2034	014	46141	14	52	100	1	Dx Rh	14	25
A2034	101	46142	3	12	40	1	Sx Lh	3	25
A2034	102	46143	4	12	50	1	Sx Lh	4	25
A2034	103	46144	5	17	50	1	Sx Lh	5	25
A2034	104	46145	6	17	60	1	Sx Lh	6	25
A2034	105	46146	6	27	60	1	Sx Lh	6	25
A2034	106	46147	8	22	80	1	Sx Lh	8	25
A2034	107	46148	8	32	80	1	Sx Lh	8	25
A2034	108	46149	10	32	80	1	Sx Lh	10	25
A2034	109	46150	10	42	100	1	Sx Lh	10	25
A2034	110	46151	12	32	80	1	Sx Lh	12	25
A2034	111	46152	12	42	100	1	Sx Lh	12	25
A2034	112	46153	12	52	100	1	Sx Lh	12	25
A2034	113	46154	14	42	100	1	Sx Lh	14	25

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA
A2034	114	46155	14	52	100	1	Sx Lh	14	25

PLEXIGLAS



## A2029

Punte in hw (hm integrale) z=1 per plexiglass  
*Hw (integral tungsten carbide) helical router drill bits for plexiglass z=1*

**MATERIALE LAVORATO /  
 MATERIALS**  
 Plexiglass  
 Plexyglass

**IMPIEGO / FUNCTION**  
 centro lavoro cnc  
 cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2029	001	45876	3	12	40	1	Dx Rh	3	Positiva / Positive
A2029	002	45877	4	12	50	1	Dx Rh	4	Positiva / Positive
A2029	003	45878	5	17	50	1	Dx Rh	5	Positiva / Positive
A2029	004	45879	6	17	60	1	Dx Rh	6	Positiva / Positive
A2029	005	45880	6	27	60	1	Dx Rh	6	Positiva / Positive
A2029	006	45881	8	22	80	1	Dx Rh	8	Positiva / Positive
A2029	007	45882	8	32	80	1	Dx Rh	8	Positiva / Positive
A2029	008	45883	10	32	80	1	Dx Rh	10	Positiva / Positive
A2029	009	45884	10	42	100	1	Dx Rh	10	Positiva / Positive
A2029	010	45885	12	32	80	1	Dx Rh	12	Positiva / Positive
A2029	011	45886	12	42	100	1	Dx Rh	12	Positiva / Positive
A2029	012	45887	12	52	100	1	Dx Rh	12	Positiva / Positive
A2029	013	45888	14	42	100	1	Dx Rh	14	Positiva / Positive
A2029	014	45889	14	52	100	1	Dx Rh	14	Positiva / Positive
A2029	101	45890	3	12	40	1	Sx Lh	3	Positiva / Positive
A2029	102	45891	4	12	50	1	Sx Lh	4	Positiva / Positive
A2029	103	45892	5	17	50	1	Sx Lh	5	Positiva / Positive
A2029	104	45893	6	17	60	1	Sx Lh	6	Positiva / Positive
A2029	105	45894	6	27	60	1	Sx Lh	6	Positiva / Positive
A2029	106	45895	8	22	80	1	Sx Lh	8	Positiva / Positive
A2029	107	45896	8	32	80	1	Sx Lh	8	Positiva / Positive
A2029	108	45897	10	32	80	1	Sx Lh	10	Positiva / Positive
A2029	109	45898	10	42	100	1	Sx Lh	10	Positiva / Positive
A2029	110	45899	12	32	80	1	Sx Lh	12	Positiva / Positive
A2029	111	45900	12	42	100	1	Sx Lh	12	Positiva / Positive
A2029	112	45901	12	52	100	1	Sx Lh	12	Positiva / Positive
A2029	113	45902	14	42	100	1	Sx Lh	14	Positiva / Positive



ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2029	114	45903	14	52	100	1	Sx Lh	14	Positiva / Positive

PLEXIGLAS



## A2030

Punte in hw (hm integrale) z=1 per plexiglass  
elica 10 gradi

*Hw (integral tungsten carbide) helical router drill  
bits for plexiglass z=1 helix 10 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
Plexiglass  
Plexyglass

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2030	001	45904	3	12	40	1	Dx Rh	3	10	Positiva / Positive
A2030	002	45905	4	12	50	1	Dx Rh	4	10	Positiva / Positive
A2030	003	45906	5	17	50	1	Dx Rh	5	10	Positiva / Positive
A2030	004	45907	6	17	60	1	Dx Rh	6	10	Positiva / Positive
A2030	005	45908	6	27	60	1	Dx Rh	6	10	Positiva / Positive
A2030	006	45909	8	22	80	1	Dx Rh	8	10	Positiva / Positive
A2030	007	45910	8	32	80	1	Dx Rh	8	10	Positiva / Positive
A2030	008	45911	10	32	80	1	Dx Rh	10	10	Positiva / Positive
A2030	009	45912	10	42	100	1	Dx Rh	10	10	Positiva / Positive
A2030	010	45913	12	32	80	1	Dx Rh	12	10	Positiva / Positive
A2030	011	45914	12	42	100	1	Dx Rh	12	10	Positiva / Positive
A2030	012	45915	12	52	100	1	Dx Rh	12	10	Positiva / Positive
A2030	013	45916	14	42	100	1	Dx Rh	14	10	Positiva / Positive
A2030	014	45917	14	52	100	1	Dx Rh	14	10	Positiva / Positive
A2030	101	45918	3	12	40	1	Sx Lh	3	10	Positiva / Positive
A2030	102	45919	4	12	50	1	Sx Lh	4	10	Positiva / Positive
A2030	103	45920	5	17	50	1	Sx Lh	5	10	Positiva / Positive
A2030	104	45921	6	17	60	1	Sx Lh	6	10	Positiva / Positive
A2030	105	45922	6	27	60	1	Sx Lh	6	10	Positiva / Positive
A2030	106	45923	8	22	80	1	Sx Lh	8	10	Positiva / Positive
A2030	107	45924	8	32	80	1	Sx Lh	8	10	Positiva / Positive
A2030	108	45925	10	32	80	1	Sx Lh	10	10	Positiva / Positive
A2030	109	45926	10	42	100	1	Sx Lh	10	10	Positiva / Positive
A2030	110	45927	12	32	80	1	Sx Lh	12	10	Positiva / Positive
A2030	111	45928	12	42	100	1	Sx Lh	12	10	Positiva / Positive
A2030	112	45929	12	52	100	1	Sx Lh	12	10	Positiva / Positive
A2030	113	45930	14	42	100	1	Sx Lh	14	10	Positiva / Positive
A2030	114	45931	14	52	100	1	Sx Lh	14	10	Positiva / Positive
A2030	201	45932	3	12	40	1	Dx Rh	3	10	Negativa / Negative
A2030	202	45933	4	12	50	1	Dx Rh	4	10	Negativa / Negative
A2030	203	45934	5	17	50	1	Dx Rh	5	10	Negativa / Negative
A2030	204	45935	6	17	60	1	Dx Rh	6	10	Negativa / Negative

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2030	205	45936	6	27	60	1	Dx Rh	6	10	Negativa / Negative
A2030	206	45937	8	22	80	1	Dx Rh	8	10	Negativa / Negative
A2030	207	45938	8	32	80	1	Dx Rh	8	10	Negativa / Negative
A2030	208	45939	10	32	80	1	Dx Rh	10	10	Negativa / Negative
A2030	209	45940	10	42	100	1	Dx Rh	10	10	Negativa / Negative
A2030	210	45941	12	32	80	1	Dx Rh	12	10	Negativa / Negative
A2030	211	45942	12	42	100	1	Dx Rh	12	10	Negativa / Negative
A2030	212	45943	12	52	100	1	Dx Rh	12	10	Negativa / Negative
A2030	213	45944	14	42	100	1	Dx Rh	14	10	Negativa / Negative
A2030	214	45945	14	52	100	1	Dx Rh	14	10	Negativa / Negative
A2030	301	45946	3	12	40	1	Sx Lh	3	10	Negativa / Negative
A2030	302	45947	4	12	50	1	Sx Lh	4	10	Negativa / Negative
A2030	303	45948	5	17	50	1	Sx Lh	5	10	Negativa / Negative
A2030	304	45949	6	17	60	1	Sx Lh	6	10	Negativa / Negative
A2030	305	45950	6	27	60	1	Sx Lh	6	10	Negativa / Negative
A2030	306	45951	8	22	80	1	Sx Lh	8	10	Negativa / Negative
A2030	307	45952	8	32	80	1	Sx Lh	8	10	Negativa / Negative
A2030	308	45953	10	32	80	1	Sx Lh	10	10	Negativa / Negative
A2030	309	45954	10	42	100	1	Sx Lh	10	10	Negativa / Negative
A2030	310	45955	12	32	80	1	Sx Lh	12	10	Negativa / Negative
A2030	311	45956	12	42	100	1	Sx Lh	12	10	Negativa / Negative
A2030	312	45957	12	52	100	1	Sx Lh	12	10	Negativa / Negative
A2030	313	45958	14	42	100	1	Sx Lh	14	10	Negativa / Negative
A2030	314	45959	14	52	100	1	Sx Lh	14	10	Negativa / Negative

