

Router bits for aluminium and plastic working



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**SOLID CARBIDE SPIRAL BITS
DOWN CUT Z=1**
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**SOLID CARBIDE SPIRAL BITS
UP CUT Z=1**
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**SOLID CARBIDE SPIRAL BITS
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**SOLID CARBIDE SPIRAL BITS
UP CUT Z=1**
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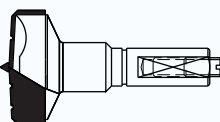
**SOLID CARBIDE SPIRAL BITS
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**HS UPCUT SPIRAL BITS FOR
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**HS DOUBLE DIAMETER SPIRAL BITS
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HS SPECIAL BITS FOR PVC Z=1
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**HS UPCUT SPIRAL CUTTERS FOR
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**HS DRILLING BITS FOR PVC AND
ALUMINIUM WORKING Z=2**
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Klein®

CLASSIFICATION OF PLASTIC MATERIALS

"Plastic" is a generic term used to indicate a type of material that can actually be constituted by an innumerable variety of combinations of polymer structures and sizes.

For this reason it is very hard to define precisely the working parameters (feed rates and RPM) of plastic materials.

Here some guidelines that can help:

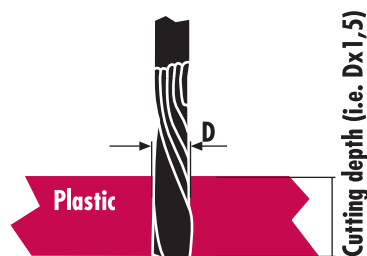
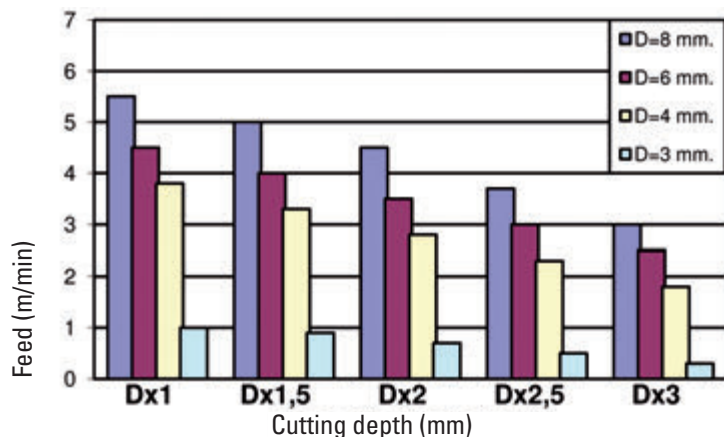
working with a CNC machine;

- use router bits Z=1 which allow a better chip flow, when working soft or flexible material;
- increase the chip load to avoid tool wear;

working with a table saw;

- use a sawblade with higher number of teeth when working hard materials.

Plastic working with a CNC machine, RPM =18.000, solid carbide router bit Z=1



The harder is the material, the higher is the tensile strength (MPa). Harder material is less elastic (%).

In this case it is recommended to use tools with higher number of teeth.

Reference table to identify the type of plastic processed and the right tool to use

Symbol	Abbreviation	Name	Tensile strength (MPa)	Elongation at rupture (%)	Some examples of use
01	PETE PET	Polyethylene Terephthalate orarnite	2300-10300	7	Plastic bottles, belts, pipes, etc.
01	POLYESTER	Polyethylene Terephthalate orarnite	2400	300	Home design (flooring and furniture coating), clothing, etc.
02	HDPE	High density Polyethylene	700-1400	15-100	Bottles, packaging, wood plastic composites, etc.
03	PVC V	Polyvinyl chloride	200-4200	2-30	Pipes, fencing, containers, etc.
04	LDPE	Low density Polyethylene	100-250	50-800	General purpose containers, aseptic packaging, etc.
05	PP	Polyethylene or Moplen	1350	150-600	Automotive industry and fibre production
06	PS	Polystyrene	2400-3350	1-4	Toys, office supplies, trays, videotapes, thermal insulation foam (Styrofoam™), etc.
07	METHYL METHACRYLATE RESIN	Synthetic polyamides	1500-3000	30-150	Furniture, flooring, clothing, etc.
07	FIBERGLASS	Synthetic polyamides	4500	40	Shipbuilding, aerospace and automotive industry, etc.

SOLID CARBIDE SPIRAL BITS DOWN CUT Z=1

ART. U101



- Right-hand rotation with "DOWN CUT SPIRAL"
- Polished cutting edge for improved chip evacuation
- Use on CNC and high speed machines
- For working plastic materials (thin prefinished panels, 3/4 mm.), PVC, HDPE, PET, acrylic materials and solid surface

RH rotation	D	B	L	S
U101.030.R NEW	3	15	50	3
U101.040.R	4	35	70	4
U101.041.R NEW	4	20	60	4
U101.050.R	5	35	70	5
U101.051.R NEW	5	25	60	5
U101.060.R	6	35	80	6
U101.061.R NEW	6	25	70	6
U101.080.R	8	35	80	8
U101.081.R NEW	8	25	70	8
U101.100.R	10	35	80	10
U101.101.R NEW	10	25	70	10
U101.120.R	12	35	80	12

