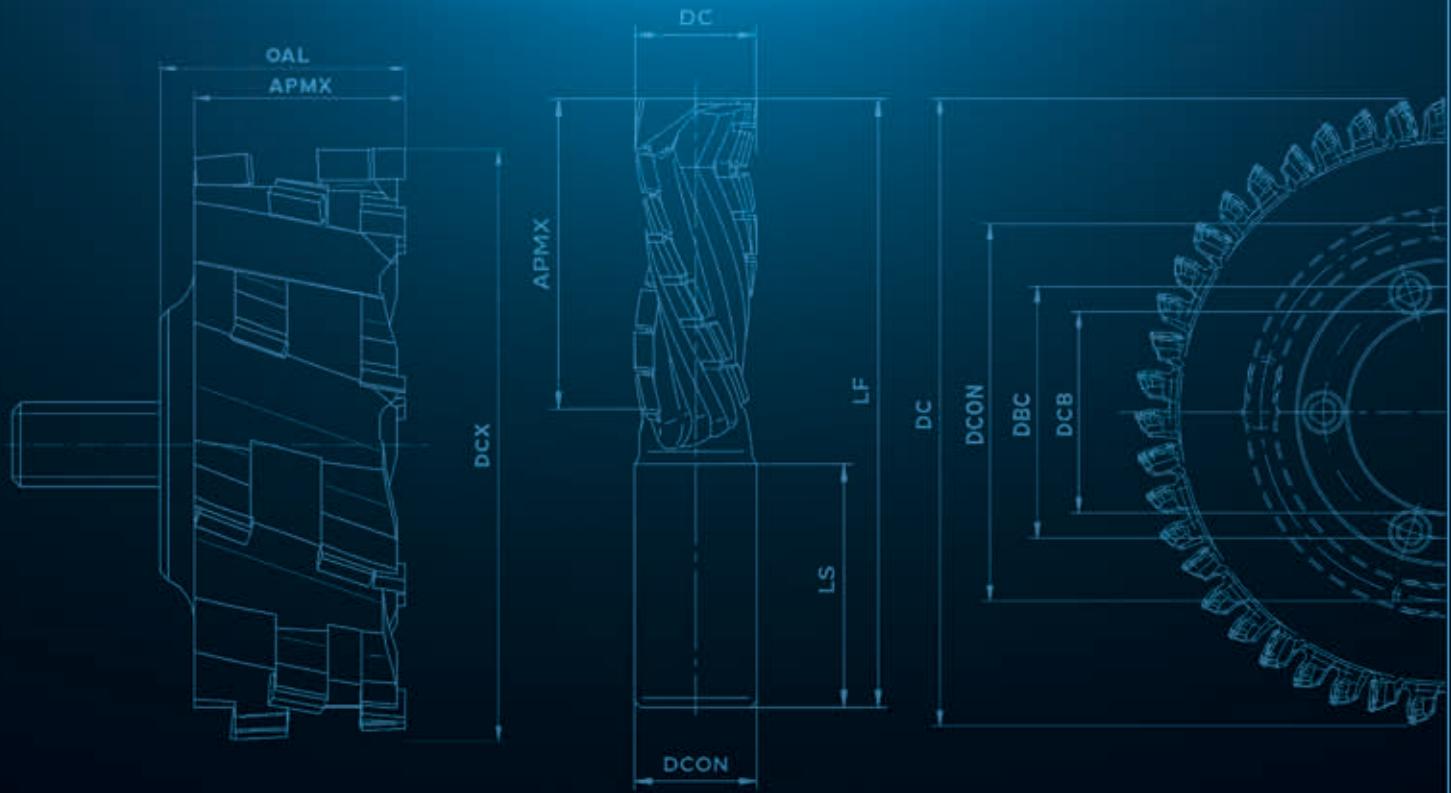


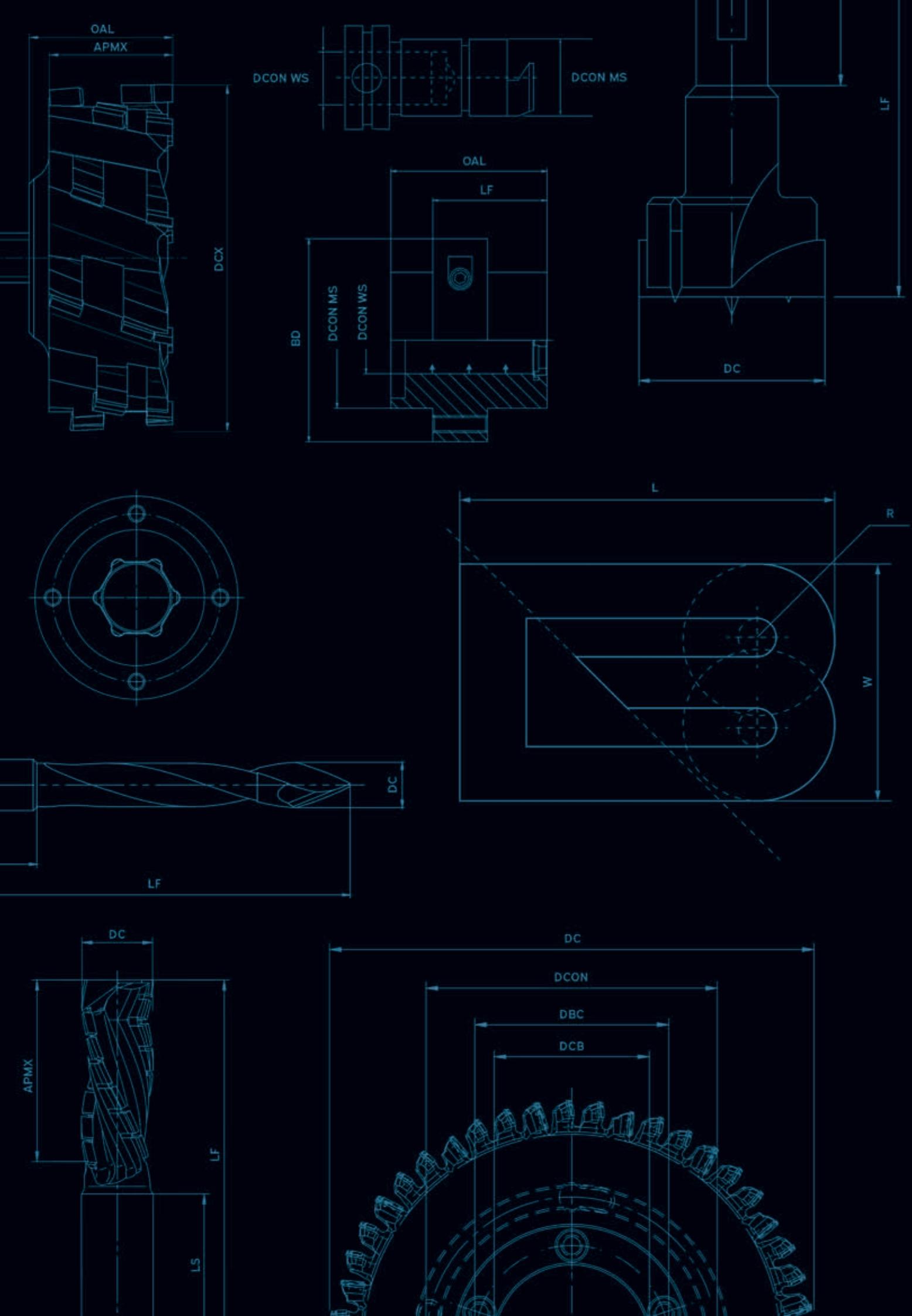


**BRYK**

CATALOGUE  
OF TOOLING SOLUTIONS



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# INTRODUCTION

Dear Customer,

We give you a new catalog of our tooling solutions. In its preparation, we relied on the experience in the production and servicing of tools, which we have gained since 2000. As a result of the involvement of our customers and the information they provide, we believe that the assortment presented in this material will enable you to choose the solutions that guarantee optimal use of your manufacturing capabilities.

Our mission, and simultaneously the direction in which we are heading, is optimizing the manufacturing processes by provision of comprehensive tooling solutions that guarantee the safety and the highest quality for our partners, and we implement the assumed mission with means of the customer-oriented dialogue. As a result of consequence in action, we create efficient and durable diamond tools as well as tools made of sintered carbide, which are successfully used in the furniture industry, as well as in the aviation and automotive industries.

We achieve remarkable results and operate successfully on several markets, constantly expanding the group of our clients, while remaining a company with 100% Polish capital. It results from the environment of passionate people, who primarily create solutions when making new tools and with continuous improvements, instead of the repetitive production processes.

We are constantly developing our products and methods of operation, as well as we are looking for new solutions that will help others do what they do best with means of our products. We create diversity, innovations and quality in the offered products.

You may familiarize yourself with our solutions and choose the ones that are the best for your business operation.

TEAM

BRYK

LEAVE A PRECISE MARK

# PANEL PROCESSING

# TECHNICAL SECTION SHREDDERS

**Description:**

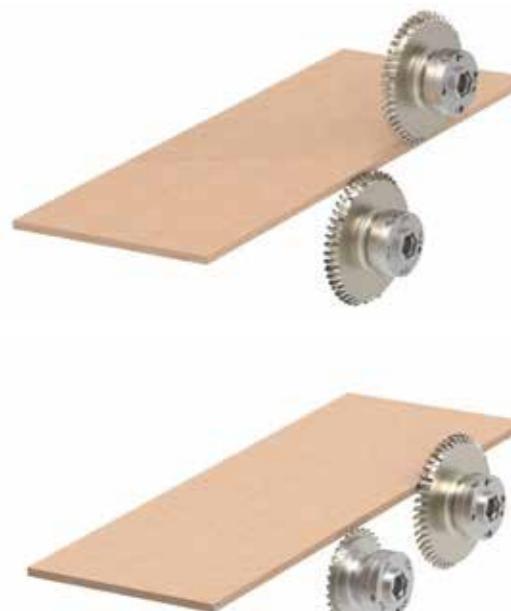
The shredding heads are designed to even out the side surface of the board, including the excess of veneer and to crush it into smaller particles, in order to allow its unobstructed removal to the chip extraction system.

**Machinery:**

Single and double-sided machine tools.

**Application:**

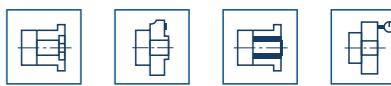
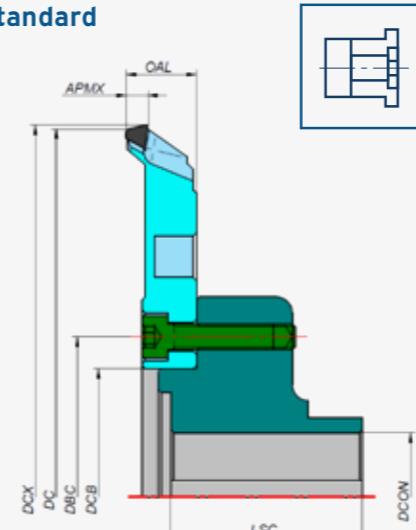
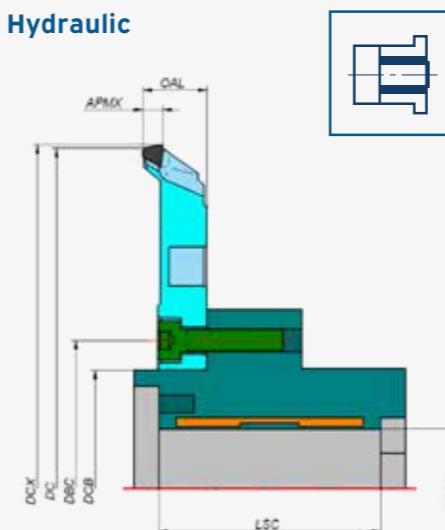
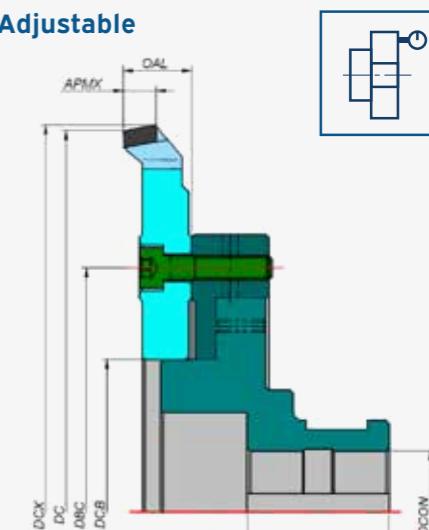
The shredding heads can operate in two systems:



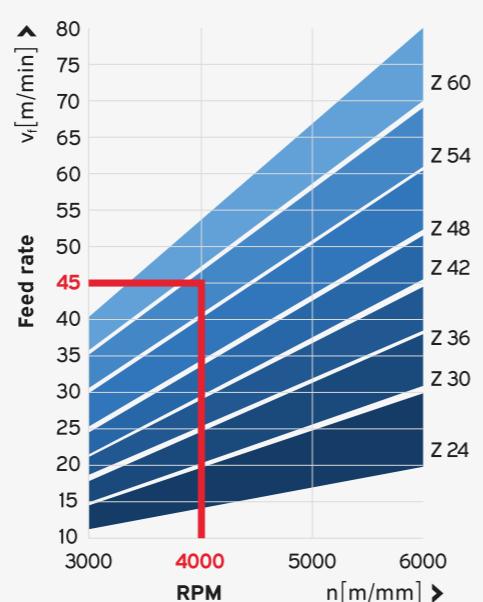
- **shredder/shredder** - in this case two concurrently operating heads are implemented, each of which collects about half of the excessive material. In this case, it is necessary to use a head adapted to the right and left revolutions of the machine.
- **shredder/undercutter** - in such a system, practically the entire excessive material is collected by one head, which cooperates with the undercutter positioned at the bottom with the purpose of cutting the veneer, thus eliminating its tearing off in the lower part of the board.

**Fixing:**

The shredders are mounted on the spindle of the machine with special holders. Depending on the needs, holder types are as follows:

**Standard****Quick replacement****Hydraulic****Adjustable****Technical information:**

Depending on the processed material, the veneer applied, the size of the excessive material as well as the desired quality or efficiency, the following ranges of feeds are used:



# TECHNICAL SECTION

## JOINTING CUTTERS

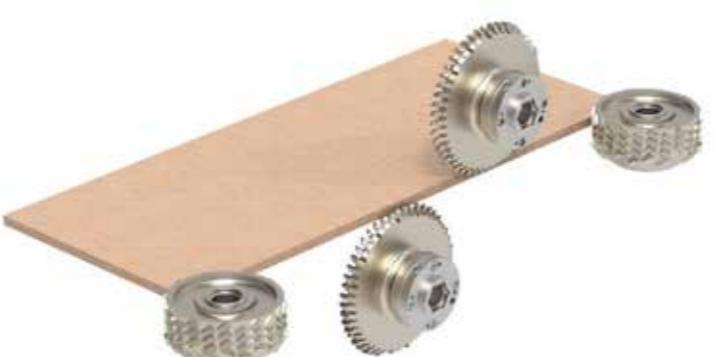
**Description:**

Arbor cutters are designed to even out the surfaces after cutting, and to smooth them at time of formatting. These cutters can operate counter-currently and concurrently (anti-tearing cutters). They are available in diameters from Ø60 to Ø200 mm.

Cutters with diameters up to Ø125 mm usually operate on one-sided edgebanders and are used to even out the surface after cutting. The allowance for this operation is up to 15 mm.

Cutters with a diameter of Ø180, Ø200 mm operate on veneering lines on both the first and the second member. These tools operate with formatting heads and are used to smooth the surface after formatting.

The allowance for smoothing is up to 2 mm.

**When it comes to the arrangement of teeth, tool alignment is divided into:**

- **Asymmetrical** - one tooth is cutting from the bottom of the tool and contributes to good quality of the cutting at the lower edge, and the remaining blades are arranged opposite to the cutting tooth and ensure proper quality on the upper edge of the workpiece. Cutters of this type are set on the machine once and when the height of the processed material is changed there is no need to adjust them. Tools with such a teeth arrangement have right or left direction of rotation.