PLEXIGLAS



## A2031

Punte elicoidali in hw (hm integrale) z=1 per plexiglass elica 15 gradi

*Hw (integral tungsten carbide) helical router bits z=1 for plexiglass helix 15 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
Plexiglass  
*Plexyglass*

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2031	001	45960	3	12	40	1	Dx Rh	3	15	Positiva / Positive
A2031	002	45961	4	12	50	1	Dx Rh	4	15	Positiva / Positive
A2031	003	45962	5	17	50	1	Dx Rh	5	15	Positiva / Positive
A2031	004	45963	6	17	60	1	Dx Rh	6	15	Positiva / Positive
A2031	005	45964	6	27	60	1	Dx Rh	6	15	Positiva / Positive
A2031	006	45965	8	22	80	1	Dx Rh	8	15	Positiva / Positive
A2031	007	45966	8	32	80	1	Dx Rh	8	15	Positiva / Positive
A2031	008	45967	10	32	80	1	Dx Rh	10	15	Positiva / Positive
A2031	009	45968	10	42	100	1	Dx Rh	10	15	Positiva / Positive
A2031	010	45969	12	32	80	1	Dx Rh	12	15	Positiva / Positive
A2031	011	45970	12	42	100	1	Dx Rh	12	15	Positiva / Positive
A2031	012	45971	12	52	100	1	Dx Rh	12	15	Positiva / Positive
A2031	013	45972	14	42	100	1	Dx Rh	14	15	Positiva / Positive
A2031	014	45973	14	52	100	1	Dx Rh	14	15	Positiva / Positive
A2031	101	45974	3	12	40	1	Sx Lh	3	15	Positiva / Positive
A2031	102	45975	4	12	50	1	Sx Lh	4	15	Positiva / Positive
A2031	103	45976	5	17	50	1	Sx Lh	5	15	Positiva / Positive
A2031	104	45977	6	17	60	1	Sx Lh	6	15	Positiva / Positive
A2031	105	45978	6	27	60	1	Sx Lh	6	15	Positiva / Positive
A2031	106	45979	8	22	80	1	Sx Lh	8	15	Positiva / Positive
A2031	107	45980	8	32	80	1	Sx Lh	8	15	Positiva / Positive
A2031	108	45981	10	32	80	1	Sx Lh	10	15	Positiva / Positive
A2031	109	45982	10	42	100	1	Sx Lh	10	15	Positiva / Positive
A2031	110	45983	12	32	80	1	Sx Lh	12	15	Positiva / Positive
A2031	111	45984	12	42	100	1	Sx Lh	12	15	Positiva / Positive
A2031	112	45985	12	52	100	1	Sx Lh	12	15	Positiva / Positive
A2031	113	45986	14	42	100	1	Sx Lh	14	15	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2031	114	45987	14	52	100	1	Sx Lh	14	15	Positiva / Positive
A2031	201	45988	3	12	40	1	Dx Rh	3	15	Negativa / Negative
A2031	202	45989	4	12	50	1	Dx Rh	4	15	Negativa / Negative
A2031	203	45990	5	17	50	1	Dx Rh	5	15	Negativa / Negative
A2031	204	45991	6	17	60	1	Dx Rh	6	15	Negativa / Negative
A2031	205	45992	6	27	60	1	Dx Rh	6	15	Negativa / Negative
A2031	206	45993	8	22	80	1	Dx Rh	8	15	Negativa / Negative
A2031	207	45994	8	32	80	1	Dx Rh	8	15	Negativa / Negative
A2031	208	45995	10	32	80	1	Dx Rh	10	15	Negativa / Negative
A2031	209	45996	10	42	100	1	Dx Rh	10	15	Negativa / Negative
A2031	210	45997	12	32	80	1	Dx Rh	12	15	Negativa / Negative
A2031	211	45998	12	42	100	1	Dx Rh	12	15	Negativa / Negative
A2031	212	45999	12	52	100	1	Dx Rh	12	15	Negativa / Negative
A2031	213	46000	14	42	100	1	Dx Rh	14	15	Negativa / Negative
A2031	214	46001	14	52	100	1	Dx Rh	14	15	Negativa / Negative
A2031	301	46002	3	12	40	1	Sx Lh	3	15	Negativa / Negative
A2031	302	46003	4	12	50	1	Sx Lh	4	15	Negativa / Negative
A2031	303	46004	5	17	50	1	Sx Lh	5	15	Negativa / Negative
A2031	304	46005	6	17	60	1	Sx Lh	6	15	Negativa / Negative
A2031	305	46006	6	27	60	1	Sx Lh	6	15	Negativa / Negative
A2031	306	46007	8	22	80	1	Sx Lh	8	15	Negativa / Negative
A2031	307	46008	8	32	80	1	Sx Lh	8	15	Negativa / Negative
A2031	308	46009	10	32	80	1	Sx Lh	10	15	Negativa / Negative
A2031	309	46010	10	42	100	1	Sx Lh	10	15	Negativa / Negative
A2031	310	46011	12	32	80	1	Sx Lh	12	15	Negativa / Negative
A2031	311	46012	12	42	100	1	Sx Lh	12	15	Negativa / Negative
A2031	312	46013	12	52	100	1	Sx Lh	12	15	Negativa / Negative
A2031	313	46014	14	42	100	1	Sx Lh	14	15	Negativa / Negative
A2031	314	46015	14	52	100	1	Sx Lh	14	15	Negativa / Negative

PLEXIGLAS



## A2032

Punte elicoidali in hw (hm integrale) z=1 per plexiglass elica 25 gradi

*Hw (integral tungsten carbide) helical router bits z=1 for plexiglass helix 25 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
Plexiglass  
*Plexyglass*

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2032	001	46016	3	12	40	1	Dx Rh	3	25	Positiva / Positive
A2032	002	46017	4	12	50	1	Dx Rh	4	25	Positiva / Positive
A2032	003	46018	5	17	50	1	Dx Rh	5	25	Positiva / Positive
A2032	004	46019	6	17	60	1	Dx Rh	6	25	Positiva / Positive
A2032	005	46020	6	27	60	1	Dx Rh	6	25	Positiva / Positive
A2032	006	46021	8	22	80	1	Dx Rh	8	25	Positiva / Positive
A2032	007	46022	8	32	80	1	Dx Rh	8	25	Positiva / Positive
A2032	008	46023	10	32	80	1	Dx Rh	10	25	Positiva / Positive
A2032	009	46024	10	42	100	1	Dx Rh	10	25	Positiva / Positive
A2032	010	46025	12	32	80	1	Dx Rh	12	25	Positiva / Positive
A2032	011	46026	12	42	100	1	Dx Rh	12	25	Positiva / Positive
A2032	012	46027	12	52	100	1	Dx Rh	12	25	Positiva / Positive
A2032	013	46028	14	42	100	1	Dx Rh	14	25	Positiva / Positive
A2032	014	46029	14	52	100	1	Dx Rh	14	25	Positiva / Positive
A2032	101	46030	3	12	40	1	Sx Lh	3	25	Positiva / Positive
A2032	102	46031	4	12	50	1	Sx Lh	4	25	Positiva / Positive
A2032	103	46032	5	17	50	1	Sx Lh	5	25	Positiva / Positive
A2032	104	46033	6	17	60	1	Sx Lh	6	25	Positiva / Positive
A2032	105	46034	6	27	60	1	Sx Lh	6	25	Positiva / Positive
A2032	106	46035	8	22	80	1	Sx Lh	8	25	Positiva / Positive
A2032	107	46036	8	32	80	1	Sx Lh	8	25	Positiva / Positive
A2032	108	46037	10	32	80	1	Sx Lh	10	25	Positiva / Positive
A2032	109	46038	10	42	100	1	Sx Lh	10	25	Positiva / Positive
A2032	110	46039	12	32	80	1	Sx Lh	12	25	Positiva / Positive
A2032	111	46040	12	42	100	1	Sx Lh	12	25	Positiva / Positive
A2032	112	46041	12	52	100	1	Sx Lh	12	25	Positiva / Positive
A2032	113	46042	14	42	100	1	Sx Lh	14	25	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2032	114	46043	14	52	100	1	Sx Lh	14	25	Positiva / Positive
A2032	201	46044	3	12	40	1	Dx Rh	3	25	Negativa / Negative
A2032	202	46045	4	12	50	1	Dx Rh	4	25	Negativa / Negative
A2032	203	46046	5	17	50	1	Dx Rh	5	25	Negativa / Negative
A2032	204	46047	6	17	60	1	Dx Rh	6	25	Negativa / Negative
A2032	205	46048	6	27	60	1	Dx Rh	6	25	Negativa / Negative
A2032	206	46049	8	22	80	1	Dx Rh	8	25	Negativa / Negative
A2032	207	46050	8	32	80	1	Dx Rh	8	25	Negativa / Negative
A2032	208	46051	10	32	80	1	Dx Rh	10	25	Negativa / Negative
A2032	209	46052	10	42	100	1	Dx Rh	10	25	Negativa / Negative
A2032	210	46053	12	32	80	1	Dx Rh	12	25	Negativa / Negative
A2032	211	46054	12	42	100	1	Dx Rh	12	25	Negativa / Negative
A2032	212	46055	12	52	100	1	Dx Rh	12	25	Negativa / Negative
A2032	213	46056	14	42	100	1	Dx Rh	14	25	Negativa / Negative
A2032	214	46057	14	52	100	1	Dx Rh	14	25	Negativa / Negative
A2032	301	46058	3	12	40	1	Sx Lh	3	25	Negativa / Negative
A2032	302	46059	4	12	50	1	Sx Lh	4	25	Negativa / Negative
A2032	303	46060	5	17	50	1	Sx Lh	5	25	Negativa / Negative
A2032	304	46061	6	17	60	1	Sx Lh	6	25	Negativa / Negative
A2032	305	46062	6	27	60	1	Sx Lh	6	25	Negativa / Negative
A2032	306	46063	8	22	80	1	Sx Lh	8	25	Negativa / Negative
A2032	307	46064	8	32	80	1	Sx Lh	8	25	Negativa / Negative
A2032	308	46065	10	32	80	1	Sx Lh	10	25	Negativa / Negative
A2032	309	46066	10	42	100	1	Sx Lh	10	25	Negativa / Negative
A2032	310	46067	12	32	80	1	Sx Lh	12	25	Negativa / Negative
A2032	311	46068	12	42	100	1	Sx Lh	12	25	Negativa / Negative
A2032	312	46069	12	52	100	1	Sx Lh	12	25	Negativa / Negative
A2032	313	46070	14	42	100	1	Sx Lh	14	25	Negativa / Negative
A2032	314	46071	14	52	100	1	Sx Lh	14	25	Negativa / Negative