SOLID CARBIDE SPIRAL BITS UP CUT Z=1

ART. U102

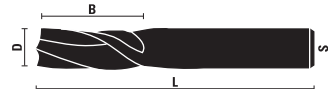


- Right-hand rotation with "UP CUT SPIRAL"
- Polished cutting edge for improved chip evacuation
- Use on CNC and high speed machines
- For working plastic materials, fiberglass, phenols materials and solid surface

RH rotation	D	B	L	S
U102.040.R NEW	4	35	70	4
U102.050.R NEW	5	35	70	5
U102.060.R NEW	6	35	80	6
U102.080.R NEW	8	35	80	8
U102.100.R NEW	10	35	80	10

SOLID CARBIDE SPIRAL BITS UP CUT Z=1 - Z=2

ART. U111 - U112



- Right-hand rotation with "UP CUT SPIRAL"
- Polished cutting edge for improved chip evacuation
- For working aluminium, fiberglass and phenols materials

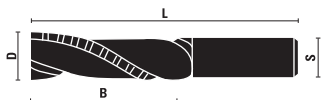
RH rotation	D	B	L	S	Z
U111.030.R	3	12	60	6	1
U111.040.R	4	12	60	6	1
U111.050.R	5	16	60	6	1
U111.060.R	6	16	60	6	1
U111.061.R NEW	6	35	80	6	1
U111.080.R	8	18	60	8	1
U111.081.R NEW	8	35	80	8	1
U111.100.R	10	22	70	10	1
U111.120.R	12	24	70	12	1
U112.040.R	4	10	60	6	2
U112.050.R	5	12	60	6	2
U112.060.R	6	15	60	6	2
U112.080.R	8	20	60	8	2
U112.100.R	10	22	70	10	2
U112.120.R	12	25	80	12	2
U112.140.R	14	25	80	14	2
U112.160.R	16	25	80	16	2

Router bits with diameter from 12 mm to 16 mm, are produced with shank fit for Seeger retaining rings



SOLID CARBIDE SPIRAL BITS DOWN CUT Z=2

ART. U120



- Right-hand rotation with "UP CUT SPIRAL"
- For working wood and aluminium material

RH rotation	D	B	L	S
U120.140.R	14	42	100	14
U120.160.R	16	42	100	16
U120.180.R	18	62	120	18
U120.200.R	20	62	120	20

Router bits with diameter from 14 mm to 20 mm, are produced with shank fit for Seeger retaining rings



KleinDIA

A surface treatment developed for large-scale production

KleinDIA is a DLC (**Diamond-like Carbon**) anti-friction coating which allows to solve problems of tool abrasion, chip evacuation and chemical attack.

A layer of apprx. 1 micron is laid on the tool surface at low temperature, thus not altering the properties of the router bit or knife. Its high hardness is granted by both Sp2 (**Graphite**) and Sp3 (**Diamond**) carbon hybridisation.

Our several tests confirmed remarkable results on both panel working and solid wood processing.

Working plastic and aluminium without coolant is also possible thanks to a very low friction coefficient.

TECHNICAL FEATURES:

- **High hardness** Hv0,025: 2500-3100
- **Higher wear resistance** (longer working time)
- **Low frictional coefficient** (lowered working temperature)
- **Very low sticking coefficient** (Better chips evacuation)
- **Thickness:** apprx. 1 micron
- **Colour:** bright black



KleinDIA is the most advantageous coating, ensuring:

- **Production increase**
- **Better finishing**
- **Less maintenance**

The surface coating **KleinDIA** can be applied on many other products giving extraordinary results depending on the type of material processed. Excellent results can be achieved processing solid wood, plywood, Plexiglas, plastic and graphitic materials.

HERE ARE SOME OF THE ITEMS WHICH ARE SUITABLE TO BE COATED WITH **KleinDIA**:

Solid carbide straight router bits
ART. A101/2/3 - C101/2/3 - C190 - D101/2



Page 1.07, 1.23, 2.05

Solid carbide spiral router bits
ART. T141/2/3 - T151/2/3 - T157/8/9



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Solid carbide dowel drills
ART. L116 - L117



Pag. 5.11

Solid carbide through-hole boring bits
ART. L134 - L135



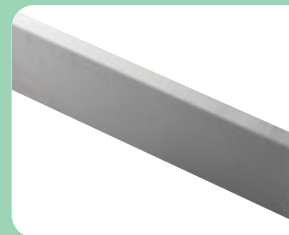
Pag. 5.12

HW reversible knives
ART. ZB



Pag. 11.10

HS planer knives
ART. ZC 30 - ZC 35

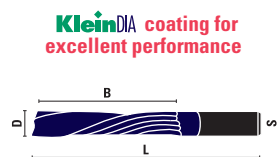


Pag. 11.11, 11.12, 11.13



SOLID CARBIDE SPIRAL BITS DOWN CUT Z=1

ART. U101

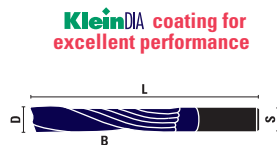


- Right-hand rotation with "DOWN CUT SPIRAL"
- Polished cutting edge for improved chip evacuation
- Use on CNC and high speed machines
- For working plastic materials (thin prefinished panels, 3/4 mm.), PVC, HDPE, PET, acrylic materials and solid surface