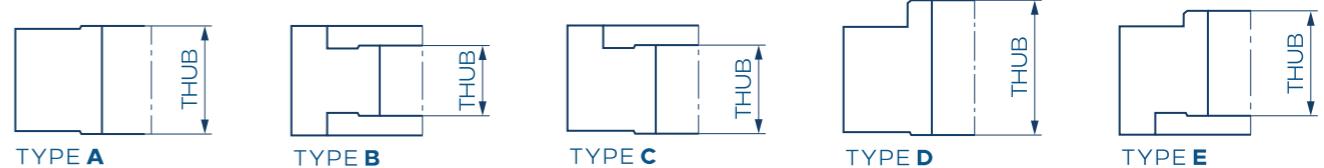
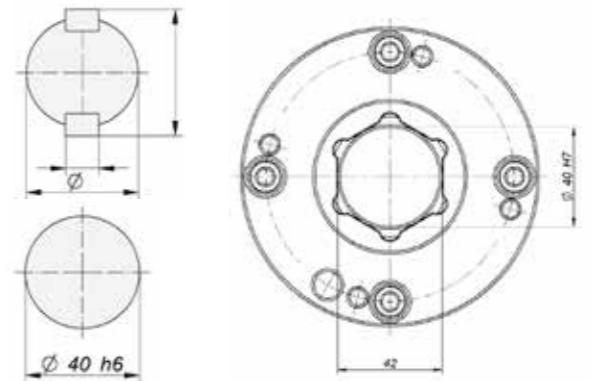
- **Symmetrical** - these tools are characterized by a symmetrical arrangement of the blades, cutters of this type must be positioned symmetrically to the thickness of the processed material, which means that its center must coincide with the center position in the thickness of the workpiece and when changing the height of the plate, the tool must be adjusted. Cutters of this type are universal and can be installed as right or left tool.

**In terms of the structure of their body, they are divided into:**

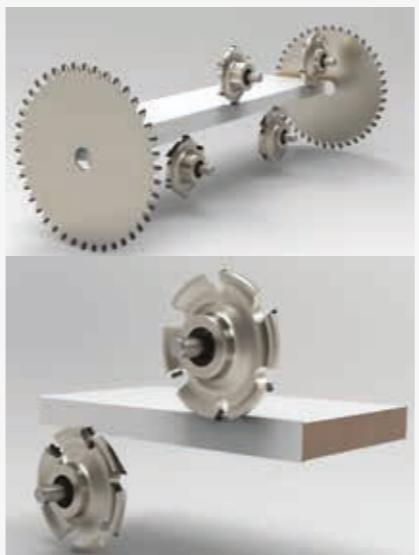
- **Solid** - solid body of the tool allows for many fixing solutions.

- **Foldable** - body composed of several elements mounted on the machine spindle. They are characterized by the extended service life in relation to solid tools, when they are properly used. These cutters cannot be used in all mounting options.

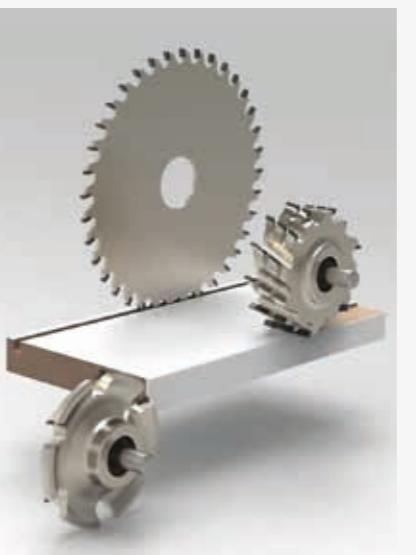
Depending on the needs, the tools are available with various mounting options, thus there is a possibility of homing connections (from A to E), as well as with means of mounting holes (from Ø16 to Ø80) for smooth holes and holes with keys, according to the PN-M-85005 standard. You may also mount the tools on a hydraulic chuck with a hexagonal seat (Hydro60).

**Veneering, edge processing**

Tools intended for finishing the glued edge. They are characterized by a constant reference diameter DC and a constant distance from the LU base. Cutters equipped with HSK25R and HSK32 adapters can be mounted on fixed and movable units. They profile the edge in various variants of radii and chamfers.

**POSTforming**

Tools intended for additional operations after formatting, coating the places such as recesses for decorative strips and handles, as well as grooving.

**Profiling**

The tools used for profiling the boards are available in various diameters and holder types adapted to individual orders. Cutters are used on one, two and four-sided machine tools. These tools work counter-currently, in order to maintain the best quality.





## FORMATECH FINISH

**Description:**

High-performance shredder with very good chip evacuation.

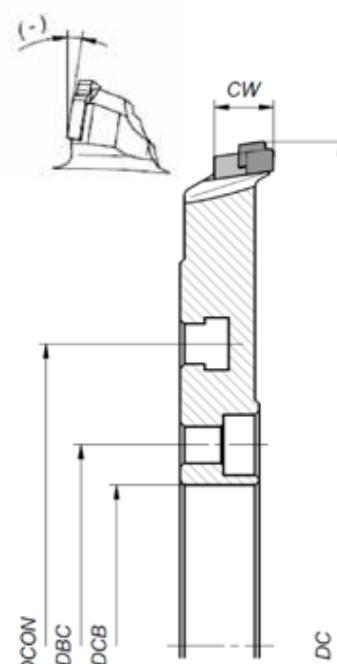
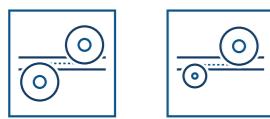
**Application:**

Used in the formatting of wood-based boards coated with paper, melamine, Hpl, foil and veneered.

**Information:**

FormatechFinish stands for high quality of the processing, very good chip evacuation and an extended service life, thanks to the optimized tooth shape. A tool for multiple sharpening. It operates in the shredder/shredder and undercutter / shredder system. Cutting forces are divided, from roughing to finishing operations. For processing of the boards from 8 mm.

\*Can be expanded to CW = 12.5mm



## DCB 60 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	60	100	130	36	GF01-2303660R   GF01-2303660L
230	8,5	60	100	130	42	GF01-2304260R   GF01-2304260L
230	8,5	60	100	130	48	GF01-2304860R   GF01-2304860L

## DCB 80 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	80	100	150	36	GF01-2503680R   GF01-2503680L
250	8,5	80	100	150	42	GF01-2504280R   GF01-2504280L
250	8,5	80	100	150	48	GF01-2504880R   GF01-2504880L

## DCB 60 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	60	100	130	36	GF01-2503660R   GF01-2503660L
250	8,5	60	100	130	42	GF01-2504260R   GF01-2504260L
250	8,5	60	100	130	48	GF01-2504860R   GF01-2504860L

## DCB 100 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	100	160		36	GF01-2303600R   GF01-2303600L
230	8,5	100	160		42	GF01-2304200R   GF01-2304200L
230	8,5	100	160		48	GF01-2304800R   GF01-2304800L

## DCB 100 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	100	160		36	GF01-2503600R   GF01-2503600L
250	8,5	100	160		42	GF01-2504200R   GF01-2504200L
250	8,5	100	160		48	GF01-2504800R   GF01-2504800L



## ACTIVE CUTTER

**Description:**

High-performance shredder with very good chip removal.

**Application:**

Formatting of wood-based boards coated with paper, melamine, Hpl, foil and veneer.

**Information:**

Active Cutter means high quality of machining, very good chip removal and an extended service life, thanks to the optimized shape of the tooth. These tools are for multiple sharpening. It is distinguished by lower cutting resistance, as a result of the positive rake angle. It can operate in a shredder/shredder and undercutter/shredder system. For processing of the boards from 8 mm.

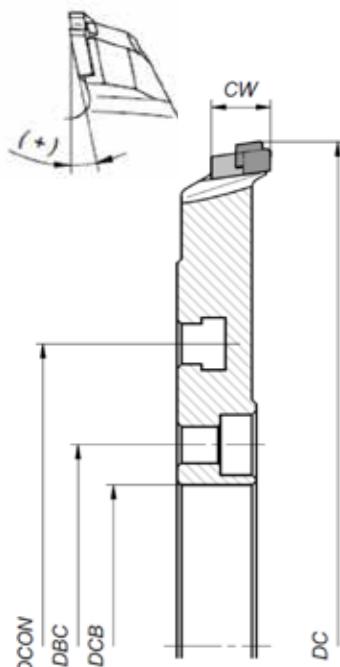
\*Can be expanded to CW = 12.5mm



## DCB 60 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	60	100	130	36	GF05-2303660R   GF05-2303660L
230	8,5	60	100	130	42	GF05-2304260R   GF05-2304260L
230	8,5	60	100	130	48	GF05-2304860R   GF05-2304860L



## DCB 60 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	60	100	130	36	GF05-2503660R   GF05-2503660L
250	8,5	60	100	130	42	GF05-2504260R   GF05-2504260L
250	8,5	60	100	130	48	GF05-2504860R   GF05-2504860L

\*Can be expanded to CW = 12.5mm

## DCB 80 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	80	100	150	36	GF05-2303680R   GF05-2303680L
230	8,5	80	100	150	42	GF05-2304280R   GF05-2304280L
230	8,5	80	100	150	48	GF05-2304880R   GF05-2304880L

## DCB 80 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	80	100	150	36	GF05-2503680R   GF05-2503680L
250	8,5	80	100	150	42	GF05-2504280R   GF05-2504280L
250	8,5	80	100	150	48	GF05-2504880R   GF05-2504880L

## DCB 100 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	100	160		36	GF05-2303600R   GF05-2303600L
230	8,5	100	160		42	GF05-2304200R   GF05-2304200L
230	8,5	100	160		48	GF05-2304800R   GF05-2304800L

## DCB 100 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	100	160		36	GF05-2503600R   GF05-2503600L
250	8,5	100	160		42	GF05-2504200R   GF05-2504200L
250	8,5	100	160		48	GF05-2504800R   GF05-2504800L

**MULTIFLOW PRO****Description:**

Silent shredder with exceptional chip evacuation.

**Application:**

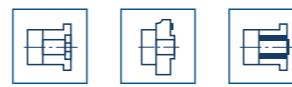
Formatting of wood-based boards coated with paper, melamine, Hpl, foil and veneer.

**Information:**

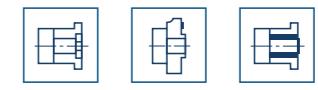
MultiflowPro means high stability provided by the tooth with an increasing bevel, it has very good shredding properties and the best chip evacuation, therefore it supports poor extraction systems. A constant blade height after maintenance is obtained, and noise is reduced, multiple sharpening is possible, as well as high cleanliness of the cutting zone. The best machining results are obtained with an allowance of 3mm. It is intended mainly for operation in a shredder/shredder system. For processing of the boards from 6 mm.



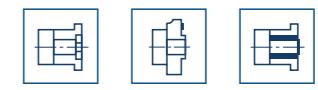
DP

**DCB 60 mm mounting hole**

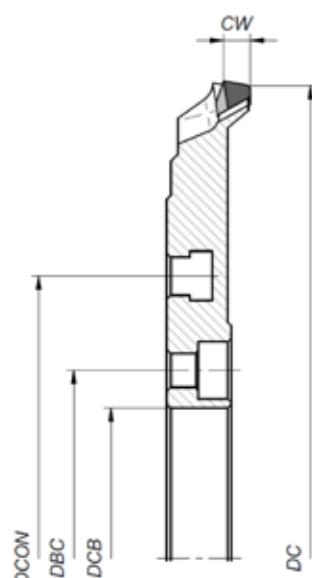
DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	7	60	100	130	36	GF06-2303660R GF06-2303660L
230	7	60	100	130	42	GF06-2304260R GF06-2304260L

**DCB 80 mm mounting hole**

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	7	60	100	130	36	GF06-2303680R GF06-2303680L
230	7	60	100	130	42	GF06-2304280R GF06-2304280L

**DCB 80 mm mounting hole**

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	7	80	100	150	36	GF06-2503680R GF06-2503680L
250	7	80	100	150	42	GF06-2504280R GF06-2504280L
250	7	80	100	150	48	GF06-2504880R GF06-2504880L

**DCB 100 mm mounting hole****DCB 60 mm mounting hole**

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	7	60	100	130	36	GF06-2503660R GF06-2503660L
250	7	60	100	130	42	GF06-2504260R GF06-2504260L
250	7	60	100	130	48	GF06-2504860R GF06-2504860L

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	7	100	160		36	GF06-2303600R GF06-2303600L
230	7	100	160		42	GF06-2304200R GF06-2304200L

**DCB 100 mm mounting hole**

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	7	100	160		36	GF06-2503600R GF06-2503600L
250	7	100	160		42	GF06-2504200R GF06-2504200L
250	7	100	160		48	GF06-2504800R GF06-2504800L



## GF04

## SOLUTIONTECH

**Description:**

A shredder ensuring a very good quality of the processed surface while maintaining long service life with good chip evacuation.

**Application:**

Formatting of wood-based boards coated with paper, melamine, Hpl, foil and veneer.

**Information:**

SolutionTech ensures high quality of processing and extended service life, thanks to the optimized shape of the tooth. Tools for multiple sharpening. The best machining results are achieved with allowances not exceeding 3mm. It is intended mainly to work in a shredder/shredder system. For processing of the boards from 12 mm.



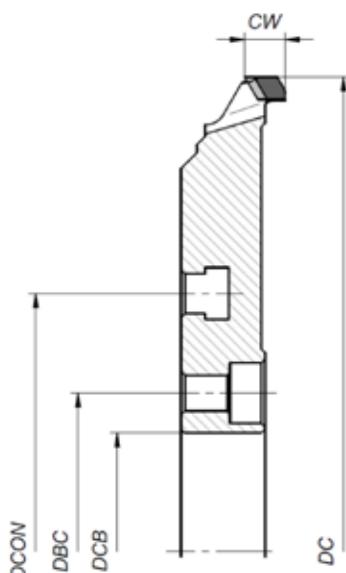
DP



## DCB 60 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	10	60	100	130	36	GF04-2303660R GF04-2303660L
230	10	60	100	130	42	GF04-2304260R GF04-2304260L
230	10	60	100	130	48	GF04-2304860R GF04-2304860L



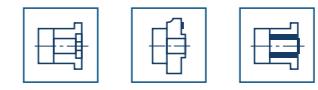
## DCB 60 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	10	60	100	130	36	GF04-2503660R GF04-2503660L
250	10	60	100	130	42	GF04-2504260R GF04-2504260L
250	10	60	100	130	48	GF04-2504860R GF04-2504860L



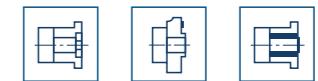
## DCB 80 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	10	80	100	150	36	GF04-2303680R GF04-2303680L
230	10	80	100	150	42	GF04-2304280R GF04-2304280L
230	10	80	100	150	48	GF04-2304880R GF04-2304880L



## DCB 80 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	10	80	100	150	36	GF04-2503680R GF04-2503680L
250	10	80	100	150	42	GF04-2504280R GF04-2504280L
250	10	80	100	150	48	GF04-2504880R GF04-2504880L



## DCB 100 mm mounting hole

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	10	100	160		36	GF04-2303600R GF04-2303600L
230	10	100	160		42	GF04-2304200R GF04-2304200L
230	10	100	160		48	GF04-2304800R GF04-2304800L



## DCB 100 mm mounting hole

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	10	100	160		36	GF04-2503600R GF04-2503600L
250	10	100	160		42	GF04-2504200R GF04-2504200L
250	10	100	160		48	GF04-2504800R GF04-2504800L



## GF03

## FORMAT ST203

**Description:**

Standard shredder with a wide range of applications, recommended mainly for processing the boards with large and uneven allowance of veneers (foil, paper).

**Application:**

Formatting of wood-based boards coated with paper, melamine, Hpl, foil and veneer.

**Information:**

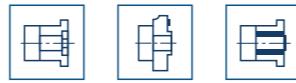
The ST203 format is characterized by high stability provided by the tooth with an increasing bevel, very good shredding properties and good chip evacuation. Tool for multiple sharpening. It is recommended when processing the materials with a large allowance of loose veneers. For processing of the boards from 6 mm.



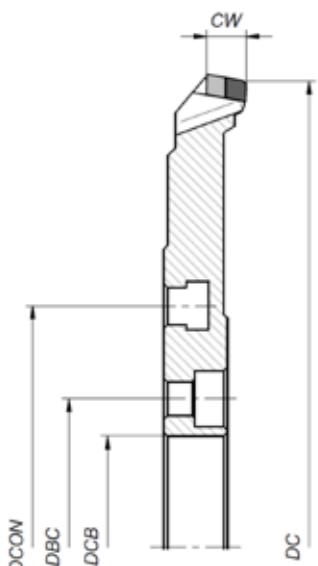
DP



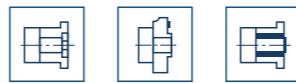
## DCB 60 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	11	60	100	130	36	GF03-2303660R GF03-2303660L
230	11	60	100	130	42	GF03-2304260R GF03-2304260L
230	11	60	100	130	48	GF03-2304860R GF03-2304860L

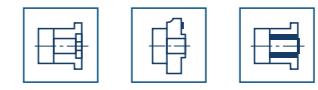


## DCB 60 mm mounting hole



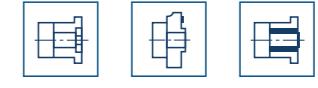
DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	11	60	100	130	36	GF03-2503660R GF03-2503660L
250	11	60	100	130	42	GF03-2504260R GF03-2504260L
250	11	60	100	130	48	GF03-2504860R GF03-2504860L
250	11	60	100	130	54	GF03-2505460R GF03-2505460L
250	11	60	100	130	60	GF03-2506060R GF03-2506060L

## DCB 80 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	11	80	100	150	36	GF03-2303680R GF03-2303680L
230	11	80	100	150	42	GF03-2304280R GF03-2304280L
230	11	80	100	150	48	GF03-2304880R GF03-2304880L

## DCB 80 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	11	80	100	150	36	GF03-2503680R GF03-2503680L
250	11	80	100	150	42	GF03-2504280R GF03-2504280L
250	11	80	100	150	48	GF03-2504880R GF03-2504880L
250	11	80	100	150	54	GF03-2505480R GF03-2505480L
250	11	80	100	150	60	GF03-2506060R GF03-2506060L

## DCB 100 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	11	100	160		36	GF03-2303600R GF03-2303600L
230	11	100	160		42	GF03-2304200R GF03-2304200L
230	11	100	160		48	GF03-2304800R GF03-2304800L

## DCB 100 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	11	100	160		36	GF03-2503600R GF03-2503600L
250	11	100	160		42	GF03-2504200R GF03-2504200L
250	11	100	160		48	GF03-2504800R GF03-2504800L
250	11	100	160		54	GF03-2505400R GF03-2505400L
250	11	100	160		60	GF03-2506000R GF03-2506000L



## GF02

## FORMAT ST202

**Description:**

Standard shredder with a wide range of applications, recommended mainly for processing chipboards with a small allowance.