PLEXIGLAS



## A2033

Punte elicoidali in hw (hm integrale) z=1 per plexiglass elica 30 gradi

*Hw (integral tungsten carbide) helical router bits z=1 for plexiglass helix 30 degrees*

**MATERIALE LAVORATO /  
MATERIALS**  
Plexiglass  
Plexyglass

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2033	001	46072	3	12	40	1	Dx Rh	3	30	Positiva / Positive
A2033	002	46073	4	12	50	1	Dx Rh	4	30	Positiva / Positive
A2033	003	46074	5	17	50	1	Dx Rh	5	30	Positiva / Positive
A2033	004	46075	6	17	60	1	Dx Rh	6	30	Positiva / Positive
A2033	005	46076	6	27	60	1	Dx Rh	6	30	Positiva / Positive
A2033	006	46077	8	22	80	1	Dx Rh	8	30	Positiva / Positive
A2033	007	46078	8	32	80	1	Dx Rh	8	30	Positiva / Positive
A2033	008	46079	10	32	80	1	Dx Rh	10	30	Positiva / Positive
A2033	009	46080	10	42	100	1	Dx Rh	10	30	Positiva / Positive
A2033	010	46081	12	32	80	1	Dx Rh	12	30	Positiva / Positive
A2033	011	46082	12	42	100	1	Dx Rh	12	30	Positiva / Positive
A2033	012	46083	12	52	100	1	Dx Rh	12	30	Positiva / Positive
A2033	013	46084	14	42	100	1	Dx Rh	14	30	Positiva / Positive
A2033	014	46085	14	52	100	1	Dx Rh	14	30	Positiva / Positive
A2033	101	46086	3	12	40	1	Sx Lh	3	30	Positiva / Positive
A2033	102	46087	4	12	50	1	Sx Lh	4	30	Positiva / Positive
A2033	103	46088	5	17	50	1	Sx Lh	5	30	Positiva / Positive
A2033	104	46089	6	17	60	1	Sx Lh	6	30	Positiva / Positive
A2033	105	46090	6	27	60	1	Sx Lh	6	30	Positiva / Positive
A2033	106	46091	8	22	80	1	Sx Lh	8	30	Positiva / Positive
A2033	107	46092	8	32	80	1	Sx Lh	8	30	Positiva / Positive
A2033	108	46093	10	32	80	1	Sx Lh	10	30	Positiva / Positive
A2033	109	46094	10	42	100	1	Sx Lh	10	30	Positiva / Positive
A2033	110	46095	12	32	80	1	Sx Lh	12	30	Positiva / Positive
A2033	111	46096	12	42	100	1	Sx Lh	12	30	Positiva / Positive
A2033	112	46097	12	52	100	1	Sx Lh	12	30	Positiva / Positive
A2033	113	46098	14	42	100	1	Sx Lh	14	30	Positiva / Positive



ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2033	114	46099	14	52	100	1	Sx Lh	14	30	Positiva / Positive
A2033	201	46100	3	12	40	1	Dx Rh	3	30	Negativa / Negative
A2033	202	46101	4	12	50	1	Dx Rh	4	30	Negativa / Negative
A2033	203	46102	5	17	50	1	Dx Rh	5	30	Negativa / Negative
A2033	204	46103	6	17	60	1	Dx Rh	6	30	Negativa / Negative
A2033	205	46104	6	27	60	1	Dx Rh	6	30	Negativa / Negative
A2033	206	46105	8	22	80	1	Dx Rh	8	30	Negativa / Negative
A2033	207	46106	8	32	80	1	Dx Rh	8	30	Negativa / Negative
A2033	208	46107	10	32	80	1	Dx Rh	10	30	Negativa / Negative
A2033	209	46108	10	42	100	1	Dx Rh	10	30	Negativa / Negative
A2033	210	46109	12	32	80	1	Dx Rh	12	30	Negativa / Negative
A2033	211	46110	12	42	100	1	Dx Rh	12	30	Negativa / Negative
A2033	212	46111	12	52	100	1	Dx Rh	12	30	Negativa / Negative
A2033	213	46112	14	42	100	1	Dx Rh	14	30	Negativa / Negative
A2033	214	46113	14	52	100	1	Dx Rh	14	30	Negativa / Negative
A2033	301	46114	3	12	40	1	Sx Lh	3	30	Negativa / Negative
A2033	302	46115	4	12	50	1	Sx Lh	4	30	Negativa / Negative
A2033	303	46116	5	17	50	1	Sx Lh	5	30	Negativa / Negative
A2033	304	46117	6	17	60	1	Sx Lh	6	30	Negativa / Negative
A2033	305	46118	6	27	60	1	Sx Lh	6	30	Negativa / Negative
A2033	306	46119	8	22	80	1	Sx Lh	8	30	Negativa / Negative
A2033	307	46120	8	32	80	1	Sx Lh	8	30	Negativa / Negative
A2033	308	46121	10	32	80	1	Sx Lh	10	30	Negativa / Negative
A2033	309	46122	10	42	100	1	Sx Lh	10	30	Negativa / Negative
A2033	310	46123	12	32	80	1	Sx Lh	12	30	Negativa / Negative
A2033	311	46124	12	42	100	1	Sx Lh	12	30	Negativa / Negative
A2033	312	46125	12	52	100	1	Sx Lh	12	30	Negativa / Negative
A2033	313	46126	14	42	100	1	Sx Lh	14	30	Negativa / Negative
A2033	314	46127	14	52	100	1	Sx Lh	14	30	Negativa / Negative

PLEXIGLAS



## A2035

Punte elicoidali in hw (hm integrale) z=1 testa smussata per plexiglass elica 25 gradi

*Hw (integral tungsten carbide) helical router bits chamfered head z=1 for plexiglass helix 25 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
Plexiglass  
*Plexyglass*

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2035	001	46156	3	12	40	1	Dx Rh	3	25	Positiva / Positive
A2035	002	46157	4	12	50	1	Dx Rh	4	25	Positiva / Positive
A2035	003	46158	5	17	50	1	Dx Rh	5	25	Positiva / Positive
A2035	004	46159	6	17	60	1	Dx Rh	6	25	Positiva / Positive
A2035	005	46160	6	27	60	1	Dx Rh	6	25	Positiva / Positive
A2035	006	46161	8	22	80	1	Dx Rh	8	25	Positiva / Positive
A2035	007	46162	8	32	80	1	Dx Rh	8	25	Positiva / Positive
A2035	008	46163	10	32	80	1	Dx Rh	10	25	Positiva / Positive
A2035	009	46164	10	42	100	1	Dx Rh	10	25	Positiva / Positive
A2035	010	46165	12	32	80	1	Dx Rh	12	25	Positiva / Positive
A2035	011	46166	12	42	100	1	Dx Rh	12	25	Positiva / Positive
A2035	012	46167	12	52	100	1	Dx Rh	12	25	Positiva / Positive
A2035	013	46168	14	42	100	1	Dx Rh	14	25	Positiva / Positive
A2035	014	46169	14	52	100	1	Dx Rh	14	25	Positiva / Positive
A2035	101	46170	3	12	40	1	Sx Lh	3	25	Positiva / Positive
A2035	102	46171	4	12	50	1	Sx Lh	4	25	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2035	103	46172	5	17	50	1	Sx Lh	5	25	Positiva / Positive
A2035	104	46173	6	17	60	1	Sx Lh	6	25	Positiva / Positive
A2035	105	46174	6	27	60	1	Sx Lh	6	25	Positiva / Positive
A2035	106	46175	8	22	80	1	Sx Lh	8	25	Positiva / Positive
A2035	107	46176	8	32	80	1	Sx Lh	8	25	Positiva / Positive
A2035	108	46177	10	32	80	1	Sx Lh	10	25	Positiva / Positive
A2035	109	46178	10	42	100	1	Sx Lh	10	25	Positiva / Positive
A2035	110	46179	12	32	80	1	Sx Lh	12	25	Positiva / Positive
A2035	111	46180	12	42	100	1	Sx Lh	12	25	Positiva / Positive
A2035	112	46181	12	52	100	1	Sx Lh	12	25	Positiva / Positive
A2035	113	46182	14	42	100	1	Sx Lh	14	25	Positiva / Positive
A2035	114	46183	14	52	100	1	Sx Lh	14	25	Positiva / Positive