RH rotation	D	B	L	S
U101.030.RKD NEW	3	15	50	3
U101.040.RKD NEW	4	35	70	4
U101.041.RKD NEW	4	20	60	4
U101.050.RKD NEW	5	35	70	5
U101.051.RKD NEW	5	25	60	5
U101.060.RKD NEW	6	35	80	6
U101.061.RKD NEW	6	25	70	6
U101.080.RKD NEW	8	35	80	8
U101.081.RKD NEW	8	25	70	8
U101.100.RKD NEW	10	35	80	10
U101.101.RKD NEW	10	25	70	10
U101.120.RKD NEW	12	35	80	12

SOLID CARBIDE SPIRAL BITS UP CUT Z=1

ART. U102

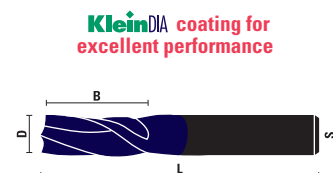


- Right-hand rotation with "UP CUT SPIRAL"
- Polished cutting edge for improved chip evacuation
- Use on CNC and high speed machines
- For working plastic materials, fiberglass, phenols materials and solid surface

RH rotation	D	B	L	S
U102.040.RKD NEW	4	35	70	4
U102.050.RKD NEW	5	35	70	5
U102.060.RKD NEW	6	35	80	6
U102.080.RKD NEW	8	35	80	8
U102.100.RKD NEW	10	35	80	10

SOLID CARBIDE SPIRAL BITS UP CUT Z=1-Z=2

ART. U111 - U112



- Right-hand rotation with "UP CUT SPIRAL"
- Polished cutting edge for improved chip evacuation
- For working aluminium, fiberglass and phenols materials

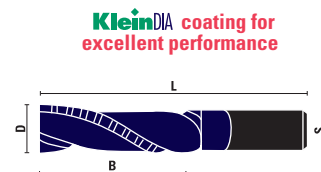
RH rotation	D	B	L	S	Z
U111.030.RKD NEW	3	12	60	6	1
U111.040.RKD NEW	4	12	60	6	1
U111.050.RKD NEW	5	16	60	6	1
U111.060.RKD NEW	6	16	60	6	1
U111.061.RKD NEW	6	35	80	6	1
U111.080.RKD NEW	8	18	60	8	1
U111.081.RKD NEW	8	35	80	8	1
U111.100.RKD NEW	10	22	70	10	1
U111.120.RKD NEW	12	24	70	12	1
U112.040.RKD NEW	4	10	60	6	2
U112.050.RKD NEW	5	12	60	6	2
U112.060.RKD NEW	6	15	60	6	2
U112.080.RKD NEW	8	20	60	8	2
U112.100.RKD NEW	10	22	70	10	2
U112.120.RKD NEW	12	25	80	12	2
U112.140.RKD NEW	14	25	80	14	2
U112.160.RKD NEW	16	25	80	16	2

Router bits with diameter from 12 mm to 16 mm, are produced with shank fit for Seeger retaining rings



SOLID CARBIDE SPIRAL BITS DOWN CUT Z=2

ART. U120



- Right-hand rotation with "UP CUT SPIRAL"
- For working wood and aluminium material

RH rotation	D	B	L	S
U120.140.RKD NEW	14	42	100	14
U120.160.RKD NEW	16	42	100	16
U120.180.RKD NEW	18	62	120	18
U120.200.RKD NEW	20	62	120	20

Router bits with diameter from 14 mm to 20 mm, are produced with shank fit for Seeger retaining rings



SOLID CARBIDE BITS FOR GLASS FIBER WORKING

ART. U130

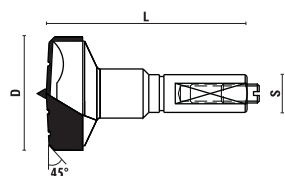


- Right-hand rotation
- For routing and shearing
- Use on portable machines, CNC and routing machines
- For working plastic materials, rubber and fiberglass

RH rotation	D	B	L	S
U130.030.R NEW	3	12	38	3
U130.040.R NEW	4	15	40	4
U130.050.R NEW	5	18	50	5
U130.060.R NEW	6	22	55	6
U130.080.R NEW	8	30	70	8
U130.100.R NEW	10	30	72	10
U130.120.R NEW	12	30	73	12

HW HINGE BORING BITS FOR ALUMINIUM Z=2

ART. U140



- Chip-breaker execution Z=2
- For working aluminium

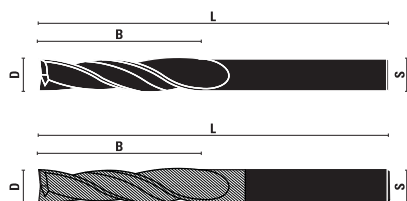
RH rotation	D	L	S	Rot.
U140.250.R NEW	25	57,5	10x26	Dx
U140.350.R NEW	35	57,5	10x26	Dx



Z051.302.R

SOLID CARBIDE SPIRAL BITS DOWN CUT Z=2

ART. U150

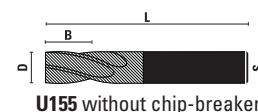


- "RT" with special coating **TICN** for working inox and ferrous materials
- Use on CNC machines
- For working **aluminum** and **ferrous materials**

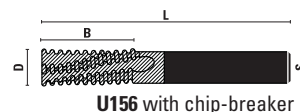
RH rotation	D	B	L	S
U150.060.R NEW	6	16	60	6
U150.080.R NEW	8	45	100	8
U150.100.R NEW	10	22	70	10
U150.060.RT NEW	6	16	60	6
U150.080.RT NEW	8	45	100	8
U150.100.RT NEW	10	22	70	10