**Application:**

Formatting of wood-based boards coated with paper, melamine, Hpl, foil and veneer.

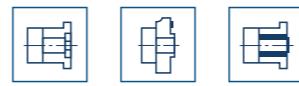
**Information:**

The ST202 format means high cutting capacity guaranteed by the tooth with a reduced bevel and good chip evacuation. Tool for multiple sharpening. It operates in a shredder/shredder and undercutter/shredder system. For processing of the boards from 8mm.

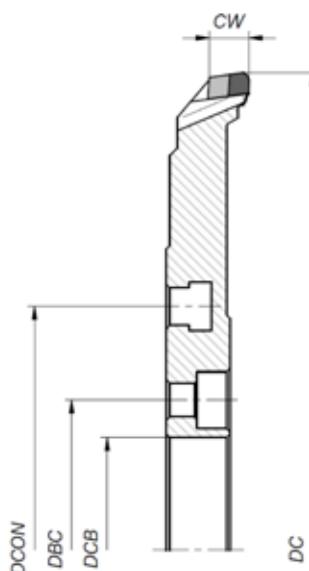
\*Can be expanded to CW = 12.5mm



## DCB 60 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	60	100	130	36	GF02-2303660R GF02-2303660L
230	8,5	60	100	130	42	GF02-2304260R GF02-2304260L
230	8,5	60	100	130	48	GF02-2304860R GF02-2304860L
230	8,5	60	100	130	54	GF02-2305460R GF02-2305460L



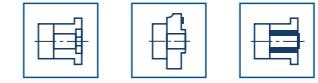
## DCB 60 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	60	100	130	36	GF02-2503660R GF02-2503660L
250	8,5	60	100	130	42	GF02-2504260R GF02-2504260L
250	8,5	60	100	130	48	GF02-2504860R GF02-2504860L
250	8,5	60	100	130	54	GF02-2505460R GF02-2505460L
250	8,5	60	100	130	60	GF02-2506060R GF02-2506060L

\*Can be expanded to CW = 12.5mm

## DCB 80 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	80	100	150	36	GF02-2303680R GF02-2303680L
230	8,5	80	100	150	42	GF02-2304280R GF02-2304280L
230	8,5	80	100	150	48	GF02-2304880R GF02-2304880L
230	8,5	80	100	150	54	GF02-2305480R GF02-2305480L

## DCB 80 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	80	100	150	36	GF02-2503680R GF02-2503680L
250	8,5	80	100	150	42	GF02-2504280R GF02-2504280L
250	8,5	80	100	150	48	GF02-2504880R GF02-2504880L
250	8,5	80	100	150	54	GF02-2505480R GF02-2505480L
250	8,5	80	100	150	60	GF02-2506080R GF02-2506080L

## DCB 100 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
230	8,5	100	160		36	GF02-2303600R GF02-2303600L
230	8,5	100	160		42	GF02-2304200R GF02-2304200L
230	8,5	100	160		48	GF02-2304800R GF02-2304800L
230	8,5	100	160		54	GF02-2305400R GF02-2305400L

## DCB 100 mm mounting hole



DC	CW*	DCB	DBC	DCON	ZEFP	INDICATION
250	8,5	100	160		36	GF02-2503600R GF02-2503600L
250	8,5	100	160		42	GF02-2504200R GF02-2504200L
250	8,5	100	160		48	GF02-2504800R GF02-2504800L
250	8,5	100	160		54	GF02-2505400R GF02-2505400L
250	8,5	100	160		60	GF02-2506000R GF02-2506000L



## GF07

## FORMATCONTROL

**Description:**

The shredder ensures very good quality of the processed surface with long service life, as well as it enables machining with a larger allowance.

**Application:**

Formatting of wood-based boards coated with paper, melamine, Hpl, foil and veneer.

**Information:**

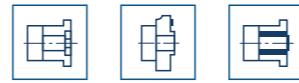
FormatControl is a shredder that is characterized by good chip evacuation, the possibility of multiple sharpening, high processing quality and an extended service life thanks to the optimized tooth shape. It is recommended for processing the materials with a large allowance. For processing of the boards from 8 mm.



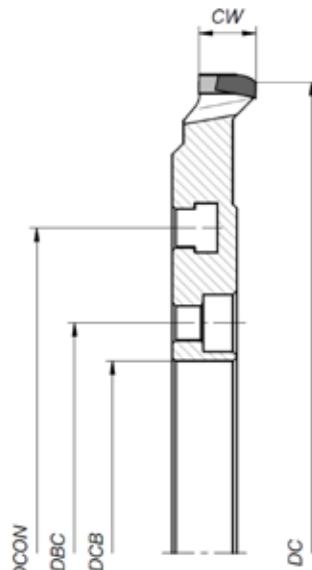
DP



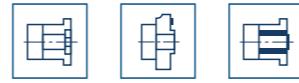
## DCB 60 mm mounting hole



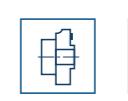
DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	20	60	100	130	36	GF07-2303660R GF07-2303660L
230	20	60	100	130	42	GF07-2304260R GF07-2304260L
230	20	60	100	130	48	GF07-2304860R GF07-2304860L



## DCB 60 mm mounting hole



DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	20	60	100	130	36	GF07-2503660R GF07-2503660L
250	20	60	100	130	42	GF07-2504260R GF07-2504260L
250	20	60	100	130	48	GF07-2504860R GF07-2504860L



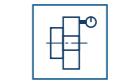
## DCB 80 mm mounting hole

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	20	80	100	150	36	GF07-2303680R GF07-2303680L
230	20	80	100	150	42	GF07-2304280R GF07-2304280L
230	20	80	100	150	48	GF07-2304880R GF07-2304880L



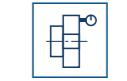
## DCB 80 mm mounting hole

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	20	80	100	150	36	GF07-2503680R GF07-2503680L
250	20	80	100	150	42	GF07-2504280R GF07-2504280L
250	20	80	100	150	48	GF07-2504880R GF07-2504880L



## DCB 100 mm mounting hole

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
230	20	100	160		36	GF07-2303600R GF07-2303600L
230	20	100	160		42	GF07-2304200R GF07-2304200L
230	20	100	160		48	GF07-2304800R GF07-2304800L

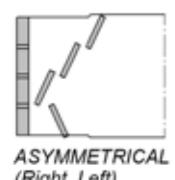
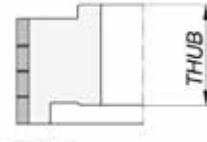
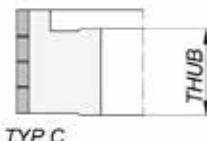
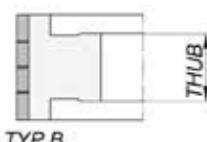
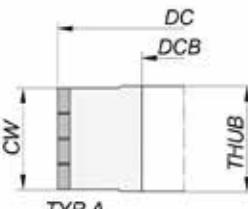


## DCB 100 mm mounting hole

DC	CW	DCB	DBC	DCON	ZEFP	INDICATION
250	20	100	160		36	GF07-2503600R GF07-2503600L
250	20	100	160		42	GF07-2504200R GF07-2504200L
250	20	100	160		48	GF07-2504800R GF07-2504800L



DP



(Right, Left)

**Description:**

Jointing cutters with an axial angle up to 35 degrees.

**Application:**

Leveling the coated wood-based boards prior to lamination. Used on single and double-sided edgebanders.

**Information:**

Good machining quality and service life due to the optimized tool geometry. Cutter for multiple sharpening. The possibility of making the tool for a working height of 72-80 mm.

DC	CW	INDICATION	DCB					THUB	ZEF	TYPE					ROT. DIRECTION			HDP
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	S	
60	46	NWSI-060 10 1	•					66,6	2	•	•	•	•	•	3			
60	65	NWSI-060 15 1	•					66,6	2	•	•	•	•	•	4			
80	46	NWSI-080 15 1	•					66,6	3	•	•	•	•	•	3			
80	65	NWSI-080 21 1	•					66,6	3	•	•	•	•	•	4			
80	45	NWSI-080 15 2	•					53	3	•	•	•	•	•	4			
80	63	NWSI-080 21 2	•					53	3	•	•	•	•	•	4			
85	45	NWSI-085 21 1	•					47	3	•	•	•	•	•	4			
100	36	NWSI-100 12 1	•					38	3	•	•	•	•	•	4			
100	45	NWSI-100 15 1	•	•				41/61	3	•	•	•	•	•	4			
100	54	NWSI-100 18 1	•					56/41	3	•	•	•	•	•	4			
100	63	NWSI-100 21 1	•	•				41/41/75	3	•	•	•	•	•	4			
125	36	NWSI-125 12 1	•					38	3	•	•	•	•	•	5			
125	45	NWSI-125 15 1	•					41/41/57	3	•	•	•	•	•	5			
125	54	NWSI-125 18 1	•					41	3	•	•	•	•	•	5			
125	63	NWSI-125 21 1	•					41/41/57	3	•	•	•	•	•	5			
125	36	NWSI-125 16 1	•					38	4	•	•	•	•	•	5			
125	45	NWSI-125 20 1	•					41/41/57	4	•	•	•	•	•	5			
125	54	NWSI-125 24 1	•					41	4	•	•	•	•	•	5			
125	63	NWSI-125 28 1	•					41/41/57	4	•	•	•	•	•	5			
150	45	NWSI-150 16 1	•	•				47/41	4	•	•	•	•	•	5			
150	63	NWSI-150 28 1	•	•				65/41	4	•	•	•	•	•	5			
150	45	NWSI-150 25 1	•	•				47/41	5	•	•	•	•	•	5			
150	63	NWSI-150 35 1	•	•				65/41	5	•	•	•	•	•	5			
150	45	NWSI-150 30 1	•	•				47/41	6	•	•	•	•	•	5			
150	63	NWSI-150 42 1	•	•				65/41	6	•	•	•	•	•	5			
180	45	NWSI-180 25 1	•	•	•	•		47/41	5	•	•	•	•	•	5			
180	63	NWSI-180 35 1	•	•	•	•		65/41	5	•	•	•	•	•	5			
180	45	NWSI-180 30 1	•	•	•	•		47/41	6	•	•	•	•	•	5			
180	63	NWSI-180 42 1	•	•	•	•		65/41	6	•	•	•	•	•	5			
180	45	NWSI-180 40 1	•	•	•	•		47/41	8	•	•	•	•	•	5			

DC	CW	INDICATION	DCB					THUB	ZEF	TYPE					ROT. DIRECTION			HDP
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	S	
180	63	NWSI-180 56 1	•	•	•	•	•	65/41	8	•	•	•	•	•	•	•	•	5
200	45	NWSI-200 50 1	•	•	•	•	•	47/41	10	•	•	•	•	•	•	•	•	5
200	63	NWSI-200 70 1	•	•	•	•	•	65/41	10	•	•	•	•	•	•	•	•	5
200	45	NWSI-200 60 1	•	•	•	•	•	47/41	12	•	•	•	•	•	•	•	•	5
200	63	NWSI-200 84 1	•	•	•	•	•	65/41	12	•	•	•	•	•	•	•	•	5

**ECO Tools (2-3 sharpenings)**

DC	CW	INDICATION	DCB					THUB	ZEF	TYPE					ROT. DIRECTION			HDP
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	S	
100	36	NWSI-100 12 2	•					38	3	•	•	•	•	•	•	•	•	2
100	45	NWSI-100 15 2	•	•				41/61	3	•	•	•	•	•	•	•	•	2
100	54	NWSI-100 18 2	•					56/41	3	•								

**Description:**

Adjustable jointing cutters with an axial angle of 35 degrees.

**Application:**

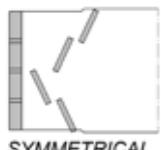
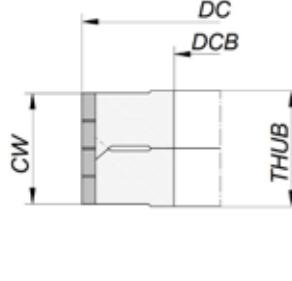
Leveling the coated wood-based boards prior to lamination. Used on single and double-sided edgebanders.

**Information:**

Good machining quality and service life due to the optimized tool geometry. Good chip evacuation. Cutter for multiple sharpening. Symmetrical tool.



DP

**CODING**

DC	CW	INDICATION	DCB 30   35   40	THUB	ZEFP	HDP
100	34-46	NWS3-100 06 1	•	28-40	3	3
125	26-38	NWS3-125 12 1	•	33,5-45,5	6	5
140	26-38	NWS3-140 20 1	•	33,5-45,5	10	5
150	24-38	NWS3-150 12 1	• •	26-40	6	5
150	38-48	NWS3-150 24 1	• •	42-52	6	5
180	18-26	NWS3-180 12 1	• •	30-38	6	5
180	30-36	NWS3-180 24 1	• •	32-38	12	5
180	32-48	NWS3-180 24 2	• •	34-50	12	5
180	30-42	NWS3-180 24 3	• •	32-44	12	5
200	25-35	NWS3-200 32 1	• •	27-37	16	5
200	33-45	NWS3-200 32 2	• •	33-45	16	5

NWS3-200 32 2 40

NWS3-200 32 2

40

NWS3-200 32 2

40

NWS3-200 32 2 40

**Description:**

"VPS" Adjustable jointing cutters with an axial angle of 54 degrees.

**Application:**

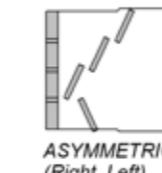
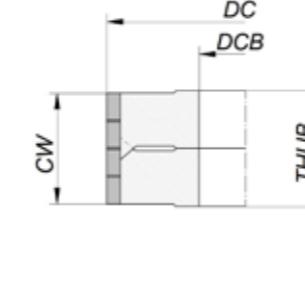
Leveling the coated wood-based boards prior to lamination. Used on single and double-sided edgebanders.

**Information:**

Very good quality of the processing and service life thanks to the innovative VPL technology. The VPL technology provides excellent cutting quality at maximum feed and an exceptionally long operating time on single and double-sided edgebanders. Good chip evacuation, cutter for multiple sharpening. The best performance is obtained with the boards shown in the diagrams.



DP

**CODING**

DC	CW	INDICATION	DCB 25   30   35   40   Hydro 60	THUB	ZEFP	ROT.DIRECTION L   R   S	DIAGRAM
125	35	NWV3-125 35 1	•	43	5+10	• •	1
125	41	NWV3-125 40 1	•	49	5+10	• •	2
127	35	NWV3-127 35 1	•	43	5+10	• •	1
127	41	NWV3-127 40 1	•	49	5+10	• •	2
150	35	NWV3-150 35 1	• •	43	5+10	• •	1
150	41	NWV3-150 40 1	• •	49	5+10	• •	2
180	35	NWV3-180 56 1	• • •	43	8+16	• •	1
180	41	NWV3-180 64 1	• • •	49	8+16	• •	2

NWV3-180 64 1 35 R

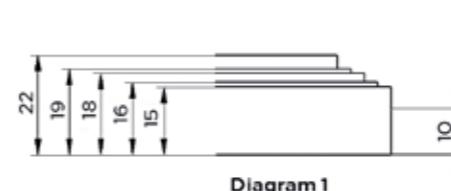


Diagram 1

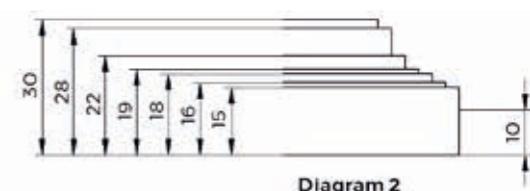
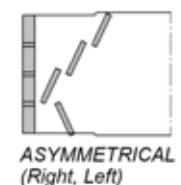
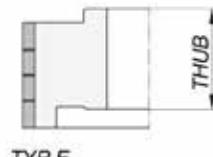
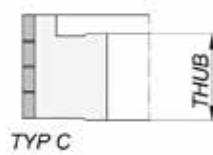
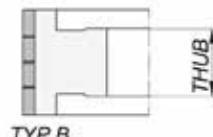
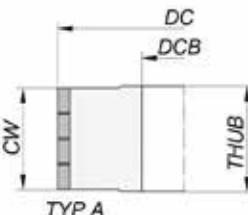


Diagram 2



DP

**Description:**

"VPL" jointing cutters with an axial angle of 54 degrees.