PLASTIC



## A2036

Punte in hw (hm integrale) z=1 per plastica  
*Hw (integral tungsten carbide) router bits z=1 for plastic*

**MATERIALE LAVORATO /  
 MATERIALS**  
 plastica  
*plastic*

**IMPIEGO / FUNCTION**  
 centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2036	001	46184	3	12	40	1	Dx Rh	3	Positiva / Positive
A2036	002	46185	4	12	50	1	Dx Rh	4	Positiva / Positive
A2036	003	46186	5	17	50	1	Dx Rh	5	Positiva / Positive
A2036	004	46187	6	17	60	1	Dx Rh	6	Positiva / Positive
A2036	005	46188	6	27	60	1	Dx Rh	6	Positiva / Positive
A2036	006	46189	8	22	80	1	Dx Rh	8	Positiva / Positive
A2036	007	46190	8	32	80	1	Dx Rh	8	Positiva / Positive
A2036	008	46191	10	32	80	1	Dx Rh	10	Positiva / Positive
A2036	009	46192	10	42	100	1	Dx Rh	10	Positiva / Positive
A2036	010	46193	12	32	80	1	Dx Rh	12	Positiva / Positive
A2036	011	46194	12	42	100	1	Dx Rh	12	Positiva / Positive
A2036	012	46195	12	52	100	1	Dx Rh	12	Positiva / Positive
A2036	013	46196	14	42	100	1	Dx Rh	14	Positiva / Positive
A2036	014	46197	14	52	100	1	Dx Rh	14	Positiva / Positive
A2036	101	46198	3	12	40	1	Sx Lh	3	Positiva / Positive
A2036	102	46199	4	12	50	1	Sx Lh	4	Positiva / Positive
A2036	103	46200	5	17	50	1	Sx Lh	5	Positiva / Positive
A2036	104	46201	6	17	60	1	Sx Lh	6	Positiva / Positive
A2036	105	46202	6	27	60	1	Sx Lh	6	Positiva / Positive
A2036	106	46203	8	22	80	1	Sx Lh	8	Positiva / Positive
A2036	107	46204	8	32	80	1	Sx Lh	8	Positiva / Positive
A2036	108	46205	10	32	80	1	Sx Lh	10	Positiva / Positive
A2036	109	46206	10	42	100	1	Sx Lh	10	Positiva / Positive
A2036	110	46207	12	32	80	1	Sx Lh	12	Positiva / Positive
A2036	111	46208	12	42	100	1	Sx Lh	12	Positiva / Positive
A2036	112	46209	12	52	100	1	Sx Lh	12	Positiva / Positive
A2036	113	46210	14	42	100	1	Sx Lh	14	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	GT
A2036	114	46211	14	52	100	1	Sx Lh	14	Positiva / Positive

PLASTIC



## A2037

Punte elicoidali in hw (hm integrale) z=1 per  
plastica elica 25 gradi

*Hw (integral tungsten carbide) helical router bits  
z=1 for plastic helix 25 grades*

### MATERIALE LAVORATO / MATERIALS

plastica  
*plastic*

### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2037	001	46212	3	12	40	1	Dx Rh	3	25	Positiva / Positive
A2037	002	46213	4	12	50	1	Dx Rh	4	25	Positiva / Positive
A2037	003	46214	5	17	50	1	Dx Rh	5	25	Positiva / Positive
A2037	004	46215	6	17	60	1	Dx Rh	6	25	Positiva / Positive
A2037	005	46216	6	27	60	1	Dx Rh	6	25	Positiva / Positive
A2037	006	46217	8	22	80	1	Dx Rh	8	25	Positiva / Positive
A2037	007	46218	8	32	80	1	Dx Rh	8	25	Positiva / Positive
A2037	009	46220	10	42	100	1	Dx Rh	10	25	Positiva / Positive
A2037	010	46221	12	32	80	1	Dx Rh	12	25	Positiva / Positive
A2037	011	46222	12	42	100	1	Dx Rh	12	25	Positiva / Positive
A2037	012	46223	12	52	100	1	Dx Rh	12	25	Positiva / Positive
A2037	013	46224	14	42	100	1	Dx Rh	14	25	Positiva / Positive
A2037	014	46225	14	52	100	1	Dx Rh	14	25	Positiva / Positive
A2037	101	46226	3	12	40	1	Sx Lh	3	25	Positiva / Positive
A2037	102	46227	4	12	50	1	Sx Lh	4	25	Positiva / Positive
A2037	103	46228	5	17	50	1	Sx Lh	5	25	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2037	104	46229	6	17	60	1	Sx Lh	6	25	Positiva / Positive
A2037	105	46230	6	27	60	1	Sx Lh	6	25	Positiva / Positive
A2037	106	46231	8	22	80	1	Sx Lh	8	25	Positiva / Positive
A2037	107	46232	8	32	80	1	Sx Lh	8	25	Positiva / Positive
A2037	108	46233	10	32	80	1	Sx Lh	10	25	Positiva / Positive
A2037	109	46234	10	42	100	1	Sx Lh	10	25	Positiva / Positive
A2037	110	46235	12	32	80	1	Sx Lh	12	25	Positiva / Positive
A2037	111	46236	12	42	100	1	Sx Lh	12	25	Positiva / Positive
A2037	112	46237	12	52	100	1	Sx Lh	12	25	Positiva / Positive
A2037	113	46238	14	42	100	1	Sx Lh	14	25	Positiva / Positive
A2037	114	46239	14	52	100	1	Sx Lh	14	25	Positiva / Positive
A2037	201	46240	3	12	40	1	Dx Rh	3	25	Positiva / Positive
A2037	202	46241	4	12	50	1	Dx Rh	4	25	Positiva / Positive
A2037	203	46242	5	17	50	1	Dx Rh	5	25	Positiva / Positive
A2037	204	46243	6	17	60	1	Dx Rh	6	25	Positiva / Positive
A2037	205	46244	6	27	60	1	Dx Rh	6	25	Positiva / Positive
A2037	206	46245	8	22	80	1	Dx Rh	8	25	Positiva / Positive
A2037	207	46246	8	32	80	1	Dx Rh	8	25	Positiva / Positive
A2037	208	46247	10	32	80	1	Dx Rh	10	25	Positiva / Positive
A2037	209	46248	10	42	100	1	Dx Rh	10	25	Positiva / Positive
A2037	210	46249	12	32	80	1	Dx Rh	12	25	Positiva / Positive
A2037	211	46250	12	42	100	1	Dx Rh	12	25	Positiva / Positive
A2037	212	46251	12	52	100	1	Dx Rh	12	25	Positiva / Positive
A2037	213	46252	14	42	100	1	Dx Rh	14	25	Positiva / Positive
A2037	214	46253	14	52	100	1	Dx Rh	14	25	Positiva / Positive
A2037	301	46254	3	12	40	1	Sx Lh	3	25	Positiva / Positive
A2037	302	46255	4	12	50	1	Sx Lh	4	25	Positiva / Positive
A2037	303	46256	5	17	50	1	Sx Lh	5	25	Positiva / Positive
A2037	304	46257	6	17	60	1	Sx Lh	6	25	Positiva / Positive
A2037	305	46258	6	27	60	1	Sx Lh	6	25	Positiva / Positive
A2037	306	46259	8	22	80	1	Sx Lh	8	25	Positiva / Positive
A2037	307	46260	8	32	80	1	Sx Lh	8	25	Positiva / Positive
A2037	308	46261	10	32	80	1	Sx Lh	10	25	Positiva / Positive
A2037	309	46262	10	42	100	1	Sx Lh	10	25	Positiva / Positive

<b>ART</b>	<b>COD</b>	<b>DRW</b>	<b>D</b>	<b>B</b>	<b>LTT</b>	<b>Z</b>	<b>ROT</b>	<b>S</b>	<b>ALFA</b>	<b>GT</b>
A2037	310	46263	12	32	80	1	Sx Lh	12	25	Positiva / Positive
A2037	311	46264	12	42	100	1	Sx Lh	12	25	Positiva / Positive
A2037	312	46265	12	52	100	1	Sx Lh	12	25	Positiva / Positive
A2037	313	46266	14	42	100	1	Sx Lh	14	25	Positiva / Positive
A2037	314	46267	14	52	100	1	Sx Lh	14	25	Positiva / Positive