SOLID CARBIDE SPIRAL BITS DOWN CUT Z=4

ART. U155 - U156



U155 without chip-breaker



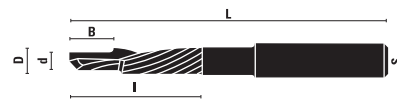
U156 with chip-breaker

- "RT" with special coating **"TINALOX"**
- Use on CNC machines
- For working **inox** and **ferrous materials**

RH rotation	D	B	L	S	Z
U155.060.RT NEW	6	15	60	6	4
U155.080.RT NEW	8	19	65	8	4
U156.060.RT NEW	6	21	60	6	4 chip-breaker
U156.080.RT NEW	8	25	70	8	4 chip-breaker

SOLID CARBIDE DOUBLE DIAMETER SPIRAL BITS Z=1

ART. U190

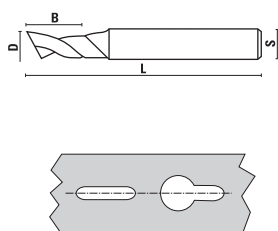


- Right-hand rotation with **"UP CUT SPIRAL"**
- Use on CNC machines
- For working **aluminum** and **ferrous materials**

RH rotation	d	D	B	I	L	S
U190.030.R NEW	3	8	5	30	80	8
U190.055.R NEW	5,5	8	10	25	100	8
U190.060.R NEW	6	11,5	10	40	100	12

HS UPCUT SPIRAL BITS FOR ALUMINIUM Z=1

ART. U201 - U211 - U221



- Manufactured in HS 5% cobalt
- Used for alu profiles
- Plunging and routing
- Use with lubricant

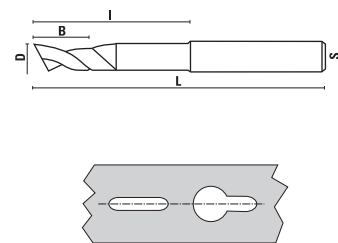
RH rotation	D	B	L	S	Z
U201.030.R	3	12	60	8	1
U201.040.R	4	12	60	8	1
U201.041.R	4	40	100	8	1
U201.042.R	4	12	100	8	1
U201.050.R	5	14	70	8	1
U201.051.R	5	40	100	8	1
U201.052.R	5	14	100	8	1
U201.053.R	5	14	120	8	1
U201.054.R	5	25	70	8	1
U201.055.R	5	25	100	8	1
U201.056.R	5	40	120	8	1
U201.060.R	6	14	70	8	1
U201.061.R	6	40	100	8	1
U201.062.R	6	14	100	8	1
U201.063.R	6	25	70	8	1
U201.070.R	7	14	70	8	1
U201.080.R	8	14	80	8	1
U201.081.R	8	30	100	8	1
U201.082.R	8	14	100	8	1
U201.083.R	8	14	120	8	1
U201.084.R	8	25	80	8	1
U201.085.R	8	25	120	8	1
U201.090.R	9	14	80	8	1
U201.100.R	10	14	80	8	1
U201.101.R	10	14	100	8	1
U201.102.R	10	14	120	8	1
U201.120.R	12	14	80	8	1

U211.030.R	3	12	60	6	1
U211.040.R	4	12	60	6	1
U211.050.R	5	14	60	6	1
U211.060.R	6	14	60	6	1
U211.061.R	6	27	70	6	1

U221.030.R	3	12	60	10	1
U221.040.R	4	12	60	10	1
U221.050.R	5	14	60	10	1
U221.060.R	6	14	60	10	1
U221.080.R	8	14	80	10	1
U221.100.R	10	14	80	10	1
U221.101.R	10	14	120	10	1
U221.120.R	12	14	80	10	1

HS UPCUT SPIRAL BITS FOR ALUMINIUM Z=1

ART. U202



- Manufactured in HS 5% cobalt
- Used for alu profiles
- Plunging and routing
- Use with lubricant
- Reduced throat execution

RH rotation	D	B/L	L	S	Z
U202.040.R	4	16/55	90	8	1
U202.050.R	5	14/35	80	8	1
U202.051.R	5	14/35	120	8	1
U202.052.R	5	16/55	90	8	1
U202.053.R	5	18/35	100	8	1
U202.054.R	5	20/45	100	8	1
U202.055.R NEW	5	20/55	80	10	1
U202.056.R NEW	5	20/55	100	10	1
U202.060.R	6	14/55	85	8	1
U202.061.R	6	14/35	80	8	1
U202.062.R	6	14/45	90	8	1
U202.063.R NEW	6	20/55	100	10	1
U202.080.R	8	14/60	80	8	1
U202.081.R	8	14/90	120	8	1
U202.082.R	8	14/70	100	8	1
U202.083.R	8	30/70	100	8	1
U202.100.R	10	14/60	80	10	1
U202.101.R	10	14/70	100	10	1
U202.102.R	10	14/95	120	10	1
U202.103.R	10	30/70	100	10	1

SET FOR ALU

ART. X015

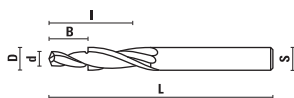


Wooden box

Item
X015.009.R
9-pcs set for alu:
U201.030.R
U201.040.R
U201.050.R
U201.060.R
U201.080.R
U201.100.R
U202.050.R
U202.060.R
U202.080.R