**Application:**

Leveling the coated wood-based boards prior to lamination. Smoothing the edges after formatting. Used on single and double-sided edgebanders. Used together with heads on lines with high feeds.

**Information:**

Very good processing quality and tool life, which is 2-3 times longer than standard solutions, thanks to the innovative VPL technology. The VPL technology provides excellent cutting quality at maximum feed and an exceptionally long operating time on single and double-sided edgebanders. Good chip evacuation, cutter for multiple sharpening. A cutter particularly applicable for 15, 16, 18 mm boards, which account for more than 60% of total production.

DC	CW	INDICATION	DCB					THUB	ZEF	TYPE					ROT. DIRECTION	HDP	
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	
180	54	NWV1-180 961	•	•	•	•	•	66	12	•	•	•	•	•	•	•	4,5
180	62	NWV1-180 1081	•	•	•	•	•	72/66	12	•	•	•	•	•	•	•	4,5
200	30	NWV1-200 501	•	•	•	•	•	40/66	10	•	•	•	•	•	•	•	4,5
200	38	NWV1-200 601	•	•	•	•	•	48/66	10	•	•	•	•	•	•	•	4,5
200	46	NWV1-200 701	•	•	•	•	•	56/66	10	•	•	•	•	•	•	•	4,5
200	54	NWV1-200 801	•	•	•	•	•	66	10	•	•	•	•	•	•	•	4,5
200	62	NWV1-200 901	•	•	•	•	•	72/66	10	•	•	•	•	•	•	•	4,5
200	30	NWV1-200 602	•	•	•	•	•	40/66	12	•	•	•	•	•	•	•	4,5
200	38	NWV1-200 721	•	•	•	•	•	48/66	12	•	•	•	•	•	•	•	4,5
200	46	NWV1-200 841	•	•	•	•	•	56/66	12	•	•	•	•	•	•	•	4,5
200	54	NWV1-200 961	•	•	•	•	•	66	12	•	•	•	•	•	•	•	4,5
200	62	NWV1-200 1081	•	•	•	•	•	72/66	12	•	•	•	•	•	•	•	4,5

**CODING**

DC	CW	INDICATION	DCB					THUB	ZEF	TYPE					ROT. DIRECTION	HDP	
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	
200	62	NWV1-200 1081	•	•	•	•	•	72/66	12	•	•	•	•	•	•	•	4,5

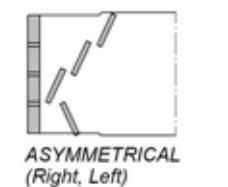
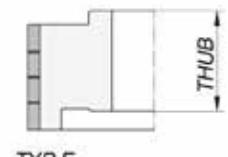
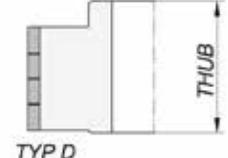
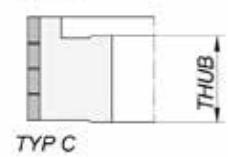
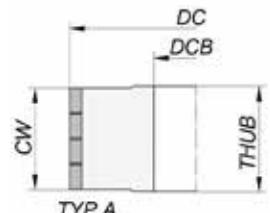
NWV1-200 1081

60

A

L

NWV1-200 1081 60 A L

**Description:**

"VPL" jointing cutters with an axial angle of 54 degrees.

**Application:**

Leveling the coated wood-based boards before lamination. Smoothing the edges after formatting. Used on single and double-sided edgebanders. Used together with heads on lines with high feeds.

**Information:**

Very good processing quality and tool life thanks to the innovative VPL technology. The VPL technology ensures perfect cutting quality at maximum feed and an exceptionally long working time on single and double-sided veneers. Good chip removal, cutter for multiple sharpening. A cutter particularly suitable for 28 mm boards, which account for more than 60% of total production.

DC	CW	INDICATION	DCB					THUB	ZEF	TYPE					ROT. DIRECTION	HDP	
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	
180	54	NWV2-180 961	•	•	•	•	•	66	12	•	•	•	•	•	•	•	4,5
180	62	NWV2-180 1081	•	•	•	•	•	72/66	12	•	•	•	•	•	•	•	4,5
200	30	NWV2-200 501	•	•	•	•	•	40/66	10	•	•	•	•	•	•	•	4,5
200	38	NWV2-200 601	•	•	•	•	•	48/66	10	•	•	•	•	•	•	•	4,5
200	46	NWV2-200 701	•	•	•	•	•	56/66	10	•	•	•	•	•	•	•	4,5
200	54	NWV2-200 801	•	•	•	•	•	66	10	•	•	•	•	•	•	•	4,5
200	62	NWV2-200 901	•	•	•	•	•	72/66	10	•	•	•	•	•	•	•	4,5
200	30	NWV2-200 602	•	•	•	•	•	40/66	12	•	•	•	•	•	•	•	4,5
200	38	NWV2-200 721	•	•	•	•	•	48/66	12	•	•	•	•	•	•	•	4,5
200	46	NWV2-200 841	•	•	•	•	•	56/66	12	•	•	•	•	•	•	•	4,5
200	54	NWV2-200 961	•	•	•	•	•	66	12	•	•	•	•	•	•	•	4,5
200	62	NWV2-200 1081	•	•	•	•	•	72/66	12	•	•	•	•	•	•	•	4,5

! POSSIBILITY TO APPLY THE VPL TECHNOLOGY TO ANOTHER LEADING BOARD.

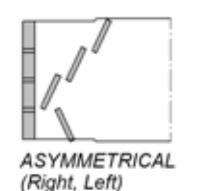
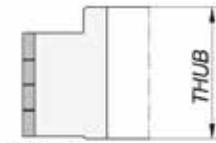
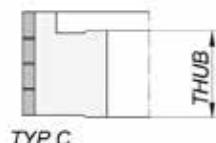
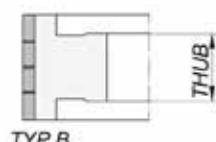
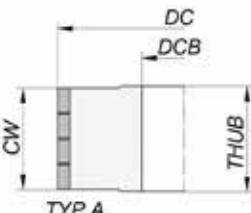
**CODING**

DC	CW	INDICATION	DCB					THUB	ZEF	TYPE					ROT. DIRECTION	HDP	
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	
200	62	NWV2-200 1081	•	•	•	•	•	72/66	12	•	•	•	•	•	•	•	4,5

NWV2-200 1081 60 A L



DP

**Description:**

"Vtech" jointing cutters with an axial angle of 54 degrees.

**Application:**

Leveling the coated wood-based boards prior to lamination. Smoothing the edges after formatting. Used on single and double-sided edgebanders. Used together with heads on lines with high feeds.

**Information:**

Very good processing quality and durability thanks to the VTECH technology. Cutter for multiple sharpening. Good chip evacuation.

DC	CW	INDICATION	DCB					THUB	ZEPF	TYPE					ROT. DIRECTION			HDP
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	S	
125	30	NWT1-125 16 1	●					40/57/57	4	●		●	●	●	●	●	●	4
125	38	NWT1-125 20 1	●					48/57/57	4	●		●	●	●	●	●	●	4
125	46	NWT1-125 24 1	●					56/41/57/57	4	●	●	●	●	●	●	●	●	4
125	54	NWT1-125 28 1	●					64/41/41/57	4	●	●	●	●	●	●	●	●	4
125	62	NWT1-125 32 1	●					72/41/41/57	4	●	●	●	●	●	●	●	●	4
125	30	NWT1-125 20 2	●					40/57/57	5	●		●	●	●	●	●	●	4
125	38	NWT1-125 25 1	●					48/57/57	5	●		●	●	●	●	●	●	4
125	46	NWT1-125 30 1	●					56/41/41/57/57	5	●	●	●	●	●	●	●	●	4
125	54	NWT1-125 35 1	●					64/41/41/57	5	●	●	●	●	●	●	●	●	4
125	62	NWT1-125 40 1	●					72/41/41/58	5	●	●	●	●	●	●	●	●	4
150	30	NWT1-150 16 1	●	●				40	4	●				●	●	●	●	5
150	38	NWT1-150 20 1	●	●				48	4	●				●	●	●	●	5
150	46	NWT1-150 24 1	●	●				56/41/41	4	●	●	●	●	●	●	●	●	5
150	54	NWT1-150 28 1	●	●				64/41/41	4	●	●	●	●	●	●	●	●	5
150	62	NWT1-150 32 1	●	●				72/41/42	4	●	●	●	●	●	●	●	●	5
150	30	NWT1-150 20 2	●	●				40	5	●				●	●	●	●	5
150	38	NWT1-150 25 1	●	●				48	5	●				●	●	●	●	5
150	46	NWT1-150 30 1	●	●				56/41/41	5	●	●	●	●	●	●	●	●	5
150	54	NWT1-150 35 1	●	●				64/41/41	5	●	●	●	●	●	●	●	●	5
150	62	NWT1-150 40 1	●	●				64/41/42	5	●	●	●	●	●	●	●	●	5
180	30	NWT1-180 32 1	●	●	●	●		40/66	8	●	●			●	●	●	●	5
180	38	NWT1-180 40 1	●	●	●	●		48/66	8	●	●			●	●	●	●	5
180	46	NWT1-180 48 1	●	●	●	●		56/66	8	●	●			●	●	●	●	5
180	54	NWT1-180 56 1	●	●	●	●		66	8	●	●			●	●	●	●	5
180	62	NWT1-180 64 1	●	●	●	●		72/66	8	●	●			●	●	●	●	5
180	30	NWT1-180 48 2	●	●	●	●		40/66	12	●	●			●	●	●	●	5
180	38	NWT1-180 60 1	●	●	●	●		48/66	12	●	●			●	●	●	●	5
180	46	NWT1-180 72 1	●	●	●	●		56/66	12	●	●			●	●	●	●	5
180	54	NWT1-180 84 1	●	●	●	●		66	12	●	●			●	●	●	●	5
180	62	NWT1-180 96 1	●	●	●	●		72/66	12	●	●			●	●	●	●	5

DC	CW	INDICATION	DCB					THUB	ZEPF	TYPE					ROT. DIRECTION			HDP
			25	30	35	40	Hydro 60			A	B	C	D	E	L	R	S	
200	30	NWT1-200 40 1	●	●	●	●	●	40/66	10	●	●	●	●	●	●	●	●	5
200	38	NWT1-200 50 1	●	●	●	●	●	48/66	10	●	●	●	●	●	●	●	●	5
200	46	NWT1-200 60 1	●	●	●	●	●	56/66	10	●	●	●	●	●	●	●	●	5
200	54	NWT1-200 70 1	●	●	●	●	●	66	10	●	●	●	●	●	●	●	●	5
200	62	NWT1-200 80 1	●	●	●	●	●	72/66	10	●	●	●	●	●	●	●	●	5
200	30	NWT1-200 48 1	●	●	●	●	●	40/66	12	●	●	●	●	●	●	●	●	5
200	38	NWT1-200 60 2	●	●	●	●	●	48/66	12	●	●	●	●	●	●	●	●	5
200	46	NWT1-200 72 1	●	●	●	●	●	56/66	12	●	●	●	●	●	●	●	●	5
200	54	NWT1-200 84 1	●	●	●	●	●	66	12	●	●	●	●	●	●	●	●	5
200	62	NWT1-200 96 1	●	●	●	●	●	72/66	12	●	●	●	●	●	●	●	●	5

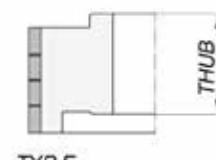
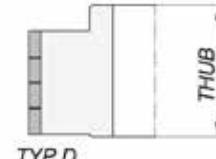
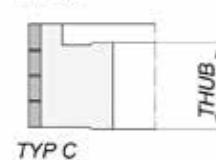
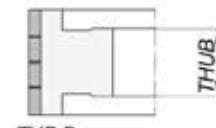
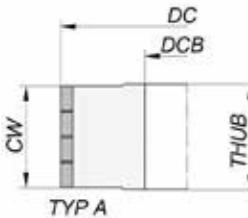
**CODING**

DC	CW	INDICATION	DCB					THUB	ZEPF	TYPE					ROT. DIRECTION			HDP
25	30	35	40	Hydro 60	A	B	C	D	E	L	R							

## JOINTING CUTTERS



**DP**



### Description:

"Vtech" symetric jointing cutters with an axial angle of 54 degrees.

### Application:

Leveling the coated wood-based boards prior to lamination. Used on single and double-sided edgebanders.

### Information:

Very good processing quality and durability thanks to the VTECH technology. Cutter for multiple sharpening. Good chip evacuation.

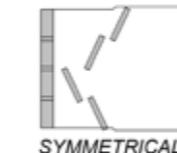
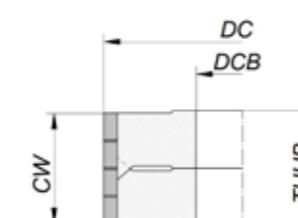
## NWT2

PRO

## JOINTING CUTTERS



**DP**



### Description:

"Vtech" Adjustable jointing cutters with an axial angle of 54 degrees.

### Application:

Leveling the coated wood-based boards prior to lamination. Used on single and double-sided edgebanders.

### Information:

Very good processing quality and durability thanks to the VTECH technology. Cutter for multiple sharpening. Good chip evacuation.

## NWT3

PRO

DC	CW	INDICATION	DCB				THUB	ZEFP	TYPE					ROT.DIRECTION	HDP
			25	30	35	40			A	B	C	D	E		
125	24	NWT2-125 241	●				30	6	●					●	5
125	36	NWT2-125 361	●				42	6	●					●	5
125	48	NWT2-125 481	●				54/41	6	●	●				●	5
125	24	NWT2-125 321	●				30	8	●					●	5
125	36	NWT2-125 482	●				42	8	●					●	5
125	48	NWT2-125 641	●				54/41	8	●	●				●	5
150	24	NWT2-150 321	●	●			30	8	●					●	5
150	36	NWT2-150 481	●	●			42	8	●					●	5
150	48	NWT2-150 641	●	●			54/41	8	●	●				●	5
180	24	NWT2-180 321	●	●	●	●	30/66	8	●		●			●	5
180	36	NWT2-180 481	●	●	●	●	42/66	8	●		●			●	5
180	48	NWT2-180 641	●	●	●	●	54/41/66	8	●	●	●			●	5
180	24	NWT2-180 401	●	●	●	●	30/66	10	●		●			●	5
180	36	NWT2-180 601	●	●	●	●	42/66	10	●		●			●	5
180	48	NWT2-180 801	●	●	●	●	54/41/66	10	●	●	●			●	5
200	24	NWT2-200 401	●	●	●	●	30/66	10	●		●			●	5
200	36	NWT2-200 601	●	●	●	●	42/66	10	●		●			●	5
200	48	NWT2-200 801	●	●	●	●	54/41/66	10	●	●	●			●	5

A special purpose cutter with a max diameter of Ø125 and, and Ø123 after last service.

DC	CW	INDICATION	DCB				THUB	ZEFP	TYPE					ROT.DIRECTION	HDP
			25	30	35	40	Hydro	60	A	B	C	D	E	L	R
125	24	NWT2-125 322	●				30	8	●					●	2
125	36	NWT2-125 483	●				42	8	●					●	2
125	48	NWT2-125 642	●				54/41	8	●	●				●	2

### CODING

DC	CW	INDICATION	DCB				THUB	ZEFP	TYPE					ROT.DIRECTION	HDP
			25	30	35	40	Hydro	60	A	B	C	D	E	L	R
200	48	NWT2-200 801	●	●	●	●	54/41/66	10	●	●	●	●	●	●	5

NWT2-200 801 60 A



**Description:**

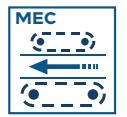
Edge-rounding cutters HSK25R.

**Application:**

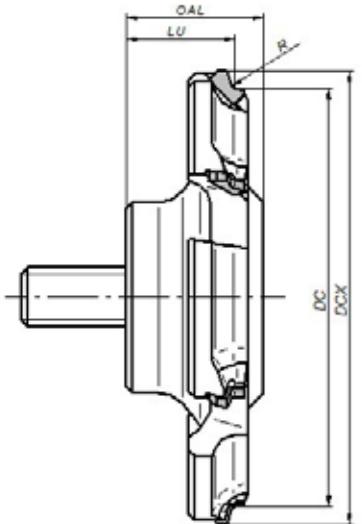
Rounding the edges of coated wood-based boards. Used on one and two-sided edgebanders.