PLASTIC



## A2038

Punte elicoidali in hw (hm integrale) z=2 per  
plastica elica 25 gradi

*Hw (integral tungsten carbide) helical router bits  
z=2 for plastic helix 25 grades*

### MATERIALE LAVORATO / MATERIALS

plastica  
*plastic*

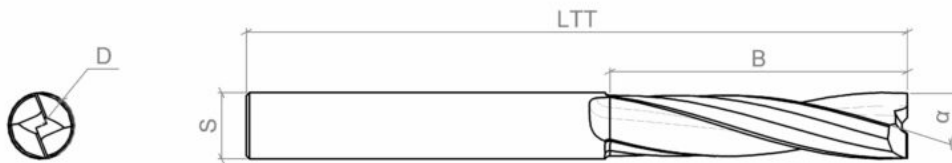
### IMPIEGO / FUNCTION

centro lavoro cnc  
*cnc router*

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2038	001	46268	3	12	40	2	Dx Rh	3	25	Positiva / Positive
A2038	002	46269	4	12	50	2	Dx Rh	4	25	Positiva / Positive
A2038	003	46270	5	17	50	2	Dx Rh	5	25	Positiva / Positive
A2038	004	46271	6	17	60	2	Dx Rh	6	25	Positiva / Positive
A2038	005	46272	6	27	60	2	Dx Rh	6	25	Positiva / Positive
A2038	006	46273	8	22	80	2	Dx Rh	8	25	Positiva / Positive
A2038	007	46274	8	32	80	2	Dx Rh	8	25	Positiva / Positive
A2038	008	46275	10	32	80	2	Dx Rh	10	25	Positiva / Positive
A2038	009	46276	10	42	100	2	Dx Rh	10	25	Positiva / Positive
A2038	010	46277	12	32	80	2	Dx Rh	12	25	Positiva / Positive
A2038	011	46278	12	42	100	2	Dx Rh	12	25	Positiva / Positive
A2038	012	46279	12	52	100	2	Dx Rh	12	25	Positiva / Positive
A2038	013	46280	14	42	100	2	Dx Rh	14	25	Positiva / Positive
A2038	014	46281	14	52	100	2	Dx Rh	14	25	Positiva / Positive
A2038	101	46282	3	12	40	2	Sx Lh	3	25	Positiva / Positive
A2038	102	46283	4	12	50	2	Sx Lh	4	25	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2038	103	46284	5	17	50	2	Sx Lh	5	25	Positiva / Positive
A2038	104	46285	6	17	60	2	Sx Lh	6	25	Positiva / Positive
A2038	105	46286	6	27	60	2	Sx Lh	6	25	Positiva / Positive
A2038	106	46287	8	22	80	2	Sx Lh	8	25	Positiva / Positive
A2038	107	46288	8	32	80	2	Sx Lh	8	25	Positiva / Positive
A2038	108	46289	10	32	80	2	Sx Lh	10	25	Positiva / Positive
A2038	109	46290	10	42	100	2	Sx Lh	10	25	Positiva / Positive
A2038	110	46291	12	32	80	2	Sx Lh	12	25	Positiva / Positive
A2038	111	46292	12	42	100	2	Sx Lh	12	25	Positiva / Positive
A2038	112	46293	12	52	100	2	Sx Lh	12	25	Positiva / Positive
A2038	113	46294	14	42	100	2	Sx Lh	14	25	Positiva / Positive
A2038	114	46295	14	52	100	2	Sx Lh	14	25	Positiva / Positive
A2038	201	46296	3	12	40	2	Dx Rh	3	25	Positiva / Positive
A2038	202	46297	4	12	50	2	Dx Rh	4	25	Positiva / Positive
A2038	203	46298	5	17	50	2	Dx Rh	5	25	Positiva / Positive
A2038	204	46299	6	17	60	2	Dx Rh	6	25	Positiva / Positive
A2038	205	46300	6	27	60	2	Dx Rh	6	25	Positiva / Positive
A2038	206	46301	8	22	80	2	Dx Rh	8	25	Positiva / Positive
A2038	207	46302	8	32	80	2	Dx Rh	8	25	Positiva / Positive
A2038	208	46303	10	32	80	2	Dx Rh	10	25	Positiva / Positive
A2038	209	46304	10	42	100	2	Dx Rh	10	25	Positiva / Positive
A2038	210	46305	12	32	80	2	Dx Rh	12	25	Positiva / Positive
A2038	211	46306	12	42	100	2	Dx Rh	12	25	Positiva / Positive
A2038	212	46307	12	52	100	2	Dx Rh	12	25	Positiva / Positive
A2038	213	46308	14	42	100	2	Dx Rh	14	25	Positiva / Positive
A2038	214	46309	14	52	100	2	Dx Rh	14	25	Positiva / Positive
A2038	301	46310	3	12	40	2	Sx Lh	3	25	Positiva / Positive
A2038	302	46311	4	12	50	2	Sx Lh	4	25	Positiva / Positive
A2038	303	46312	5	17	50	2	Sx Lh	5	25	Positiva / Positive
A2038	304	46313	6	17	60	2	Sx Lh	6	25	Positiva / Positive
A2038	305	46314	6	27	60	2	Sx Lh	6	25	Positiva / Positive
A2038	306	46315	8	22	80	2	Sx Lh	8	25	Positiva / Positive
A2038	307	46316	8	32	80	2	Sx Lh	8	25	Positiva / Positive
A2038	308	46317	10	32	80	2	Sx Lh	10	25	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2038	309	46318	10	42	100	2	Sx Lh	10	25	Positiva / Positive
A2038	310	46319	12	32	80	2	Sx Lh	12	25	Positiva / Positive
A2038	311	46320	12	42	100	2	Sx Lh	12	25	Positiva / Positive
A2038	312	46321	12	52	100	2	Sx Lh	12	25	Positiva / Positive
A2038	313	46322	14	42	100	2	Sx Lh	14	25	Positiva / Positive
A2038	314	46323	14	52	100	2	Sx Lh	14	25	Positiva / Positive

PLASTIC



## A2039

Punte elicoidali in hw (hm integrale) z=2 per  
plastica elica 35 gradi

*Hw (integral tungsten carbide) helical router bits  
z=2 for plastic helix 35 grades*

### MATERIALE LAVORATO / MATERIALS

plastica  
plastic

### IMPIEGO / FUNCTION

centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2039	001	46324	3	12	40	2	Dx Rh	3	35	Positiva / Positive
A2039	002	46325	4	12	50	2	Dx Rh	4	35	Positiva / Positive
A2039	003	46326	5	17	50	2	Dx Rh	5	35	Positiva / Positive
A2039	004	46327	6	17	60	2	Dx Rh	6	35	Positiva / Positive
A2039	005	46328	6	27	60	2	Dx Rh	6	35	Positiva / Positive
A2039	006	46329	8	22	80	2	Dx Rh	8	35	Positiva / Positive
A2039	007	46330	8	32	80	2	Dx Rh	8	35	Positiva / Positive
A2039	008	46331	10	32	80	2	Dx Rh	10	35	Positiva / Positive
A2039	009	46332	10	42	100	2	Dx Rh	10	35	Positiva / Positive
A2039	010	46333	12	32	80	2	Dx Rh	12	35	Positiva / Positive
A2039	011	46334	12	42	100	2	Dx Rh	12	35	Positiva / Positive
A2039	012	46335	12	52	100	2	Dx Rh	12	35	Positiva / Positive
A2039	013	46336	14	42	100	2	Dx Rh	14	35	Positiva / Positive
A2039	014	46337	14	52	100	2	Dx Rh	14	35	Positiva / Positive
A2039	101	46338	3	12	40	2	Sx Lh	3	35	Positiva / Positive
A2039	102	46339	4	12	50	2	Sx Lh	4	35	Positiva / Positive
A2039	103	46340	5	17	50	2	Sx Lh	5	35	Positiva / Positive
A2039	104	46341	6	17	60	2	Sx Lh	6	35	Positiva / Positive
A2039	105	46342	6	27	60	2	Sx Lh	6	35	Positiva / Positive
A2039	106	46343	8	22	80	2	Sx Lh	8	35	Positiva / Positive
A2039	107	46344	8	32	80	2	Sx Lh	8	35	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2039	108	46345	10	32	80	2	Sx Lh	10	35	Positiva / Positive
A2039	109	46346	10	42	100	2	Sx Lh	10	35	Positiva / Positive
A2039	110	46347	12	32	80	2	Sx Lh	12	35	Positiva / Positive
A2039	111	46348	12	42	100	2	Sx Lh	12	35	Positiva / Positive
A2039	112	46349	12	52	100	2	Sx Lh	12	35	Positiva / Positive
A2039	113	46350	14	42	100	2	Sx Lh	14	35	Positiva / Positive
A2039	114	46351	14	52	100	2	Sx Lh	14	35	Positiva / Positive
A2039	201	46352	3	12	40	2	Dx Rh	3	35	Positiva / Positive
A2039	202	46353	4	12	50	2	Dx Rh	4	35	Positiva / Positive
A2039	203	46354	5	17	50	2	Dx Rh	5	35	Positiva / Positive
A2039	204	46355	6	17	60	2	Dx Rh	6	35	Positiva / Positive
A2039	205	46356	6	27	60	2	Dx Rh	6	35	Positiva / Positive
A2039	206	46357	8	22	80	2	Dx Rh	8	35	Positiva / Positive
A2039	207	46358	8	32	80	2	Dx Rh	8	35	Positiva / Positive
A2039	208	46359	10	32	80	2	Dx Rh	10	35	Positiva / Positive
A2039	209	46360	10	42	100	2	Dx Rh	10	35	Positiva / Positive
A2039	210	46361	12	32	80	2	Dx Rh	12	35	Positiva / Positive
A2039	211	46362	12	42	100	2	Dx Rh	12	35	Positiva / Positive
A2039	212	46363	12	52	100	2	Dx Rh	12	35	Positiva / Positive
A2039	213	46364	14	42	100	2	Dx Rh	14	35	Positiva / Positive
A2039	214	46365	14	52	100	2	Dx Rh	14	35	Positiva / Positive
A2039	301	46366	3	12	40	2	Sx Lh	3	35	Positiva / Positive
A2039	302	46367	4	12	50	2	Sx Lh	4	35	Positiva / Positive
A2039	303	46368	5	17	50	2	Sx Lh	5	35	Positiva / Positive
A2039	304	46369	6	17	60	2	Sx Lh	6	35	Positiva / Positive
A2039	305	46370	6	27	60	2	Sx Lh	6	35	Positiva / Positive
A2039	306	46371	8	22	80	2	Sx Lh	8	35	Positiva / Positive
A2039	307	46372	8	32	80	2	Sx Lh	8	35	Positiva / Positive
A2039	308	46373	10	32	80	2	Sx Lh	10	35	Positiva / Positive
A2039	309	46374	10	42	100	2	Sx Lh	10	35	Positiva / Positive
A2039	310	46375	12	32	80	2	Sx Lh	12	35	Positiva / Positive
A2039	311	46376	12	42	100	2	Sx Lh	12	35	Positiva / Positive
A2039	312	46377	12	52	100	2	Sx Lh	12	35	Positiva / Positive
A2039	313	46378	14	42	100	2	Sx Lh	14	35	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2039	314	46379	14	52	100	2	Sx Lh	14	35	Positiva / Positive