HS DOUBLE DIAMETER SPIRAL BITS FOR ALUMINIUM Z=2

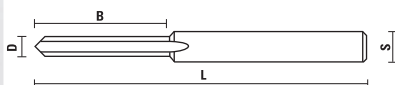
ART. U230



RH rotation	d/D	B/l	L	S
U230.030.R	3/6	8/15	60	6

HS SPECIAL BITS FOR PVC Z=1

ART. U240

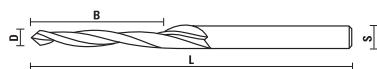


- Plunging
- For working PVC profiles on Elumec, Rotox, Striffler machines

RH rotation	D	B	L	S
U240.050.R	5	35	102	8
U240.051.R	5	45	102	8
U240.052.R	5	55	102	8
U240.060.R	6	30	102	8

HS SPECIAL BITS FOR PVC Z=2

ART. U241

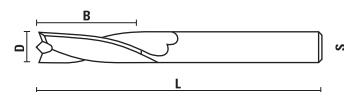


- Through hole execution
- For working PVC profiles on Elumec, Rotox, Striffler machines

RH rotation	D	B	L	S
U241.050.R	5	40	100	8

HS UPCUT SPIRAL CUTTERS FOR ALUMINIUM Z=2-Z=3

ART. U250

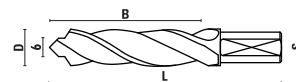


- Manufactured in HS 5% cobalt
- Use on CNC and milling machines
- For working **aluminum** and **ferrous materials**

RH rotation	D	B	L	S	Z
U250.040.R	4	12	63	6	2
U250.050.R	5	25	68	6	2
U250.060.R	6	25	68	6	2
U250.080.R	8	25	88	8	2
U250.100.R	10	35	95	10	2
U250.120.R	12	35	110	12	2
U250.140.R	14	37	110	14	3
U250.160.R	16	40	123	16	3
U250.180.R	18	40	123	18	3
U250.200.R	20	45	130	20	3

HS DRILLING BITS FOR PVC AND ALUMINIUM WORKING Z=2

ART. U260



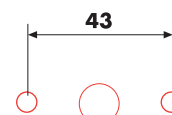
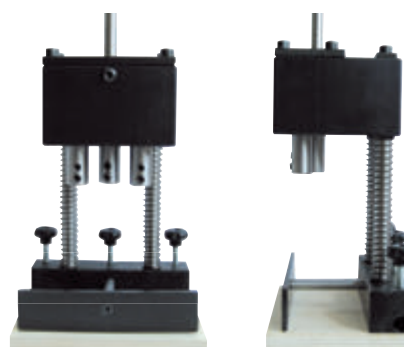
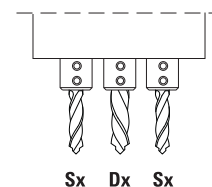
- To be used on our **Trimatic 43/0** boring jigs for mounting cremona bolt on **PVC** and/or **aluminium** doors and windows

RH rotation	LH rotation	D	B	L	S
	U260.080.L	8	50	76	10x20
	U260.100.L	10	50	76	10x20
U260.120.R	U260.120.L	12	50	76	10x20
U260.140.R		14	50	76	10x20

Some examples of drilling patterns

SIEGENIA-TRIAL		WEIDTMANN-KURLER	
U260.120.L	2	U260.100.L	2
U260.120.R	1	U260.140.R	1

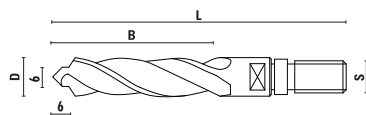
G-U JET77		OLIVEN	
U260.100.L	2	U260.080.L	2
U260.120.R	1	U260.120.R	1



Trimatic 43/0

HS DRILLING BITS FOR PVC AND ALUMINIUM WORKING Z=2

ART. U270

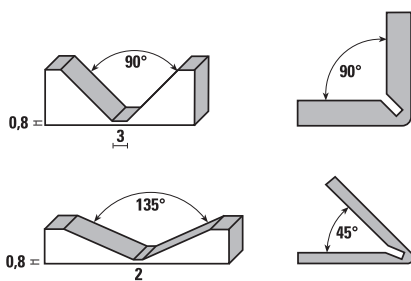
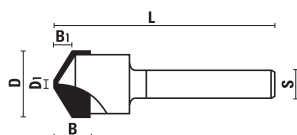


To produce holes for inserting handles on **PVC** and **aluminium** workpieces

RH rotation	LH rotation	D	B	L	S
	U270.080.L NEW	8	50	93	M10
	U270.100.L NEW	10	50	93	M10
	U270.120.L NEW	12	49	93	M10
U270.120.R NEW		12	55	98	M10
U270.140.R NEW		14	55	98	M10

HW DRILLS FOR WORKING ALUCOBOND® Z=2

ART. U180

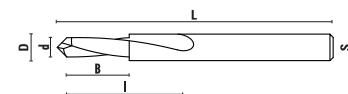


Grooves for folding **ALUCOBOND®**

S Ø 8	D	D1	α	B	B1	L
U180.090.R NEW	18	3	90°	10	8	60
U180.135.R NEW	18	2	135°	10	3,3	60

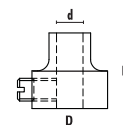
HS DRILLING BITS FOR ALUCOBOND® Z=2

ART. U280 - U281



For boring holes for rives **ALUCOBOND®**

RH rotation	d/D	B/l	L	S
U280.070.R NEW	5,1/7	16,5/14	73	9,5
U280.085.R NEW	5,1/8,5	16,5/14	73	9,5