**Information:**

Tools with 3 mm DP blades mounted on an HSK25R adapter. Good machining quality and service life thanks to the optimized tool geometry. Good chip removal, milling cutter for multiple sharpening, with constant DC diameter and LU length - changing the tool is faster.



DP



DCX	DC	OAL	LU	ZEPF	R	INDICATION	ROT. DIRECTION	
							L	R
76	70	23	18	4	R1	NKR1-076 04 01	●	●
76	70	23	18	6	R1	NKR1-076 06 01	●	●
76	70	23	18	8	R1	NKR1-076 08 01	●	●
76	70	23	18	4	R1,5	NKR1-076 04 02	●	●
76	70	23	18	6	R1,5	NKR1-076 06 02	●	●
76	70	23	18	8	R1,5	NKR1-076 08 02	●	●
76	70	23	18	4	R2	NKR1-076 04 03	●	●
76	70	23	18	6	R2	NKR1-076 06 03	●	●
76	70	23	18	8	R2	NKR1-076 08 03	●	●
76	70	23	18	4	R3	NKR1-076 04 04	●	●
76	70	23	18	6	R3	NKR1-076 06 04	●	●
76	70	23	18	8	R3	NKR1-076 08 04	●	●

**Description:**

Edge rounding cutters HSK32.

**Application:**

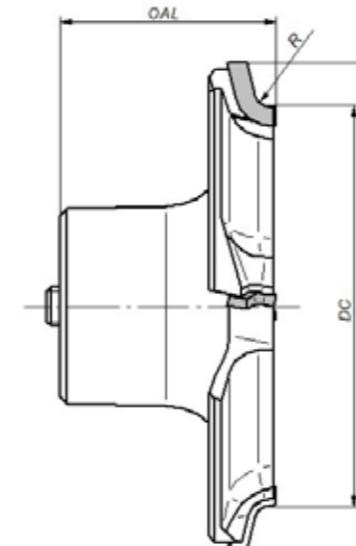
Rounding the edges of coated wood-based boards. Used on single and double-sided edgebanders.

**Information:**

Tools with 3 mm DP blades mounted on an HSK32 adapter. Good machining quality and service life due to the optimized tool geometry. Good chip evacuation, cutter for multiple sharpening at LU axle - can be changed faster.



DP



DCX	DC	OAL	LU	ZEPF	R	INDICATION	ROT. DIRECTION	
							L	R
75	62	33	31,5	4	R1	NKR2-075 04 01	●	●
75	62	33	31,5	6	R1	NKR2-075 06 01	●	●
75	62	33	31,5	8	R1	NKR2-075 08 01	●	●
75	62	33	31,5	4	R1,5	NKR2-075 04 02	●	●
75	62	33	31,5	6	R1,5	NKR2-075 06 02	●	●
75	62	33	31,5	8	R1,5	NKR2-075 08 02	●	●
75	62	33	31,5	4	R2	NKR2-075 04 03	●	●
75	62	33	31,5	6	R2	NKR2-075 06 03	●	●
75	62	33	31,5	8	R2	NKR2-075 08 03	●	●
75	62	33	31,5	4	R3	NKR2-075 04 04	●	●
75	62	33	31,5	6	R3	NKR2-075 06 04	●	●
75	62	33	31,5	8	R3	NKR2-075 08 04	●	●

**NKM1****Description:**

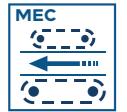
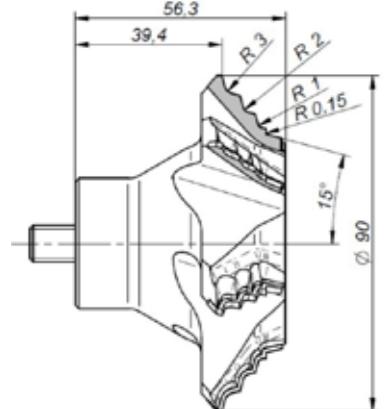
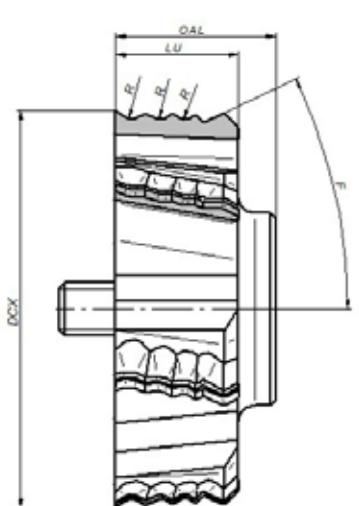
Edge Rounding - Chamfering Cutters Multi.

**Application:**

Rounding the edges of coated wood-based boards. Used on single and double-sided edge-banders.

**Information:**

Tools with 3mm DP blades mounted on the HSK25R adapter, it ensures good machining quality and durability thanks to the optimized geometry of the tool. Good chip evacuation, cutter for multiple sharpening at LU length - the tool can be changed faster.

**DP**

DCX	OAL	LU	ZEFP	R/F	KFA	MFA	INDICATION	ROT.DIRECTION	L	R
75	30	23	6	R3 R2 R1 F30'			NKMI-075 06 01		●	●
75	30	23	6	R1,7 R1 R0,45 F20'			NKMI-075 06 02		●	●
75	30	23	6	R3 R2 R1,5 F25'			NKMI-075 06 03		●	●
75	30	23	6	R2 R2 R1 F20'			NKMI-075 06 04		●	●
75	30	23	6	R2 R1,5 R1 F25'			NKMI-075 06 05		●	●
75	30	23	6	R3 R2 R1 F25'			NKMI-075 06 06		●	●
75	30	23	6	R1,5 R2 R1,5 F45'			NKMI-075 06 07		●	●
75	28	28	6	R2 R2 R2 F20'	●		NKMI-075 06 08		●	●
75	28	28	6	R2 R1,5 R1 F25'	●		NKMI-075 06 09		●	●
75	28	28	6	R3 R2 R1 F45'	●		NKMI-075 06 10		●	●
90	56,3		6	F15 R1 R2 R3		●	NKMI-090 06 01		●	●

**NKM2****Description:**

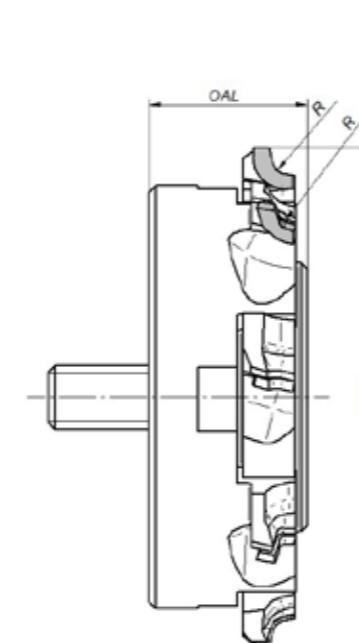
Edge Rounding - Chamfering Cutters.

**Application:**

Rounding the edges of coated wood-based boards. Used on edgebanders. Homag FK11, FK20, FK21, FF12, FF32, PF21.

**Information:**

Tools with 3 mm DP blades mounted on the HSK25R adapter, it ensures good machining quality and durability thanks to the optimized geometry of the tool. Good chip evacuation, cutter for multiple sharpening, constant DC diameter and LU length - tool replacement is faster.

**DP**

DCX	DC	OAL	ZEFP	R/F	INDICATION	ROT.DIRECTION	L	R
79	70	25	4+4	R2 F20	NKM2-079 08 01		●	●
79	70	25	4+4	R2 F45	NKM2-079 08 02		●	●
78	70	25	4+4	R1 R2	NKM2-078 08 01		●	●
78	70	25	4+4	R1,5 R2	NKM2-078 08 02		●	●
78	70	25	4+4	R2 R3	NKM2-078 08 03		●	●

**Description:**

Edge chamfering cutter HSK25R.

**Application:**

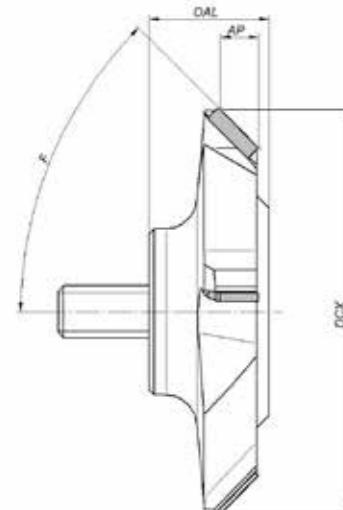
Beveling of the edges of coated wood-based boards. Used on one-sided and two-sided edgebanders.

**Information:**

Tools with 3 mm DP blades mounted on the HSK25R adapter, it ensures good machining quality and durability thanks to the optimized geometry of the tool. Good chip evacuation, cutter for multiple sharpening at LU length - the tool can be changed faster.



DP



DCX	DC	OAL	CW	ZEFP	R/F	INDICATION	ROT. DIRECTION	L	R
81	77,2	28	25	4	F05'	NKF1-081 04 01		•	•
70,1	68,9	28	10	6	F10'	NKF1-070 06 02		•	•
68,9	73	23	12	4	F10'	NKF1-068 04 01		•	•
69	73	23	12	6	F10'	NKF1-069 06 01		•	•
79	74,7	23	12	4	F10'	NKF1-079 04 01		•	•
70	62,5	23,5	15	6	F15'	NKF1-070 06 01		•	•
73	68	23	8	4	F20'	NKF1-073 04 01		•	•
77	70	23,5	8	4	F20'	NKF1-077 04 01		•	•
78	62	23	7,8	4	F45'	NKF1-78 04 01		•	•
78	62	23	7	6	F45'	NKF1-078 06 01		•	•

**Description:**

Edge chamfering cutter HSK32.

**Application:**

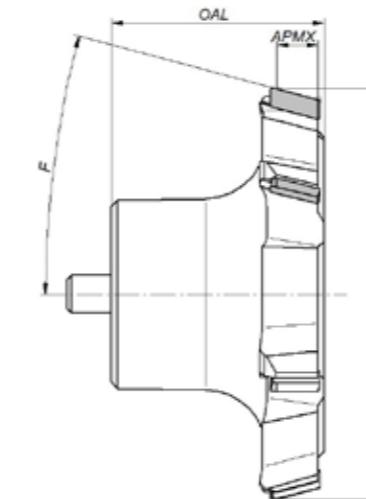
Beveling of the edges of coated wood-based boards. Used on single-sided and double-sided edgebanders.

**Information:**

Tools with 3 mm DP blades mounted on the HSK32 adapter ,it ensures good machining quality and durability thanks to the optimized geometry of the tool. Good chip evacuation, cutter for multiple sharpening, constant DC diameter and LU length - tool replacement is faster.



DP



DCX	DC	OAL	LU	CW	ZEFP	R/F	INDICATION	ROT. DIRECTION	L	R
65,5	62	33	31,5	6,5	4	F15	NKF2-065 04 01		•	•
65,5	62	33	31,5	6,5	6	F15	NKF2-065 06 01		•	•
65,5	62	33	31,5	6,5	4	F20	NKF2-065 04 02		•	•
65,5	62	33	31,5	6,5	6	F20	NKF2-065 06 02		•	•
70	62	33	31,5	6,5	4	F45	NKF2-070 04 01		•	•
70	62	33	31,5	6,5	6	F45	NKF2-070 06 01		•	•

**Special tools for cutting the excess veneer at the intended height (IMA)**

DC	OAL	CW	ZEFP	R/F	INDICATION	ROT. DIRECTION	L	R
70	23	8	4	F00'	NKF1-070 04 01		•	•
70	23	8	6	F00'	NKF1-070 06 01		•	•

**NF01****Description:**

Cutter for SOFTforming, POSTforming.

**Application:**

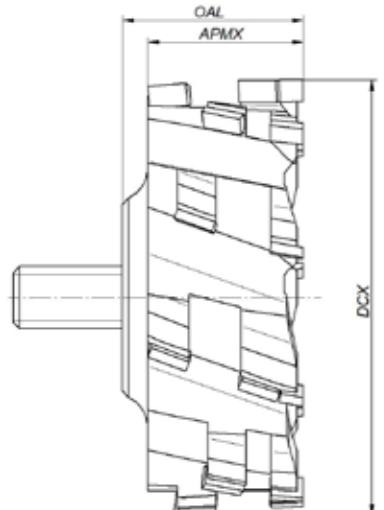
Postformatting of coated wood-based boards.

**Information:**

Tools with 3.5 mm DP blades mounted on the HSK25R adapter, ensuring good machining quality and service life thanks to the optimized tool geometry. Optimum chip evacuation, multiple sharpening.

**DP**

DC	DCB	OAL	APMX	ZEFP	INDICATION	ROT. DIRECTION	
						L	R
70	HSK25R	29	25	9+3+3	NF01-070 21 01	•	•
70	HSK25R	29	25	16+6+6	NF01-070 36 01	•	•

**FOLDING INSERT CUTTERS  
(GROOVING)****NW01****Description:**

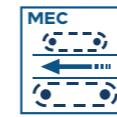
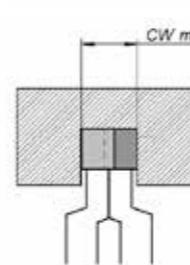
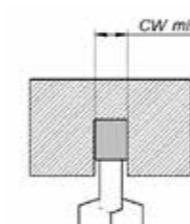
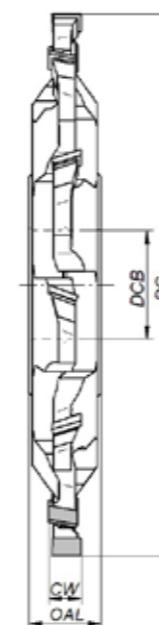
A tool intended for making grooves and rebates.

**Application:**

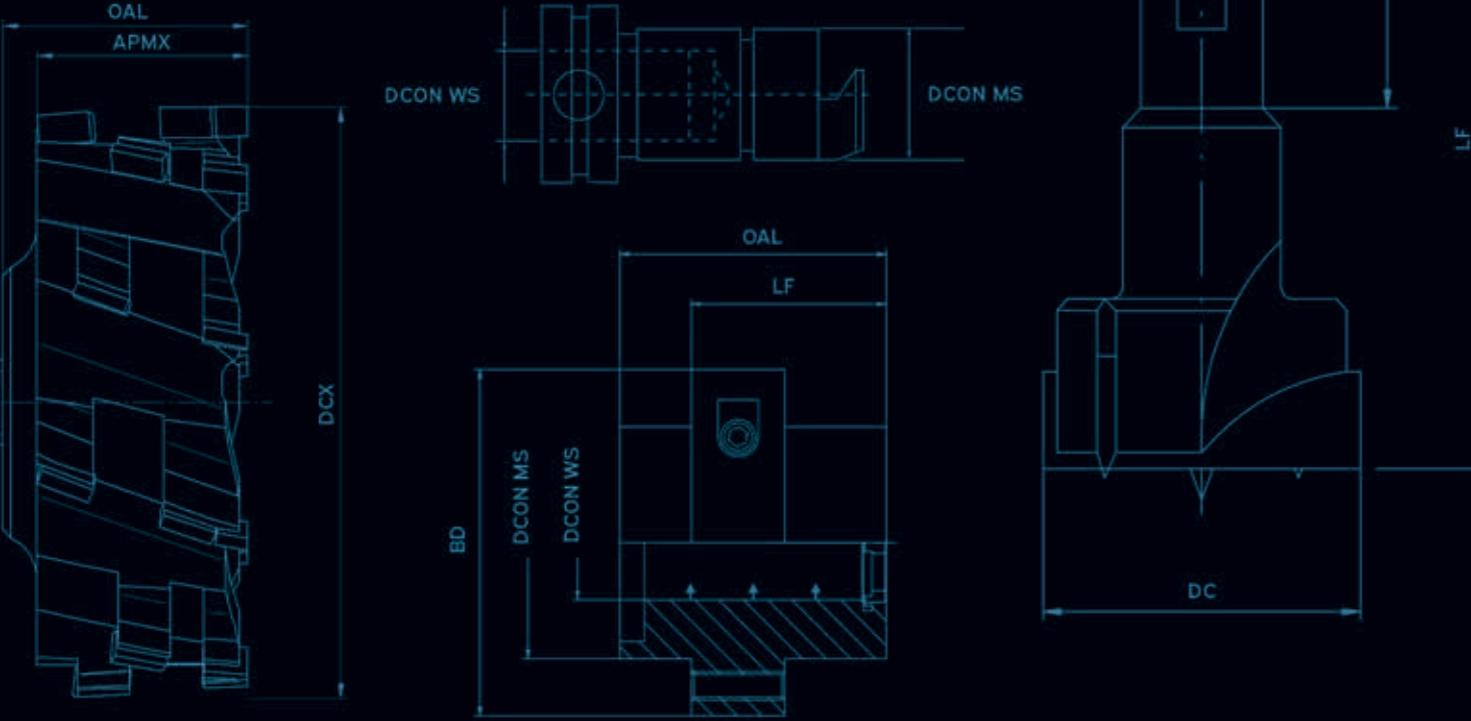
Soft wood, hard wood, chipboard, MDF.