FOAM



## A2040

Punte elicoidali in hw (hm integrale) z=1 per foam

*Hw (integral tungsten carbide) z1 router bits for foam*

### MATERIALE LAVORATO / MATERIALS

foam  
foam

### IMPIEGO / FUNCTION

centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Velocità di avanzamento: 2 - 8 m/min Velocità di rotazione 18 000 - 24 000 giri/min

*Feed rate: 2 - 8 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2040	001	91936	4	12	50	1	Dx Rh	4	15	Positiva / Positive
A2040	002	46382	5	17	50	1	Dx Rh	5	15	Positiva / Positive
A2040	003	46381	4	12	50	1	Dx Rh	4	15	Positiva / Positive
A2040	004	46384	6	27	60	1	Dx Rh	6	15	Positiva / Positive
A2040	005	46385	8	22	80	1	Dx Rh	8	15	Positiva / Positive
A2040	006	46386	8	32	80	1	Dx Rh	8	15	Positiva / Positive
A2040	007	46387	10	32	80	1	Dx Rh	10	15	Positiva / Positive
A2040	008	46388	10	42	100	1	Dx Rh	10	15	Positiva / Positive
A2040	009	46389	12	32	80	1	Dx Rh	12	15	Positiva / Positive
A2040	010	46390	12	42	100	1	Dx Rh	12	15	Positiva / Positive
A2040	011	46391	12	52	100	1	Dx Rh	12	15	Positiva / Positive
A2040	012	46392	14	42	100	1	Dx Rh	14	15	Positiva / Positive
A2040	013	46393	14	52	100	1	Dx Rh	14	15	Positiva / Positive
A2040	101	46395	4	12	50	1	Sx Lh	4	15	Positiva / Positive
A2040	102	46396	5	17	50	1	Sx Lh	5	15	Positiva / Positive
A2040	103	46397	6	17	60	1	Sx Lh	6	15	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2040	104	46398	6	27	60	1	Sx Lh	6	15	Positiva / Positive
A2040	105	46399	8	22	80	1	Sx Lh	8	15	Positiva / Positive
A2040	106	46400	8	32	80	1	Sx Lh	8	15	Positiva / Positive
A2040	107	46401	10	32	80	1	Sx Lh	10	15	Positiva / Positive
A2040	108	46402	10	42	100	1	Sx Lh	10	15	Positiva / Positive
A2040	109	46403	12	32	80	1	Sx Lh	12	15	Positiva / Positive
A2040	110	46404	12	42	100	1	Sx Lh	12	15	Positiva / Positive
A2040	111	46405	12	52	100	1	Sx Lh	12	15	Positiva / Positive
A2040	112	46406	14	42	100	1	Sx Lh	14	15	Positiva / Positive
A2040	113	46407	14	52	100	1	Sx Lh	14	15	Positiva / Positive



ALU



## A2042

Punte elicoidali in hw (hm integrale) z=1 per alluminio elica 30 gradi

*Hw (integral tungsten carbide) helical router bits z=1 for aluminium helix 30 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2042	001	46408	3	12	40	1	Dx Rh	3	30	Positiva / Positive
A2042	002	46409	4	12	50	1	Dx Rh	4	30	Positiva / Positive
A2042	003	46410	5	17	50	1	Dx Rh	5	30	Positiva / Positive
A2042	004	46411	6	17	60	1	Dx Rh	6	30	Positiva / Positive
A2042	005	46412	6	27	60	1	Dx Rh	6	30	Positiva / Positive
A2042	006	46413	8	22	80	1	Dx Rh	8	30	Positiva / Positive
A2042	007	46414	8	32	80	1	Dx Rh	8	30	Positiva / Positive
A2042	008	46415	10	32	80	1	Dx Rh	10	30	Positiva / Positive
A2042	009	46416	10	42	100	1	Dx Rh	10	30	Positiva / Positive
A2042	010	46417	12	32	80	1	Dx Rh	12	30	Positiva / Positive
A2042	011	46418	12	42	100	1	Dx Rh	12	30	Positiva / Positive
A2042	012	46419	12	52	100	1	Dx Rh	12	30	Positiva / Positive
A2042	013	46420	14	42	100	1	Dx Rh	14	30	Positiva / Positive
A2042	014	46421	14	52	100	1	Dx Rh	14	30	Positiva / Positive
A2042	101	46422	3	12	40	1	Sx Lh	3	30	Positiva / Positive
A2042	102	46423	4	12	50	1	Sx Lh	4	30	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2042	103	46424	5	17	50	1	Sx Lh	5	30	Positiva / Positive
A2042	104	46425	6	17	60	1	Sx Lh	6	30	Positiva / Positive
A2042	105	46426	6	27	60	1	Sx Lh	6	30	Positiva / Positive
A2042	106	46427	8	22	80	1	Sx Lh	8	30	Positiva / Positive
A2042	107	46428	8	32	80	1	Sx Lh	8	30	Positiva / Positive
A2042	108	46429	10	32	80	1	Sx Lh	10	30	Positiva / Positive
A2042	109	46430	10	42	100	1	Sx Lh	10	30	Positiva / Positive
A2042	110	46431	12	32	80	1	Sx Lh	12	30	Positiva / Positive
A2042	111	46432	12	42	100	1	Sx Lh	12	30	Positiva / Positive
A2042	112	46433	12	52	100	1	Sx Lh	12	30	Positiva / Positive
A2042	113	46434	14	42	100	1	Sx Lh	14	30	Positiva / Positive
A2042	114	46435	14	52	100	1	Sx Lh	14	30	Positiva / Positive

ALU



## A2043

Punte elicoidali in hw (hm integrale) z=1 per alluminio elica 45 gradi

*Hw (integral tungsten carbide) helical router bits z=1 for aluminium helix 45 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*



### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2043	001	46464	3	12	40	1	Dx Rh	3	45	Positiva / Positive
A2043	002	46465	4	12	50	1	Dx Rh	4	45	Positiva / Positive
A2043	003	46466	5	17	50	1	Dx Rh	5	45	Positiva / Positive
A2043	004	46467	6	17	60	1	Dx Rh	6	45	Positiva / Positive
A2043	005	46468	6	27	60	1	Dx Rh	6	45	Positiva / Positive
A2043	006	46469	8	22	80	1	Dx Rh	8	45	Positiva / Positive
A2043	007	46470	8	32	80	1	Dx Rh	8	45	Positiva / Positive
A2043	008	46471	10	32	80	1	Dx Rh	10	45	Positiva / Positive
A2043	009	46472	10	42	100	1	Dx Rh	10	45	Positiva / Positive
A2043	010	46473	12	32	80	1	Dx Rh	12	45	Positiva / Positive
A2043	011	46474	12	42	100	1	Dx Rh	12	45	Positiva / Positive
A2043	012	46475	12	52	100	1	Dx Rh	12	45	Positiva / Positive
A2043	101	46476	3	12	40	1	Sx Lh	3	45	Positiva / Positive
A2043	102	46477	4	12	50	1	Sx Lh	4	45	Positiva / Positive
A2043	103	46478	5	17	50	1	Sx Lh	5	45	Positiva / Positive
A2043	104	46479	6	17	60	1	Sx Lh	6	45	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2043	105	46480	6	27	60	1	Sx Lh	6	45	Positiva / Positive
A2043	106	46481	8	22	80	1	Sx Lh	8	45	Positiva / Positive
A2043	107	46482	8	32	80	1	Sx Lh	8	45	Positiva / Positive
A2043	108	46483	10	32	80	1	Sx Lh	10	45	Positiva / Positive
A2043	109	46484	10	42	100	1	Sx Lh	10	45	Positiva / Positive
A2043	110	46485	12	32	80	1	Sx Lh	12	45	Positiva / Positive
A2043	111	46486	12	42	100	1	Sx Lh	12	45	Positiva / Positive
A2043	112	46487	12	52	100	1	Sx Lh	12	45	Positiva / Positive

ALU



## A2044

Punte elicoidali in hw (hm integrale) z=2 per alluminio elica 30 gradi

*Hw (integral tungsten carbide) helical router bits z=2 for aluminium hhhhhhhhhhhelical 30 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2044	001	46488	3	12	40	2	Dx Rh	3	30	Positiva / Positive
A2044	002	46489	4	12	50	2	Dx Rh	4	30	Positiva / Positive
A2044	003	46490	5	17	50	2	Dx Rh	5	30	Positiva / Positive
A2044	004	46491	6	17	60	2	Dx Rh	6	30	Positiva / Positive
A2044	005	46492	6	27	60	2	Dx Rh	6	30	Positiva / Positive
A2044	006	46493	8	22	80	2	Dx Rh	8	30	Positiva / Positive
A2044	007	46494	8	32	80	2	Dx Rh	8	30	Positiva / Positive
A2044	008	46495	10	32	80	2	Dx Rh	10	30	Positiva / Positive
A2044	009	46496	10	42	100	2	Dx Rh	10	30	Positiva / Positive
A2044	010	46497	12	32	80	2	Dx Rh	12	30	Positiva / Positive
A2044	011	46498	12	42	100	2	Dx Rh	12	30	Positiva / Positive
A2044	012	46499	12	52	100	2	Dx Rh	12	30	Positiva / Positive
A2044	013	46500	14	42	100	2	Dx Rh	14	30	Positiva / Positive
A2044	014	46501	14	52	100	2	Dx Rh	14	30	Positiva / Positive
A2044	101	46502	3	12	40	2	Sx Lh	3	30	Positiva / Positive
A2044	102	46503	4	12	50	2	Sx Lh	4	30	Positiva / Positive
A2044	103	46504	5	17	50	2	Sx Lh	5	30	Positiva / Positive
A2044	104	46505	6	17	60	2	Sx Lh	6	30	Positiva / Positive
A2044	105	46506	6	27	60	2	Sx Lh	6	30	Positiva / Positive
A2044	106	46507	8	22	80	2	Sx Lh	8	30	Positiva / Positive
A2044	107	46508	8	32	80	2	Sx Lh	8	30	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2044	108	46509	10	32	80	2	Sx Lh	10	30	Positiva / Positive
A2044	109	46510	10	42	100	2	Sx Lh	10	30	Positiva / Positive
A2044	110	46511	12	32	80	2	Sx Lh	12	30	Positiva / Positive
A2044	111	46512	12	42	100	2	Sx Lh	12	30	Positiva / Positive
A2044	112	46513	12	52	100	2	Sx Lh	12	30	Positiva / Positive
A2044	113	46514	14	42	100	2	Sx Lh	14	30	Positiva / Positive
A2044	114	46515	14	52	100	2	Sx Lh	14	30	Positiva / Positive

ALU



## A2045

Punte elicoidali in hw (hm integrale) z=2 per alluminio elica 45 gradi

*Hw (integral tungsten carbide) helical router bits z=2 for aluminium hhhhhhhhhhhelical 45 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2045	001	46516	3	12	40	2	Dx Rh	3	45	Positiva / Positive
A2045	002	46517	4	12	50	2	Dx Rh	4	45	Positiva / Positive
A2045	003	46518	5	17	50	2	Dx Rh	5	45	Positiva / Positive
A2045	004	46519	6	17	60	2	Dx Rh	6	45	Positiva / Positive
A2045	005	46520	6	27	60	2	Dx Rh	6	45	Positiva / Positive
A2045	006	46521	8	22	80	2	Dx Rh	8	45	Positiva / Positive
A2045	007	46522	8	32	80	2	Dx Rh	8	45	Positiva / Positive
A2045	008	46523	10	32	80	2	Dx Rh	10	45	Positiva / Positive
A2045	009	46524	10	42	100	2	Dx Rh	10	45	Positiva / Positive
A2045	010	46525	12	32	80	2	Dx Rh	12	45	Positiva / Positive
A2045	011	46526	12	42	100	2	Dx Rh	12	45	Positiva / Positive
A2045	012	46527	12	52	100	2	Dx Rh	12	45	Positiva / Positive
A2045	013	46528	14	42	100	2	Dx Rh	14	45	Positiva / Positive
A2045	014	46529	14	52	100	2	Dx Rh	14	45	Positiva / Positive
A2045	101	46530	3	12	40	2	Sx Lh	3	45	Positiva / Positive
A2045	102	46531	4	12	50	2	Sx Lh	4	45	Positiva / Positive
A2045	103	46532	5	17	50	2	Sx Lh	5	45	Positiva / Positive
A2045	104	46533	6	17	60	2	Sx Lh	6	45	Positiva / Positive
A2045	105	46534	6	27	60	2	Sx Lh	6	45	Positiva / Positive
A2045	106	46535	8	22	80	2	Sx Lh	8	45	Positiva / Positive
A2045	107	46536	8	32	80	2	Sx Lh	8	45	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2045	108	46537	10	32	80	2	Sx Lh	10	45	Positiva / Positive
A2045	109	46538	10	42	100	2	Sx Lh	10	45	Positiva / Positive
A2045	110	46539	12	32	80	2	Sx Lh	12	45	Positiva / Positive
A2045	111	46540	12	42	100	2	Sx Lh	12	45	Positiva / Positive
A2045	112	46541	12	52	100	2	Sx Lh	12	45	Positiva / Positive
A2045	113	46542	14	42	100	2	Sx Lh	14	45	Positiva / Positive
A2045	114	46543	14	52	100	2	Sx Lh	14	45	Positiva / Positive



ALU



## A2046

Punte elicoidali in hw (hm integrale) z=2 testa sferica per alluminio

*Hw (integral tungsten carbide) helical router bits spherical z=2 for aluminium*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2046	001	46544	3	12	40	2	Dx Rh	3	30	Positiva / Positive
A2046	002	46545	4	12	50	2	Dx Rh	4	30	Positiva / Positive
A2046	003	46546	5	17	50	2	Dx Rh	5	30	Positiva / Positive
A2046	004	46547	6	17	60	2	Dx Rh	6	30	Positiva / Positive
A2046	005	46548	6	27	60	2	Dx Rh	6	30	Positiva / Positive
A2046	006	46549	8	22	80	2	Dx Rh	8	30	Positiva / Positive
A2046	007	46550	8	32	80	2	Dx Rh	8	30	Positiva / Positive
A2046	008	46551	10	32	80	2	Dx Rh	10	30	Positiva / Positive
A2046	009	46552	10	42	100	2	Dx Rh	10	30	Positiva / Positive
A2046	010	46553	12	32	80	2	Dx Rh	12	30	Positiva / Positive
A2046	011	46554	12	42	100	2	Dx Rh	12	30	Positiva / Positive
A2046	012	46555	12	52	100	2	Dx Rh	12	30	Positiva / Positive
A2046	013	46556	14	42	100	2	Dx Rh	14	30	Positiva / Positive
A2046	014	46557	14	52	100	2	Dx Rh	14	30	Positiva / Positive
A2046	101	46558	3	12	40	2	Sx Lh	3	30	Positiva / Positive
A2046	102	46559	4	12	50	2	Sx Lh	4	30	Positiva / Positive
A2046	103	46560	5	17	50	2	Sx Lh	5	30	Positiva / Positive
A2046	104	46561	6	17	60	2	Sx Lh	6	30	Positiva / Positive
A2046	105	46562	6	27	60	2	Sx Lh	6	30	Positiva / Positive
A2046	106	46563	8	22	80	2	Sx Lh	8	30	Positiva / Positive
A2046	107	46564	8	32	80	2	Sx Lh	8	30	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2046	108	46565	10	32	80	2	Sx Lh	10	30	Positiva / Positive
A2046	109	46566	10	42	100	2	Sx Lh	10	30	Positiva / Positive
A2046	110	46567	12	32	80	2	Sx Lh	12	30	Positiva / Positive
A2046	111	46568	12	42	100	2	Sx Lh	12	30	Positiva / Positive
A2046	112	46569	12	52	100	2	Sx Lh	12	30	Positiva / Positive
A2046	113	46570	14	42	100	2	Sx Lh	14	30	Positiva / Positive
A2046	114	46571	14	52	100	2	Sx Lh	14	30	Positiva / Positive