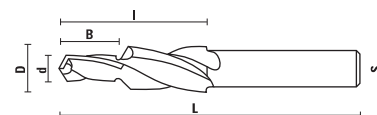


Reference setting jigs

RH rotation	d/D	L
U281.070.R NEW	7/20	20
U281.085.R NEW	8,5/20	20

HS DOUBLE DIAMETER SPIRAL BITS FOR ALUMINIUM Z=2

ART. U290 - U291

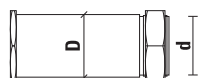


RH rotation	d/D	B/l	L	S
U290.055.R	5,5/11,5	12/35	100	10
U290.060.R	6/11,5	12/35	100	10
U290.061.R	6/12	15/35	80	10
U290.062.R	6/14	15/35	80	10
U290.065.R	6,5/13,5	15/35	100	10
U290.070.R	7/13	12/35	100	10
U290.071.R	7/14	12/35	100	10
U290.072.R	7/15	12/35	100	10
U290.080.R	8/15	12/35	100	10

U291.055.R	5,5/11,5	12/35	120	12
U291.060.R	6/12	12/35	100	12
U291.065.R	6,5/11,5	12/35	100	12
U291.066.R	6,5/12	18/45	120	12
U291.067.R	6,5/13,5	12/35	120	12
U291.085.R	8,5/14	12/35	100	12

HOLDING SLEEVES FOR MILLING CUTTER SETS WITH MANUAL INSERTION

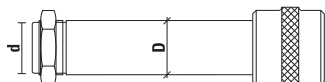
ART. YC 320



Item	D	d	Type
YC320.160	32	M16	Manual
YC320.220	32	M22	Manual
YC320.270	32	M27	Manual

QUICK CHANGE HOLDING SLEEVES FOR MILLING CUTTER SETS

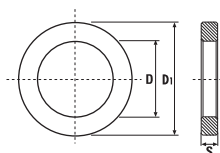
ART. YC 320



Item	D	d	Type
YC320.900	32	M30	quick change

SPACERS

ART. YD 320

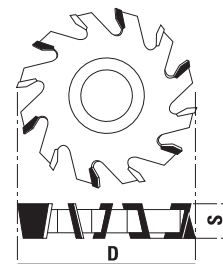


- Use with holding sleeves for aluminium working
- Burnished

Item	D	D1	S
YD320.003	32	45	0,3
YD320.005	32	45	0,5
YD320.010	32	45	1
YD320.020	32	45	2
YD320.050	32	42	5
YD320.100	32	42	10
YD320.150	32	42	15
YD320.200	32	42	20
YD320.300	32	42	30
YD320.400	32	42	40
YD320.500	32	42	50
YD320.600	32	42	60
YD320.800	32	42	80
YD320.900	32	42	90

HW ALTERNATE TOOTH MILLING CUTTERS

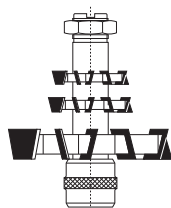
ART. YF 060÷YF120



Alternate teeth for better quality of cut

Item	D	S	F	Z
YF060.040	60	4	32	6
YF060.050	60	5	32	6
YF060.060	60	6	32	6
YF060.070	60	7	32	6
YF060.080	60	8	32	6
YF060.100	60	10	32	6
YF060.120	60	12	32	6
YF060.140	60	14	32	6
YF060.160	60	16	32	6
YF070.040	70	4	32	8
YF070.050	70	5	32	8
YF070.060	70	6	32	8
YF070.070	70	7	32	8
YF070.080	70	8	32	8
YF070.100	70	10	32	8
YF070.120	70	12	32	8
YF070.140	70	14	32	8
YF070.160	70	16	32	8
YF080.040	80	4	32	8
YF080.050	80	5	32	8
YF080.060	80	6	32	8
YF080.070	80	7	32	8
YF080.080	80	8	32	8
YF080.100	80	10	32	8
YF080.120	80	12	32	8
YF080.140	80	14	32	8
YF080.160	80	16	32	8
YF080.180	80	18	32	8
YF080.200	80	20	32	8
YF090.040	90	4	32	8
YF090.050	90	5	32	8
YF090.060	90	6	32	8
YF090.070	90	7	32	8
YF090.080	90	8	32	8
YF090.100	90	10	32	8
YF090.120	90	12	32	8
YF090.140	90	14	32	8
YF090.160	90	16	32	8
YF090.180	90	18	32	8
YF090.200	90	20	32	8
YF100.040	100	4	32	10
YF100.050	100	5	32	10
YF100.060	100	6	32	10
YF100.070	100	7	32	10
YF100.080	100	8	32	10
YF100.100	100	10	32	10
YF100.120	100	12	32	10
YF100.140	100	14	32	10
YF100.160	100	16	32	10
YF100.180	100	18	32	10
YF100.200	100	20	32	10
YF100.250	100	25	32	10
YF100.300	100	30	32	10
YF114.040	114	4	32	12
YF114.050	114	5	32	12
YF114.060	114	6	32	12
YF114.070	114	7	32	12
YF114.080	114	8	32	12
YF114.100	114	10	32	12
YF114.120	114	12	32	12
YF114.140	114	14	32	12
YF114.160	114	16	32	12
YF114.180	114	18	32	12
YF114.200	114	20	32	12
YF114.250	114	25	32	12
YF114.300	114	30	32	12
YF120.040	120	4	32	14
YF120.050	120	5	32	14
YF120.060	120	6	32	14
YF120.070	120	7	32	14
YF120.080	120	8	32	14
YF120.100	120	10	32	14
YF120.120	120	12	32	14
YF120.140	120	14	32	14
YF120.160	120	16	32	14
YF120.180	120	18	32	14
YF120.200	120	20	32	14
YF120.250	120	25	32	14
YF120.300	120	30	32	14