**Information:**

Tools with DP blade mounted directly on the spindle, 5 mm sharpening height, the tool maintains a constant width after sharpening.

**DP**

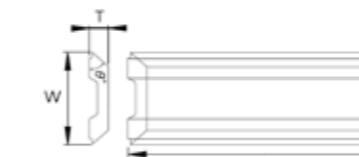
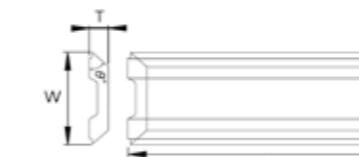
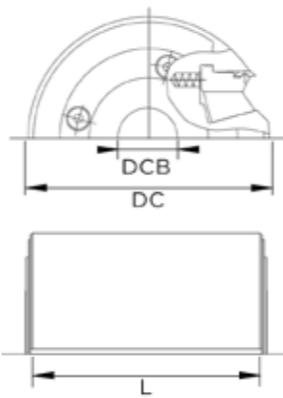
DW	CW	DCB	ZEFP	HDP	INDICATION
120	3/5,5	25/30/35	6+6	6	NW01-DAF16001-*
120	4/7,5	25/30/35	6+6	6	NW01-DAF16002-*
120	5/9,5	25/30/35	6+6	6	NW01-DAF16003-*
120	6/11,5	25/30/35	6+6	6	NW01-DAF16004-*
150	3/5,5	25/30/35	6+6	6	NW01-DAF16005-*
150	4/7,5	25/30/35	6+6	6	NW01-DAF16006-*
150	5/9,5	25/30/35	6+6	6	NW01-DAF16007-*
150	6/11,5	25/30/35	6+6	6	NW01-DAF16008-*
200	3/5,5	30/35/40	6+6	6	NW01-DAF16009-*
200	4/7,5	30/35/40	6+6	6	NW01-DAF16010-*
200	5/9,5	30/35/40	6+6	6	NW01-DAF16011-*
200	6/11,5	30/35/40	6+6	6	NW01-DAF16012-*
200	3/5,5	30/35/40	8+8	6	NW01-DAF16013-*
200	4/7,5	30/35/40	8+8	6	NW01-DAF16014-*
200	5/9,5	30/35/40	8+8	6	NW01-DAF16015-*
200	6/11,5	30/35/40	8+8	6	NW01-DAF16016-*
200	3/5,5	30/35/40	12+12	6	NW01-DAF16017-*
200	4/7,5	30/35/40	12+12	6	NW01-DAF16018-*
200	5/9,5	30/35/40	12+12	6	NW01-DAF16019-*
200	6/11,5	30/35/40	12+12	6	NW01-DAF16020-*



## II PLANING AND PROFILING



PLANER HEADS

**Description:**

ENSHIN Kanefusa planer heads with self-clamping and self-positioning system for the knives.

**Application:**

It is used for finishing and roughing operations.

**Information:**

Good processing quality and durability are ensured by the special geometry of ENSHIN blades and a precise self-locking system.

DC	L	DCB	Z	INDICATION
125	130	40	4	FNGS1-789A869500
125	180	40	4	FNGS1-789A868500
125	230	40	4	FNGS1-789A866500

**Description:**

ENSHIN HSS planer knives for assembly in the ENSHIN planer heads.

**Application:**

It is used for finishing and roughing operations.

**Information:**

5x longer service life compared to standard blades is achieved thanks to the polished cutting edges and the special AMT coating.

L	W	T	ZEFP	INDICATION
130	12,7	2,6	2	FNGS1-797A298611
180	12,7	2,6	2	FNGS1-797A300611
230	12,7	2,6	2	FNGS1-797A299611

**Description:**

ENSHIN carbide planer heads for installation in ENSHIN planer heads.

**Application:**

It is used for finishing and roughing operations.

**Information:**

Excellent service life compared to standard blades is achieved thanks to the polished cutting edges.

L	W	T	Z	INDICATION
130	12,7	2,6	2	FNGS1-797A435900
180	12,7	2,6	2	FNGS1-797A436900
230	12,7	2,6	2	FNGS1-797A351900

**FNGS2****Description:**

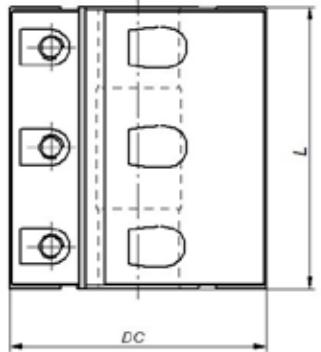
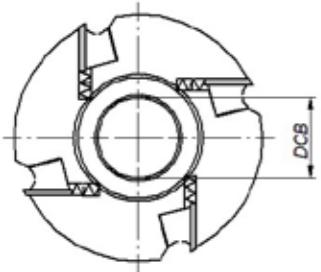
Planer heads for replaceable knives.

**Application:**

It is used for finishing and roughing operations.

**Information:**

Good processing quality and service life.



DC	L	DCB	ZEFP	INDICATION
125	100	40	4	FNGS2-I2501
125	120	40	4	FNGS2-I2502
125	130	40	4	FNGS2-I2503
125	150	40	4	FNGS2-I2504
125	160	40	4	FNGS2-I2505
125	180	40	4	FNGS2-I2506
125	230	40	4	FNGS2-I2507
140	100	40	6	FNGS2-I4001
140	120	40	6	FNGS2-I4002
140	130	40	6	FNGS2-I4003
140	150	40	6	FNGS2-I4004
140	160	40	6	FNGS2-I4005
140	180	40	6	FNGS2-I4006
140	230	40	6	FNGS2-I4007
160	100	40	8	FNGS2-I6001
160	120	40	8	FNGS2-I6002
160	130	40	8	FNGS2-I6003
160	150	40	8	FNGS2-I6004
160	160	40	8	FNGS2-I6005
160	180	40	8	FNGS2-I6006
160	230	40	8	FNGS2-I6007

**FNGS3****Description:**

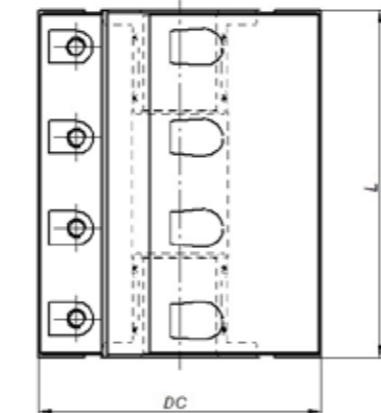
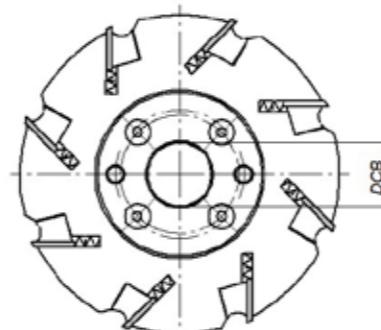
Planer heads for replaceable knives with HYDRAULIC clamping on a spindle.

**Application:**

It is used for finishing and roughing operations.

**Information:**

Good processing quality and service life.



DC	L	DCB	ZEFP	INDICATION
125	100	40	4	FNGS3-I2501
125	120	40	4	FNGS3-I2502
125	130	40	4	FNGS3-I2503
125	150	40	4	FNGS3-I2504
125	160	40	4	FNGS3-I2505
125	180	40	4	FNGS3-I2506
125	230	40	4	FNGS3-I2507
140	100	40	6	FNGS3-I4001
140	120	40	6	FNGS3-I4002
140	130	40	6	FNGS3-I4003
140	150	40	6	FNGS3-I4004
140	160	40	6	FNGS3-I4005
140	180	40	6	FNGS3-I4006
140	230	40	6	FNGS3-I4007
160	100	40	8	FNGS3-I6001
160	120	40	8	FNGS3-I6002
160	130	40	8	FNGS3-I6003
160	150	40	8	FNGS3-I6004
160	160	40	8	FNGS3-I6005
160	180	40	8	FNGS3-I6006
160	230	40	8	FNGS3-I6007

**FNGS4**

KANEFUSA

**FNGS5****Description:**

KANEFUSA ST-1 planer knives.

**Application:**

It is used for finishing and roughing operations.

**Information:**

5 times longer service life compared to standard blades is achieved thanks to the special AMT coating.

**Description:**

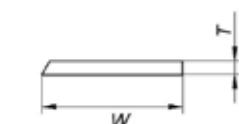
18% HSS planer knives.

**Application:**

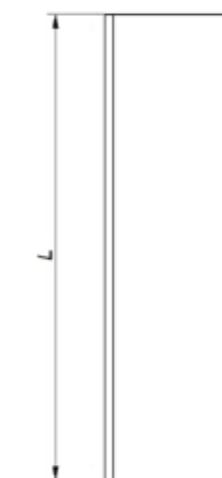
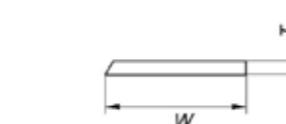
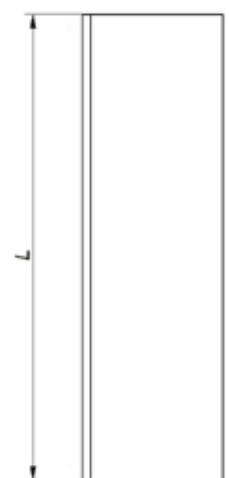
It is used for finishing and roughing operations.

**Information:**

Standard quality and service life.



L	W	T	CODE
100	30	3	FNGS4-HSS100x30x3
120	30	3	FNGS4-HSS120x30x3
130	30	3	FNGS4-HSS130x30x3
150	30	3	FNGS4-HSS150x30x3
160	30	3	FNGS4-HSS160x30x3
180	30	3	FNGS4-HSS180x30x3
230	30	3	FNGS4-HSS230x30x3
260	30	3	FNGS4-HSS260x30x3
635	30	3	FNGS4-HSS635x30x3



L	W	T	CODE
80	30	3	FNGS5-HSS80x30x3
100	30	3	FNGS5-HSS100x30x3
110	30	3	FNGS5-HSS110x30x3
120	30	3	FNGS5-HSS120x30x3
130	30	3	FNGS5-HSS130x30x3
140	30	3	FNGS5-HSS140x30x3
150	30	3	FNGS5-HSS150x30x3
160	30	3	FNGS5-HSS160x30x3
180	30	3	FNGS5-HSS180x30x3
200	30	3	FNGS5-HSS200x30x3
210	30	3	FNGS5-HSS210x30x3
230	30	3	FNGS5-HSS230x30x3
310	30	3	FNGS5-HSS310x30x3
330	30	3	FNGS5-HSS330x30x3
410	30	3	FNGS5-HSS410x30x3

L	W	T	CODE
80	35	3	FNGS5-HSS80x35x3
100	35	3	FNGS5-HSS100x35x3
110	35	3	FNGS5-HSS110x35x3
120	35	3	FNGS5-HSS120x35x3
130	35	3	FNGS5-HSS130x35x3
140	35	3	FNGS5-HSS140x35x3
150	35	3	FNGS5-HSS150x35x3
160	35	3	FNGS5-HSS160x35x3
180	35	3	FNGS5-HSS180x35x3
200	35	3	FNGS5-HSS200x35x3
210	35	3	FNGS5-HSS210x35x3
230	35	3	FNGS5-HSS230x35x3
310	35	3	FNGS5-HSS310x35x3
330	35	3	FNGS5-HSS330x35x3
410	35	3	FNGS5-HSS410x35x3

**FNGS6****Description:**

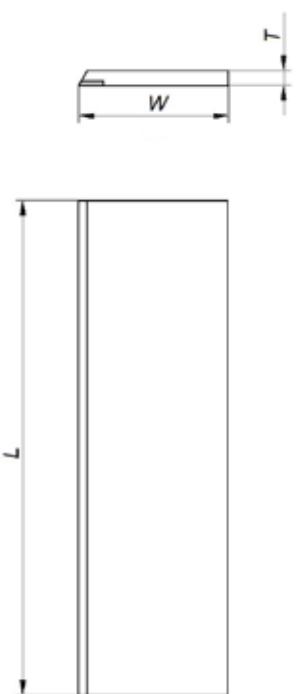
Planer heads with carbide insert.

**Application:**

It is used for finishing and roughing operations.

**Information:**

Standard quality and service life.



L	W	T	CODE
45	30	3	FNGS6-HM045x30x3
80	30	3	FNGS6-HM080x30x3
100	30	3	FNGS6-HM100x30x3
130	30	3	FNGS6-HM130x30x3
150	30	3	FNGS6-HM150x30x3
160	30	3	FNGS6-HM160x30x3
170	30	3	FNGS6-HM170x30x3
180	30	3	FNGS6-HM180x30x3
200	30	3	FNGS6-HM200x30x3
220	30	3	FNGS6-HM220x30x3
230	30	3	FNGS6-HM230x30x3
240	30	3	FNGS6-HM240x30x3

L	W	T	CODE
100	35	3	FNGS6-HM100x35x3
160	35	3	FNGS6-HM160x35x3
180	35	3	FNGS6-HM180x35x3
230	35	3	FNGS6-HM230x35x3

**Description:**

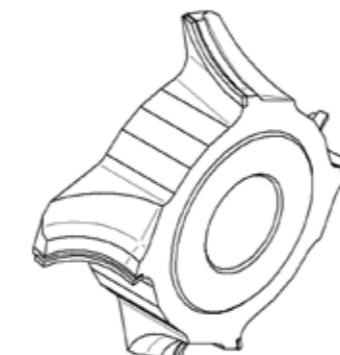
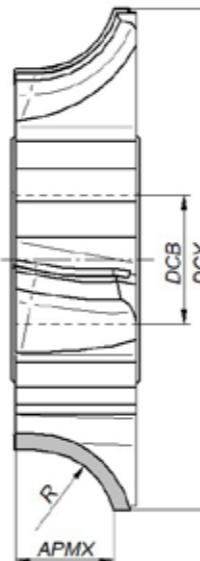
Profile cutter.

**Application:**

Profiling of wood-based boards. A quarter round.

**Information:**

Tools with 4 mm DP blades for good machining quality and long service life. Good chip removal, multiple sharpening.



DCX	DCB	APMX	HEIGHT PLATE	R	ZEFF	INDICATION	ROT. DIRECTION	L	R
160	30	22	20	R5	4	NR01-160 04 30 01	•	•	
160	30	22	20	R8	4	NR01-160 04 30 02	•	•	
160	30	22	20	R10	4	NR01-160 04 30 03	•	•	
160	30	22	20	R12	4	NR01-160 04 30 04	•	•	
160	30	22	20	R15	4	NR01-160 04 30 05	•	•	
160	30	22	20	R16	4	NR01-160 04 30 06	•	•	
160	30	22	20	R18	4	NR01-160 04 30 07	•	•	
160	30	22	20	R19	4	NR01-160 04 30 08	•	•	
160	30	22	20	R20	4	NR01-160 04 30 09	•	•	
160	30	22	20	R22	4	NR01-160 04 30 10	•	•	
160	30	22	20	R25	4	NR01-160 04 30 11	•	•	

## PROFILE CUTTERS



## NR02

**Description:**

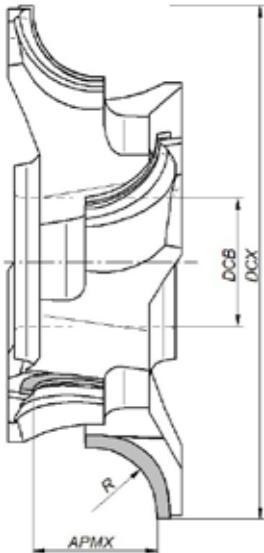
Profile cutter.

**Application:**

Profiling the wood-based boards. A half round.

**Information:**

Tools with 4 mm DP blades for good machining quality and long service life. Good chip removal, multiple sharpening. Symmetrical tool.



DCX	DCB	APMX	R	ZEFP	INDICATION	ROT. DIRECTION
L	R					
160	30	16	R8	4	NR02-160 04 30 01	● ●
160	30	18	R9	4	NR02-160 04 30 01	● ●
160	30	20	R10	4	NR02-160 04 30 01	● ●
160	30	22	R11	4	NR02-160 04 30 01	● ●
160	30	24	R12	4	NR02-160 04 30 01	● ●
160	30	30	R15	4	NR02-160 04 30 01	● ●

## PROFILE CUTTERS



## NR03

**Description:**

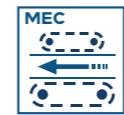
Profile cutter.

**Application:**

Profiling the wood-based boards. Chamfering of a workpiece.

**Information:**

Tools with 4 mm DP blades for good machining quality and long service life. Good chip removal, multiple sharpening.



DCX	DCB	APMX	R/F	ZEFP	INDICATION	ROT. DIRECTION
L	R					
160	30	15	F45°	4	NR03-160 04 30 01	● ●
160	30	20	F45°	4	NR03-160 04 30 02	● ●
160	30	25	F45°	4	NR03-160 04 30 03	● ●

## PROFILE CUTTERS



## NR04

### Description:

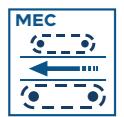
Profile cutter.