ALU



## A2047

Punte elicoidali in hw (hm integrale) z=3 per alluminio elica 30 gradi

*Hw (integral tungsten carbide) helical router bits z=3 for aluminium hhhhhhhhhhhelical 30 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2047	001	46572	3	12	40	3	Dx Rh	3	30	Positiva / Positive
A2047	002	46573	4	12	50	3	Dx Rh	4	30	Positiva / Positive
A2047	003	46574	5	17	50	3	Dx Rh	5	30	Positiva / Positive
A2047	004	46575	6	17	60	3	Dx Rh	6	30	Positiva / Positive
A2047	005	46576	6	27	60	3	Dx Rh	6	30	Positiva / Positive
A2047	006	46577	8	22	80	3	Dx Rh	8	30	Positiva / Positive
A2047	007	46578	8	32	80	3	Dx Rh	8	30	Positiva / Positive
A2047	008	46579	10	32	80	3	Dx Rh	10	30	Positiva / Positive
A2047	009	46580	10	42	100	3	Dx Rh	10	30	Positiva / Positive
A2047	010	46581	12	32	80	3	Dx Rh	12	30	Positiva / Positive
A2047	011	46582	12	42	100	3	Dx Rh	12	30	Positiva / Positive
A2047	012	46583	12	52	100	3	Dx Rh	12	30	Positiva / Positive
A2047	013	46584	14	42	100	3	Dx Rh	14	30	Positiva / Positive
A2047	014	46585	14	52	100	3	Dx Rh	14	30	Positiva / Positive
A2047	101	46586	3	12	40	3	Sx Lh	3	30	Positiva / Positive
A2047	102	46587	4	12	50	3	Sx Lh	4	30	Positiva / Positive
A2047	103	46588	5	17	50	3	Sx Lh	5	30	Positiva / Positive
A2047	104	46589	6	17	60	3	Sx Lh	6	30	Positiva / Positive
A2047	105	46590	6	27	60	3	Sx Lh	6	30	Positiva / Positive
A2047	106	46591	8	22	80	3	Sx Lh	8	30	Positiva / Positive
A2047	107	46592	8	32	80	3	Sx Lh	8	30	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2047	108	46593	10	32	80	3	Sx Lh	10	30	Positiva / Positive
A2047	109	46594	10	42	100	3	Sx Lh	10	30	Positiva / Positive
A2047	110	46595	12	32	80	3	Sx Lh	12	30	Positiva / Positive
A2047	111	46596	12	42	100	3	Sx Lh	12	30	Positiva / Positive
A2047	112	46597	12	52	100	3	Sx Lh	12	30	Positiva / Positive
A2047	113	46598	14	42	100	3	Sx Lh	14	30	Positiva / Positive
A2047	114	46599	14	52	100	3	Sx Lh	14	30	Positiva / Positive

ALU



## A2048

Punte elicoidali in hw (hm integrale) z=3 per alluminio elica 45 gradi

*Hw (integral tungsten carbide) helical router bits z=3 for aluminium hhhhhhhhhhhelical 45 grades*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2048	001	46600	3	12	40	3	Dx Rh	3	45	Positiva / Positive
A2048	002	46601	4	12	50	3	Dx Rh	4	45	Positiva / Positive
A2048	003	46602	5	17	50	3	Dx Rh	5	45	Positiva / Positive
A2048	004	46603	6	17	60	3	Dx Rh	6	45	Positiva / Positive
A2048	005	46604	6	27	60	3	Dx Rh	6	45	Positiva / Positive
A2048	006	46605	8	22	80	3	Dx Rh	8	45	Positiva / Positive
A2048	007	46606	8	32	80	3	Dx Rh	8	45	Positiva / Positive
A2048	008	46607	10	32	80	3	Dx Rh	10	45	Positiva / Positive
A2048	009	46608	10	42	100	3	Dx Rh	10	45	Positiva / Positive
A2048	010	46609	12	32	80	3	Dx Rh	12	45	Positiva / Positive
A2048	011	46610	12	42	100	3	Dx Rh	12	45	Positiva / Positive
A2048	012	46611	12	52	100	3	Dx Rh	12	45	Positiva / Positive
A2048	013	46612	14	42	100	3	Dx Rh	14	45	Positiva / Positive
A2048	014	46613	14	52	100	3	Dx Rh	14	45	Positiva / Positive
A2048	101	46614	3	12	40	3	Sx Lh	3	45	Positiva / Positive
A2048	102	46615	4	12	50	3	Sx Lh	4	45	Positiva / Positive
A2048	103	46616	5	17	50	3	Sx Lh	5	45	Positiva / Positive
A2048	104	46617	6	17	60	3	Sx Lh	6	45	Positiva / Positive
A2048	105	46618	6	27	60	3	Sx Lh	6	45	Positiva / Positive
A2048	106	46619	8	22	80	3	Sx Lh	8	45	Positiva / Positive
A2048	107	46620	8	32	80	3	Sx Lh	8	45	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2048	108	46621	10	32	80	3	Sx Lh	10	45	Positiva / Positive
A2048	109	46622	10	42	100	3	Sx Lh	10	45	Positiva / Positive
A2048	110	46623	12	32	80	3	Sx Lh	12	45	Positiva / Positive
A2048	111	46624	12	42	100	3	Sx Lh	12	45	Positiva / Positive
A2048	112	46625	12	52	100	3	Sx Lh	12	45	Positiva / Positive
A2048	113	46626	14	42	100	3	Sx Lh	14	45	Positiva / Positive
A2048	114	46627	14	52	100	3	Sx Lh	14	45	Positiva / Positive

ALU



## A2049

Punte elicoidali in hw (hm integrale) z=3 testa sferica for aluminium

*Hw (integral tungsten carbide) helical router bits spherical z=3 for aluminium*

**MATERIALE LAVORATO /  
MATERIALS**  
alluminio  
aluminium

**IMPIEGO / FUNCTION**  
centro lavoro cnc  
cnc router

### DESCRIZIONE / DESCRIPTION

Per finitura, Velocità di avanzamento: 2 - 10 m/min di 18 000 - 24 000 giri/min

*Finishing operation. Feed rate: 2 - 10 m/min Speed rotation 18 000 - 24 000 RPM.*

### DATI TECNICI / TECHNICAL DATA

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2049	001	46628	3	12	40	3	Dx Rh	3	30	Positiva / Positive
A2049	002	46629	4	12	50	3	Dx Rh	4	30	Positiva / Positive
A2049	003	46630	5	17	50	3	Dx Rh	5	30	Positiva / Positive
A2049	004	46631	6	17	60	3	Dx Rh	6	30	Positiva / Positive
A2049	005	46632	6	27	60	3	Dx Rh	6	30	Positiva / Positive
A2049	006	46633	8	22	80	3	Dx Rh	8	30	Positiva / Positive
A2049	007	46634	8	32	80	3	Dx Rh	8	30	Positiva / Positive
A2049	008	46635	10	32	80	3	Dx Rh	10	30	Positiva / Positive
A2049	009	46636	10	42	100	3	Dx Rh	10	30	Positiva / Positive
A2049	010	46637	12	32	80	3	Dx Rh	12	30	Positiva / Positive
A2049	011	46638	12	42	100	3	Dx Rh	12	30	Positiva / Positive
A2049	012	46639	12	52	100	3	Dx Rh	12	30	Positiva / Positive
A2049	013	46640	14	42	100	3	Dx Rh	14	30	Positiva / Positive
A2049	014	46641	14	52	100	3	Dx Rh	14	30	Positiva / Positive
A2049	101	46642	3	12	40	3	Sx Lh	3	30	Positiva / Positive
A2049	102	46643	4	12	50	3	Sx Lh	4	30	Positiva / Positive
A2049	103	46644	5	17	50	3	Sx Lh	5	30	Positiva / Positive
A2049	104	46645	6	17	60	3	Sx Lh	6	30	Positiva / Positive
A2049	105	46646	6	27	60	3	Sx Lh	6	30	Positiva / Positive
A2049	106	46647	8	22	80	3	Sx Lh	8	30	Positiva / Positive
A2049	107	46648	8	32	80	3	Sx Lh	8	30	Positiva / Positive

ART	COD	DRW	D	B	LTT	Z	ROT	S	ALFA	GT
A2049	108	46649	10	32	80	3	Sx Lh	10	30	Positiva / Positive
A2049	109	46650	10	42	100	3	Sx Lh	10	30	Positiva / Positive
A2049	110	46651	12	32	80	3	Sx Lh	12	30	Positiva / Positive
A2049	111	46652	12	42	100	3	Sx Lh	12	30	Positiva / Positive
A2049	112	46653	12	52	100	3	Sx Lh	12	30	Positiva / Positive
A2049	113	46654	14	42	100	3	Sx Lh	14	30	Positiva / Positive
A2049	114	46655	14	52	100	3	Sx Lh	14	30	Positiva / Positive