SPECIAL UNITS FOR ALUMINIUM-PROFILES

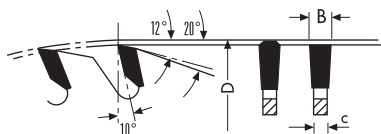


- PRODUCED ON REQUEST
- PLEASE SEND US YOUR INQUIRY WITH TECHNICAL INFORMATION RELATED

Item	Description
ART. YG 000	For alu-profiles "ALL. C0"
ART. YG 001	For alu-profiles "ALCAN"
ART. YG 002	For alu-profiles "EQUIPE"
ART. YG 003	For alu-profiles "ESA ALLUMINIO"
ART. YG 004	For alu-profiles "DOMAL SER. HYDRO ALLUMINIO"
ART. YG 005	For alu-profiles "INDIVEST / ALPHA"
ART. YG 006	For alu-profiles "JOINT (wood - alu)"
ART. YG 007	For alu-profiles "KIKAU"
ART. YG 008	For alu-profiles "METRA"
ART. YG 009	For alu-profiles "NEW"
ART. YG 010	For alu-profiles "OCMA"
ART. YG 011	For alu-profiles "GLOBAL"
ART. YG 012	For alu-profiles "PANDOLFO - SCHUKO"
ART. YG 013	For alu-profiles "PASSERINI"
ART. YG 014	For alu-profiles "RAI - ALLUMINIA"
ART. YG 015	For alu-profiles "TRAFILERIE EMILIANE"
ART. YG 016	For alu-profiles "ITAL - PLASTICK"

HW TRIMMING AND SIZING SAWBLADES

ART. FCS



- FZ/TR triple chip teeth trapezoidal
- For table saws
- Ideal for working **ALUCOBOND®**
- For cutting **hardwoods, double sided veneer and laminate board, MDF, hard paper and thermoplastic boards**
- Extra finish and long cutting life
- ♪ = no-noise
- HW grade: KCR06 (K01-C4)

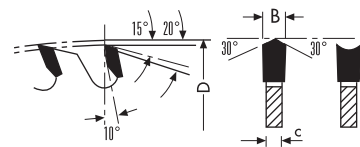
Pin holes: PH02= 2/7/42 + 2/9,5/46,5 + 2/10/60



Item	D	d	B/c	Z	Pin holes
FCS250.06030 ♪	250	30	3,2/2,2	60	PH02
FCS250.08030 ♪	250	30	3,2/2,2	80	PH02
FCS300.07230 ♪	300	30	3,2/2,2	72	PH02
FCS300.09630 ♪	300	30	3,2/2,2	96	PH02
FCS350.08430 ♪	350	30	3,5/2,5	84	PH02
FCS350.11230 ♪	350	30	3,5/2,5	108	PH02

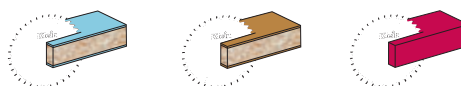
HW TRIMMING AND SIZING SAWBLADES

ART. FB



- HZ/DZ inverted "V" and hollow ground teeth
- For cutting boards with **synthetic resincoating, double sided veneer and laminate boards and plywood**
- For panel saws and table saws
- Extra finish and long cutting life
- HW grade: KCR06 (K01-C4)

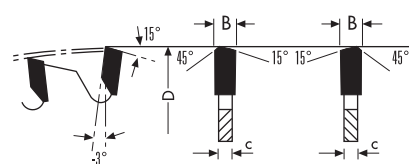
Pin holes: PH02= 2/7/42 + 2/9,5/46,5 + 2/10/60



Item	D	d	B/c	Z	Pin holes
FB220.04230	220	30	3,2/2,2	42	
FB253.04830	250	30	3,2/2,2	48	PH02
FB303.06030	300	30	3,2/2,2	60	PH02
FB350.07230	350	30	3,5/2,5	72	PH02

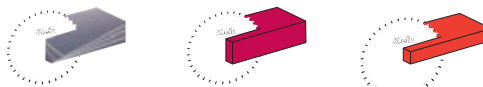
HW SAWBLADES FOR PVC AND PLEXIGLASS

ART. MGS



- WZ/FA alternate-trap, teeth
- 3° negative hook angle
- Suitable for **thin plastic, plexiglass, PVC and plywood**
- ♪ = **No-noise**
- HW grade: KCR06 (K01-C4)

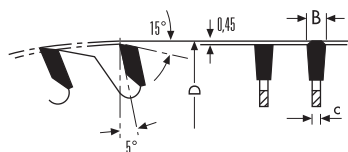
Pin holes: PH02= 2/7/42 + 2/9,5/46,5 + 2/10/60



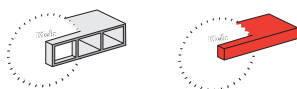
Item	D	d	B/c	Z	Pin holes
MGS250.08030 ♪	250	30	2,6/2,0	80	PH02
MGS300.08430 ♪	300	30	2,6/2,0	84	PH02
MGS300.09630 ♪	300	30	2,6/2,0	96	PH02