### Application:

Profiling of wood-based boards. Making a handrail.

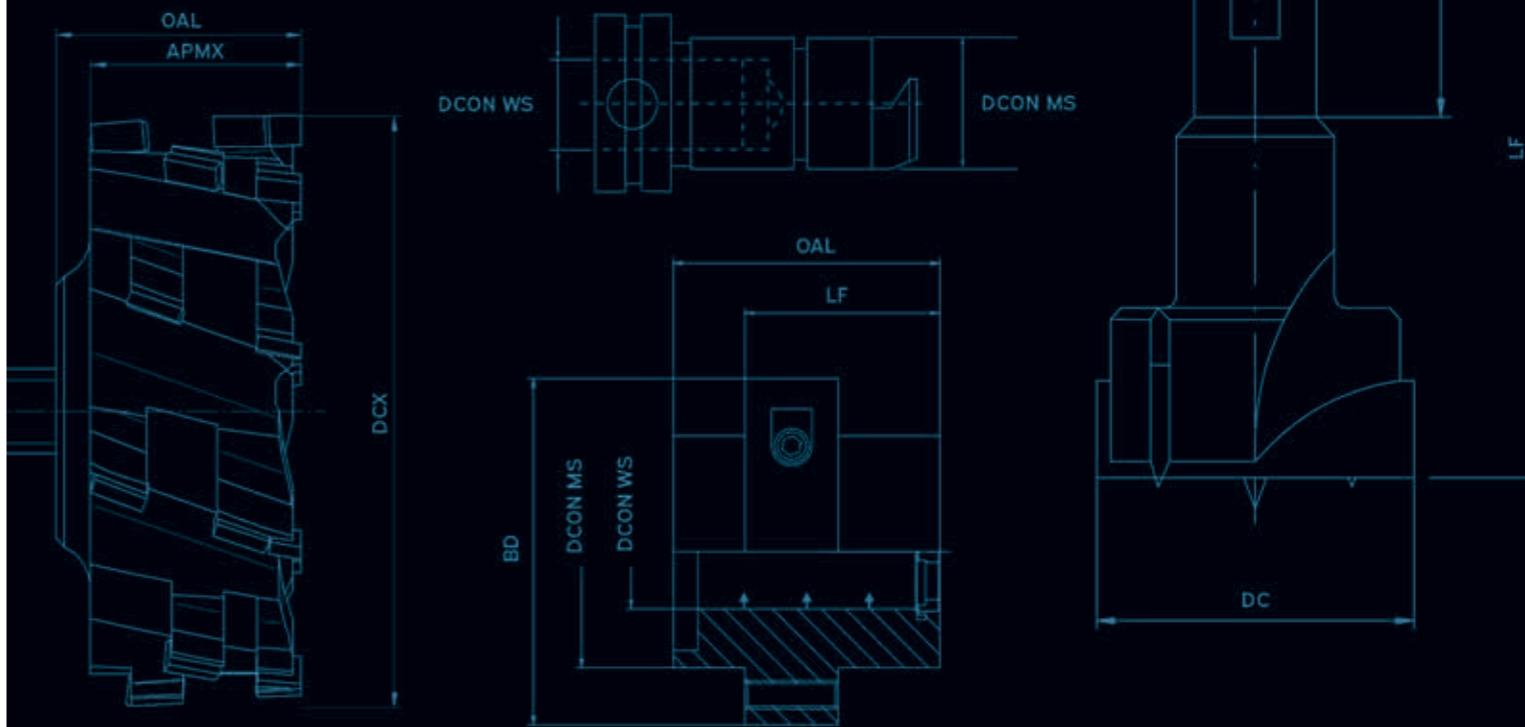
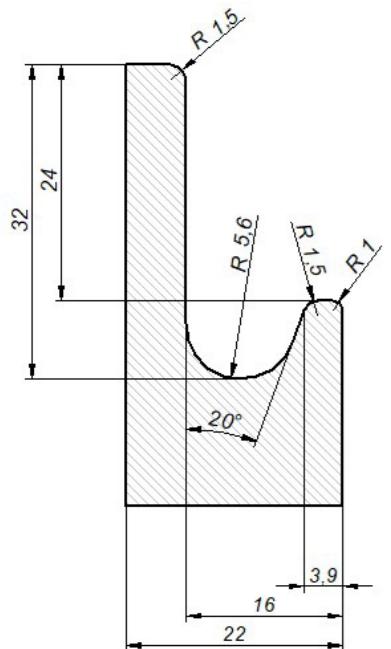
### Information:

Tools with 4 mm DP blades for good machining quality and long service life. Good chip removal, multiple sharpening.



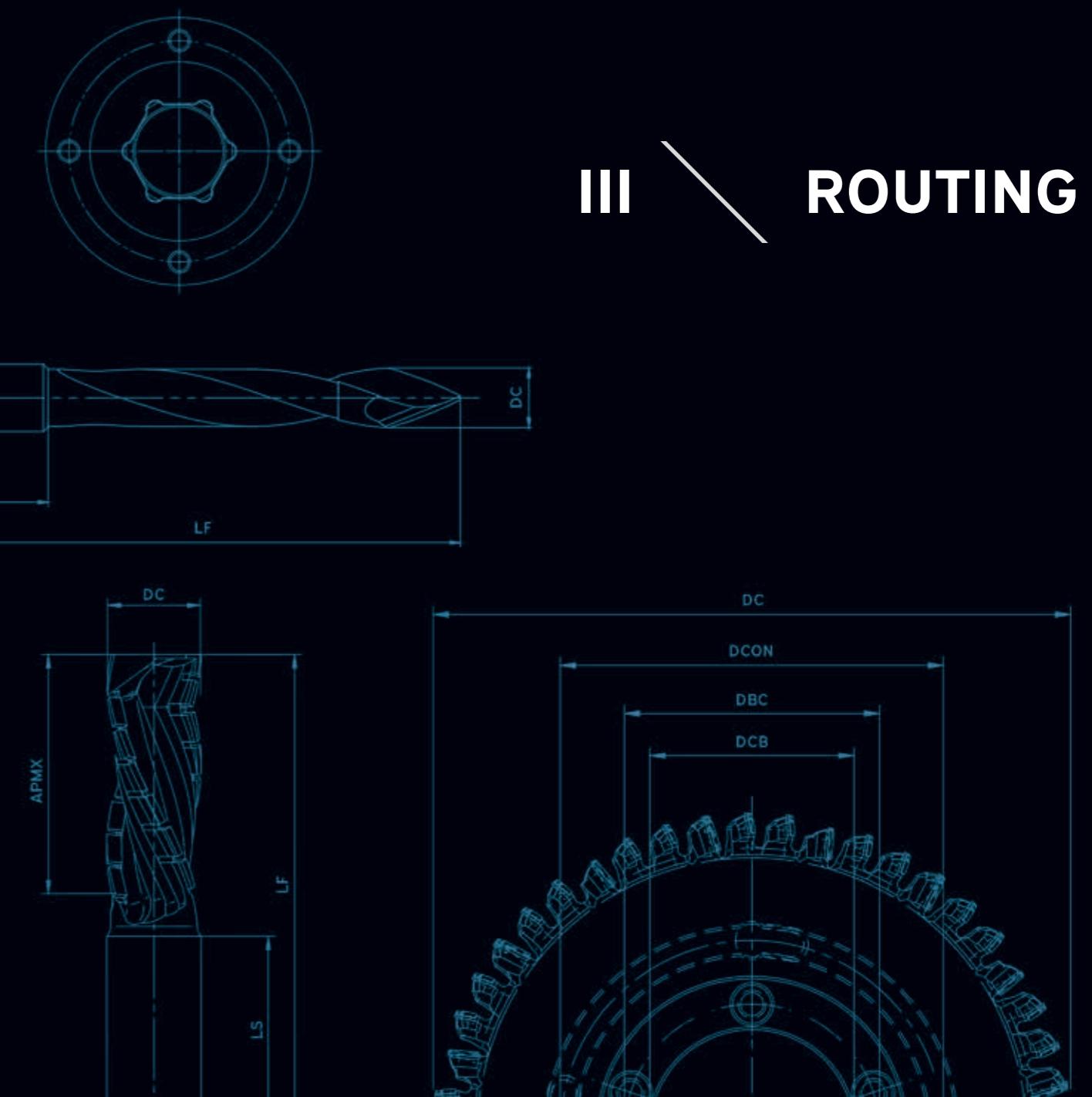
**DP**

MOUNTING Ø 30			INDICATION	ROT. DIRECTION	
DCX	DCB	ZEFP		L	R
160	35	3	NR04-60063504	•	•



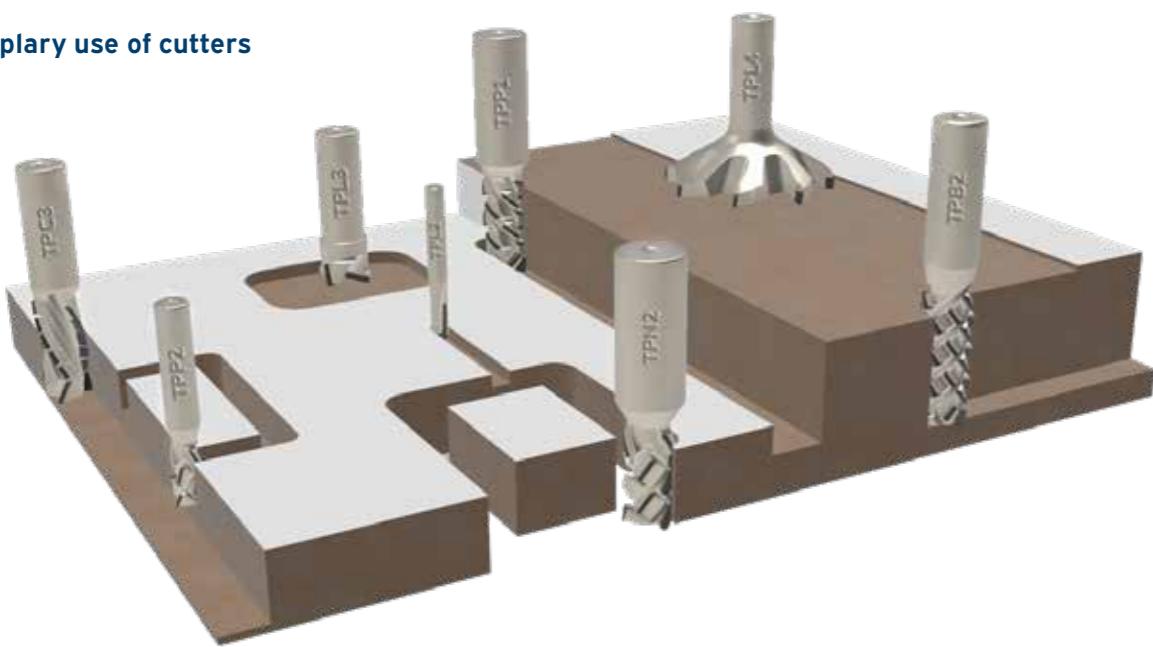
III

**ROUTING**

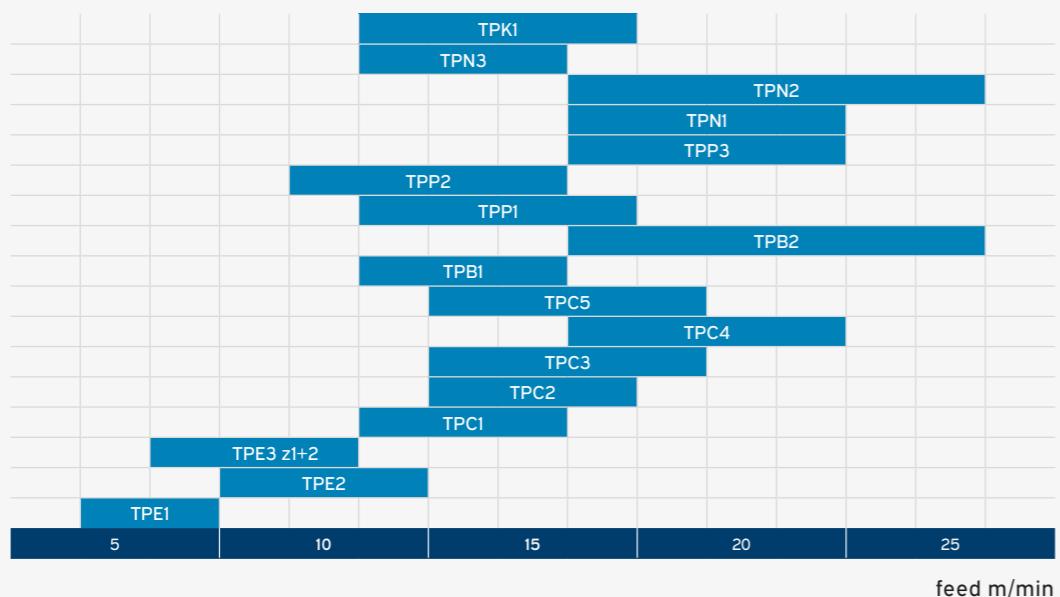


# TECHNICAL SECTION

## Exemplary use of cutters



## A simplified diagram for the selection of DP shank cutters, depending on the feed



The feed is always selected individually and mainly depends on type of the processed material, working height of the tool, general process conditions and the quality of the surface to be obtained.

## Holders for shank tools:

- Heat shrinkable holders
- Hydraulic chucks
- TRIBOS holders
- ER type mechanical holders

## Tool setting depending on the helical design



- Position the cutter with the negative helix to the bottom surface of the workpiece.



- Position the cutter with the positive helix to the upper surface of the workpiece.

## Main direction for wood chip evacuation

For optimal chip removal, tools with a positive helix or those with a predominance of a positive helix should be used.



- Negative helix with a cutting plate evacuates the wood chip downwards.



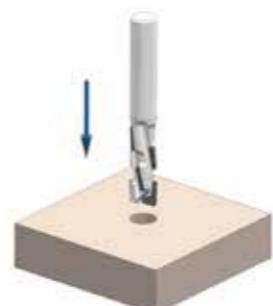
- Positive helix with a cutting plate evacuates the wood chip upwards.

## Fixing the workpiece

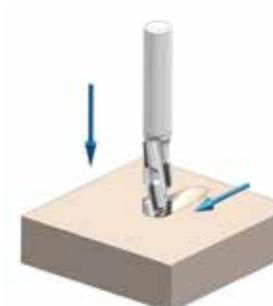
Stable clamping of the workpiece is very important for stationary machines.

Unstable clamping can significantly reduce the quality of cutting and service life of a tool.

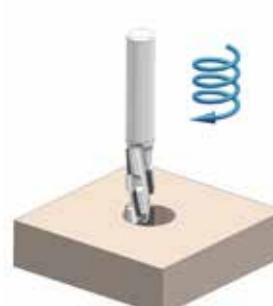
## Methods of drilling into the material



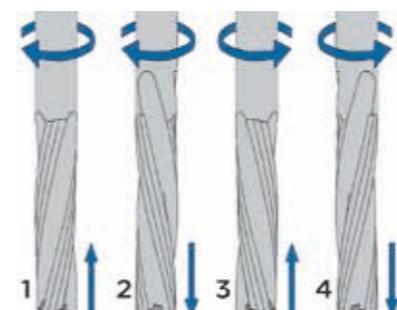
- Axial ramping. Possibility to work only with a milling cutter equipped with a drilling blade.



- Diagonal ramping



- Helical interpolation



## Cutters - direction of the helix

1. Positive right helix. Good flow of chips towards the extraction.
2. Negative right helix. Presses down the workpiece.
3. Positive left helix. Good flow of chips towards the extraction.
4. Negative left helix. Presses down the workpiece.

**Description:**

High-performance shank cutter for medium and high feeds rates.

**Application:**

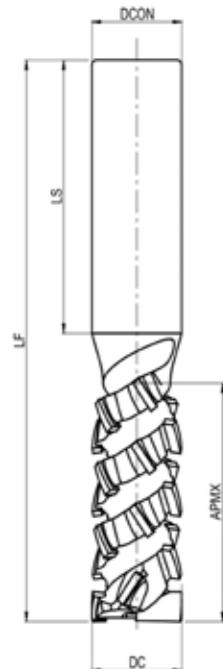
Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

**Information:**

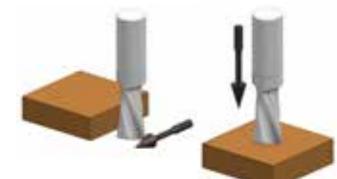
Tool with 2.5 mm DP blades. Two full cutting edges arranged in a helix and a negative blade angle allow you to process various plate heights with one tool. Alternating shear angles of the blade ensure good quality of the top and bottom edges in the processed material. The positive helix of the chip groove ensures a better chip removal in upwards direction. Multiple sharpening x5.