HW SAWBLADES FOR ALUMINIUM

ART. LB



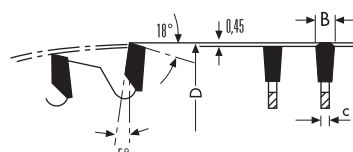
- FZ/TR triple chip teeth
- 5° positive hook angle
- For **Alu, PVC** and **non-ferrous metals**
- For table saws
- = **no-noise** with a special sound absorbing material inside of silent slots
- HW grade: HC10 (K10-C3)



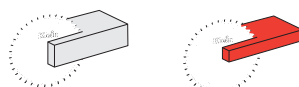
Item	D	d	B/c	Z	Pin holes
LA200.06430	200	30	3,2/2,6	64	2/11/63
LA200.06432	200	32	3,2/2,6	64	2/11/63
LA250.06030	250	30	3,4/2,6	60	2/11/63
LA250.06032	250	32	3,4/2,6	60	2/11/63
LA250.08030	250	30	3,4/2,6	80	2/11/63
LA250.08032	250	32	3,4/2,6	80	2/11/63
LA300.07230	300	30	3,4/2,6	72	2/11/63
LA300.07232	300	32	3,4/2,6	72	2/11/63
LA300.08430	300	30	3,4/2,6	84	2/11/63
LA300.08432	300	32	3,4/2,6	84	2/11/63
LA300.09630	300	30	3,4/2,6	96	2/11/63
LA300.09632	300	32	3,4/2,6	96	2/11/63
LA350.08430	350	30	3,4/2,6	84	2/11/63
LA350.08432	350	32	3,4/2,6	84	2/11/63
LA350.09630	350	30	3,4/2,6	96	2/11/63
LA350.09632	350	32	3,4/2,6	96	2/11/63
LA350.10830	350	30	3,4/2,6	108	2/11/63
LA350.10832	350	32	3,4/2,6	108	2/11/63
LA400.09630	400	30	4,0/3,2	96	2/11/63
LA400.09632	400	32	4,0/3,2	96	2/11/63
LA400.12030	400	30	4,0/3,2	120	2/11/63
LA400.12032	400	32	4,0/3,2	120	2/11/63
LA420.09632 NEW	420	32	4,0/3,2	96	2/11/63
LA450.09630	450	30	4,0/3,2	96	2/11/63
LA450.09632	450	32	4,0/3,2	96	2/11/63
LA450.10830	450	30	4,0/3,2	108	2/11/63
LA450.10832	450	32	4,0/3,2	108	2/11/63
LA500.12030	500	30	4,6/3,6	120	2/11/63
LA500.12032	500	32	4,6/3,6	120	2/11/63
LA500.12132 NEW	500	32	4,0/3,4	120	2/11/63
LA550.14030 NEW	550	30	4,6/3,6	140	2/11/63
LA600.14030 NEW	600	30	4,6/3,6	140	2/11/63

HW SAWBLADES FOR ALUMINIUM

ART. LB



- FZ/TR triple chip teeth
- 5° positive hook angle
- For **Alu, PVC** and **non-ferrous metals**
- For table saws
- = **no-noise** with a special sound absorbing material inside of silent slots
- HW grade: HC10 (K10-C3)



Item	D	d	B/c	Z	Pin holes
LB200.06430	200	30	3,2/2,6	64	2/11/63
LB200.06432	200	32	3,2/2,6	64	2/11/63
LB250.06030	250	30	3,4/2,6	60	2/11/63
LB250.08030	250	30	3,4/2,6	80	2/11/63
LB250.08032	250	32	3,4/2,6	80	2/11/63
LB300.07230	300	30	3,4/2,6	72	2/11/63
LB300.08430	300	30	3,4/2,6	84	2/11/63
LB300.08432	300	32	3,4/2,6	84	2/11/63
LB300.09630	300	30	3,4/2,6	96	2/11/63
LB300.09632	300	32	3,4/2,6	96	2/11/63
LB350.08430	350	30	3,4/2,6	84	2/11/63
LB350.08432	350	32	3,4/2,6	84	2/11/63
LB350.09630	350	30	3,4/2,6	96	2/11/63
LB350.09632	350	32	3,4/2,6	96	2/11/63
LB350.10830	350	30	3,4/2,6	108	2/11/63
LB350.10832	350	32	3,4/2,6	108	2/11/63
LB400.09630	400	30	4,0/3,2	96	2/11/63
LB400.09632	400	32	4,0/3,2	96	2/11/63
LB400.12030	400	30	4,0/3,2	120	2/11/63
LB400.12032	400	32	4,0/3,2	120	2/11/63
LB450.09630	450	30	4,0/3,2	96	2/11/63
LB450.09632	450	32	4,0/3,2	96	2/11/63
LB450.10830	450	30	4,0/3,2	108	2/11/63
LB450.10832	450	32	4,0/3,2	108	2/11/63
LB500.12030	500	30	4,6/3,6	120	2/11/63
LB500.12032	500	32	4,6/3,6	120	2/11/63
LB550.14030 NEW	550	30	4,6/3,6	140	2/11/63
LB600.14030 NEW	600	30	4,6/3,6	140	2/11/63

RPM suggested referred to the blade diameter