DP

CNC



DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
12	28	12	45	83	2	TPB1-012121201R	TPB1-012121201L
12	37	12	45	92	2	TPB1-012161201R	TPB1-012161201L
16	27	16	50	88	2	TPB1-016121601R	TPB1-016121601L
16	31	16	50	93	2	TPB1-016141601R	TPB1-016141601L
16	39	16	50	97	2	TPB1-016181601R	TPB1-018161601L
16	44	16	50	101	2	TPB1-016201601R	TPB1-016201601L
16	48	16	50	105	2	TPB1-016221601R	TPB1-016221601L
18	31	20	50	93	2	TPB1-018142001R	TPB1-018142001L
18	39	20	50	97	2	TPB1-018182001R	TPB1-018182001L
18	44	20	50	101	2	TPB1-018202001R	TPB1-018202001L
18	48	20	50	105	2	TPB1-018222001R	TPB1-018222001L
20	34	20	55	101	2	TPB1-020162001R	TPB1-020162001L
20	38	20	55	105	2	TPB1-020182001R	TPB1-020182001L
20	46	20	55	110	2	TPB1-020222001R	TPB1-020222001L
20	50	20	55	114	2	TPB1-020242001R	TPB1-020242001L
20	54	20	55	118	2	TPB1-020262001R	TPB1-020262001L

**Description:**

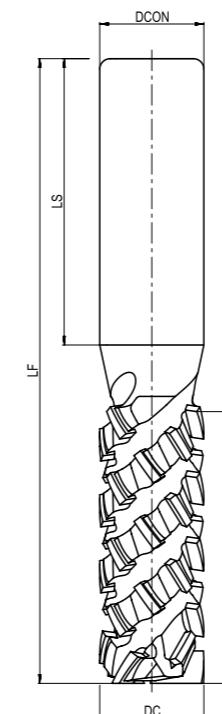
High-performance shank cutter for high feeds rates.

**Application:**

Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

**Information:**

Tool with 2.5 mm DP blades. Three divided cutting edges arranged in a helix and a negative blade angle allow you to process various plate heights with one tool. Alternating shear angles of the blade ensure good quality of the top and bottom edges in the processed material. A specially designed chip groove ensures better evacuation of the chip in upwards direction. Multiple sharpening x5.



DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
20	38	20	55	105	3	TPB2-020 27 20 01R	TPB2-020 27 20 01L
20	46	20	55	110	3	TPB2-020 33 20 01R	TPB2-020 33 20 01L
20	50	20	55	114	3	TPB2-020 36 20 01R	TPB2-020 36 20 01L
20	54	20	55	118	3	TPB2-020 39 20 01R	TPB2-020 39 20 01L
25	38	25	55	105	3	TPB2-025 27 25 01R	TPB2-025 27 25 01L
25	46	25	55	110	3	TPB2-025 33 25 01R	TPB2-025 33 25 01L
25	50	25	55	114	3	TPB2-025 36 25 01R	TPB2-025 36 25 01L
25	54	25	55	118	3	TPB2-025 39 25 01R	TPB2-025 39 25 01L



**Description:**

Shank cutter with negative spiral for medium to high feed.

**Application:**

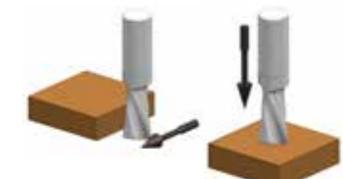
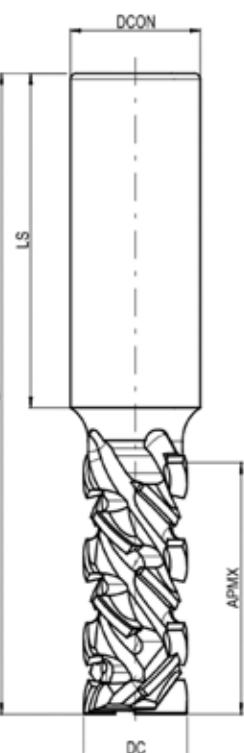
Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

**Information:**

Tool with 3.2 mm DP blades. The large axial angle of 50 degrees ensures excellent quality of the edge processing in boards covered with laminate, foil or thin paper veneer. Two full blades arranged on four helices ensure stable operation, and the optimized insert geometry ensures long service life. Multiple sharpening x7.

DP

CNC

**Description:**

Shank cutter with negative spiral for medium to high feed.

**Application:**

Used for formatting, cutting, grooving, rebating, copying the chipboard, MDF, raw board, melamine and paper, HPL, veneer, foil-covered materials.

**Information:**

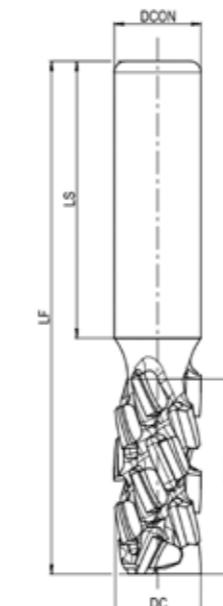
Tool with 3 mm DP blades. Design of the tool with 3 full blades ensures high-performance milling with perfect quality of the machined edges, thanks to positioning of the blades with a positive and negative axial angle.

**Multiple sharpening:**

- DC 12 DP 2.5mm assumed number of sharpening 5.
- DC 16 DP 3.0mm assumed number of sharpening 6.

DP

CNC



DC*	APMX	DCON	LS	LF	ZEFP	INDICATION	
12	24	12	50	80	3	TPP2-012121201R	TPP2-012121201L
12	30	12	50	85	3	TPP2-012151201R	TPP2-012151201L
16	24	16	50	85	3	TPP2-016121601R	TPP2-016121601L
16	24	25	60	100	3	TPP2-016122501R	TPP2-016122501L
16	30	16	50	90	3	TPP2-016151601R	TPP2-016151601L
16	30	25	60	105	3	TPP2-016152501R	TPP2-016152501L
16	35	16	50	95	3	TPP2-016181601R	TPP2-016181601L
16	35	25	60	110	3	TPP2-016182501R	TPP2-016182501L
16	40	16	50	100	3	TPP2-016211601R	TPP2-016211601L
16	40	25	60	115	3	TPP2-016212501R	TPP2-016212501L

\*Ø12 with highly stiff tool body. Ø16 with stiff tool body



DP

CNC

**Description:**

Shank cutter with negative spiral for medium to high feed.

**Application:**

Used for leveling, formatting, cutting, perimeter processing, chipboard, MDF, raw board, melamine and paper, HPL, veneer, foil-covered materials.

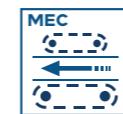
**Information:**

Tool with 3.5 mm DP blades. The cutters are designed for very efficient operation while maintaining the highest quality of the processed material. Four blades, which cut simultaneously, are positioned at a very large axial angle and ensure unrivaled service life, as well as quiet and stable operation of the tool. Multiple sharpening x5. No drilling possible.



DP

CNC

**Description:**

Positive spiral shank cutter for medium to high feed.

**Application:**

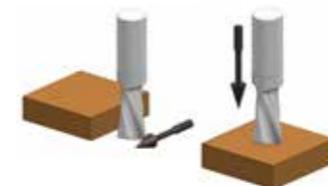
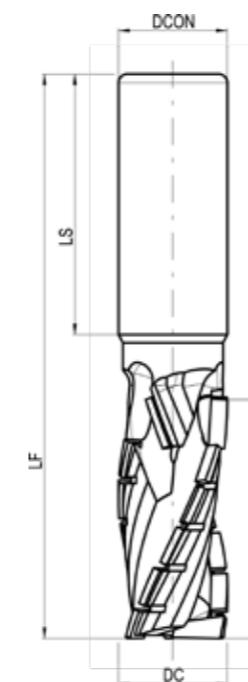
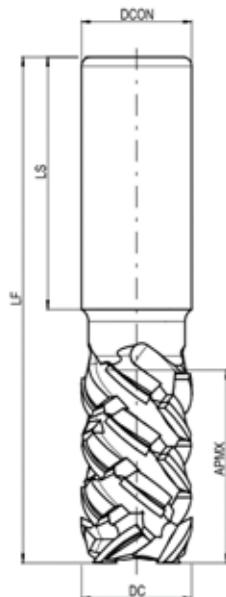
For nesting, formatting and cutting operations. Chipboard, MDF, raw boards, melamine and paper, HPL, veneer, foil-covered materials.

**Information:**

Tool with 3.8 mm DP blades. Design of the tool ensures optimal cutting quality, and as a result of the axial angle directed from the bottom it provides very good chip evacuation, and the insert cutting from the top provides very good quality of the top edge. Multiple sharpening x8. Position the cutter to the top plane of the workpiece.

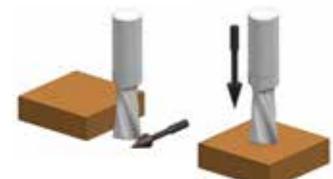
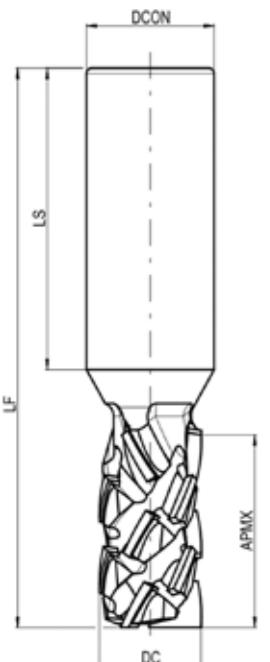
DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
25	32	25	55	100	4	TPP3-025162501R	TPP3-025162501L
25	32	20	60	100	4	TPP3-025162001R	TPP3-025162001L
25	42	25	55	110	4	TPP3-025202501R	TPP3-025202501L

DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
25	40	20	50	100	3	TPNI-025152001R	TPNI-025152001L
25	48	25	60	120	3	TPNI-025152501R	TPNI-025152501L
25	55	25	60	130	3	TPNI-025182502R	TPNI-025182502L





**DP**    **CNC**



#### Description:

Positive spiral shank cutter for medium to high feed.

#### Application:

For nesting, formatting and cutting operations. Chipboard, MDF, raw boards, melamine and paper, HPL, veneer, foil-covered materials.

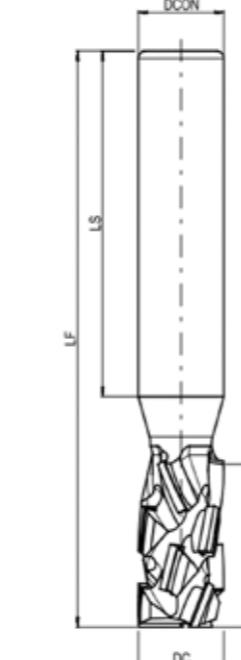
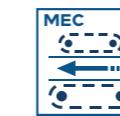
#### Information:

Tool with 2.8 mm DP blades. Innovative design of shank tools with more densely packed cutting edges arranged in a helix at a large angle. The cutters are constructed for very efficient operation with the highest quality of material processing. Three full cutting blades guarantee unbeatable durability, as well as quiet and stable operation. Multiple sharpening x6. Position the cutter to the top plane of the workpiece.

DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
20	30	25	55	97	3	TPN2-020122501R	TPN2-020122501L
20	35	25	55	102	3	TPN2-020152501R	TPN2-020152501L
20	40	25	55	107	3	TPN2-020182501R	TPN2-020182501L
25	35	25	55	102	3	TPN2-025152501R	TPN2-025152501L
25	40	25	55	107	3	TPN2-025182501R	TPN2-025182501L
25	45	25	55	112	3	TPN2-025212501R	TPN2-025212501L
25	50	25	55	117	3	TPN2-025242501R	TPN2-025242501L



**DP**    **CNC**



#### Description:

Positive spiral shank cutter for medium feed.

#### Application:

For nesting, formatting and cutting operations. Chipboard, MDF, raw boards, melamine and paper, HPL, veneer, foil-covered materials.

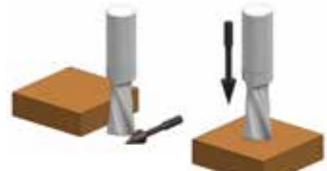
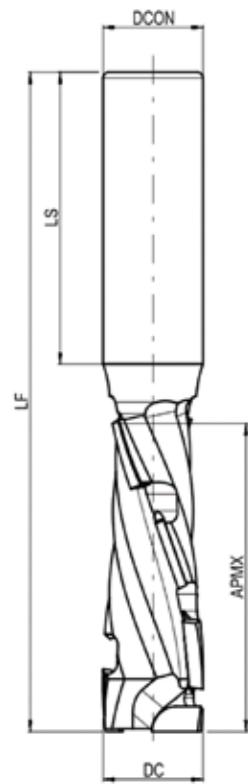
#### Information:

Tool with 2.2 mm DP blades. Design of the tool ensures optimal cutting quality, thanks to the axial angle directed from the bottom it provides very good chip evacuation, and the insert cutting from the top provides very good quality of the top edge. Multiple sharpening x3. Position the cutter to the top plane of the workpiece.

DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
12	21	12	45	75	3	TPN3-012121201R	TPN3-012121201L
12	25	12	45	80	3	TPN3-012151201R	TPN3-012151201L



**DP**      **CNC**



#### Description:

Shank cutter with negative spiral for low to medium feed. With HW plunge tip.

#### Application:

Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

#### Information:

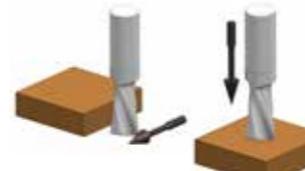
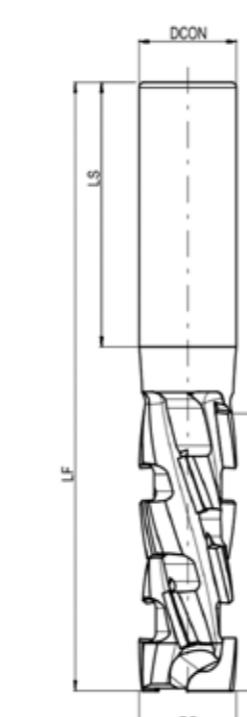
Tool with DP blades. Split cutting edges with alternating shear angles ensure good quality of the processed material edge.

Multiple sharpening:

- > DC 16 DP 2.5mm - assumed number of sharpening 5.
- > DC 18-20 DP 3.0mm - assumed number of sharpening 6.



**DP**      **CNC**



#### Description:

Shank cutter with negative spiral for medium feed.

#### Application:

Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

#### Information:

Tool with DP blades. Divided cutting edges with alternating shear angles ensure good quality of the processed material edge. Larger gaps between the plates make evacuation of the chip easier.

Multiple sharpening:

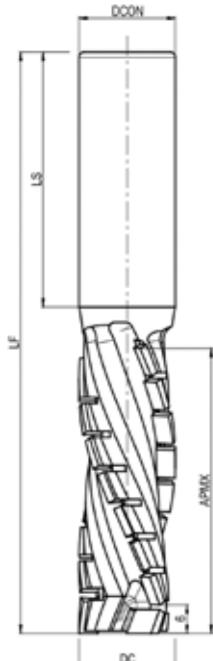
- > DP 16-18 DP 2.5mm assumed number of sharpening 5.
- > DP 20-25 DP 3.0mm assumed number of sharpening 6.

DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
16	26	16	50	90	1	TPC1-016041601R	TPC1-016041601L
16	35	16	50	96	1	TPC1-016051601R	TPC1-016051601L
16	43	16	50	105	1	TPC1-016061601R	TPC1-016061601L
18	35	20	50	96	1	TPC1-018052001R	TPC1-018052001L
18	43	20	50	105	1	TPC1-018062001R	TPC1-018062001L
18	52	20	50	113	1	TPC1-018072001R	TPC1-018072001L
20	43	20	50	105	1	TPC1-020062001R	TPC1-020062001L
20	52	20	50	113	1	TPC1-020072001R	TPC1-020072001L
20	60	20	50	122	1	TPC1-020082001R	TPC1-020082001L



DP

CNC

**Description:**

Shank cutter with negative spiral for medium to high feed.

**Application:**

Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

**Information:**

Tool with DP blades. Split cutting edges with alternating shear angles ensure good quality of the processed material edge.

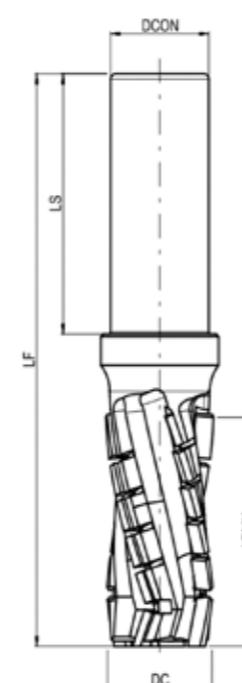
Multiple sharpening:

- DC 16 DP 2.7mm assumed number of sharpening 5.
- DC 20-25 DP 3.7mm assumed number of sharpening 8.



DP

CNC

**Description:**

Shank cutter with negative spiral for high feeds.

**Application:**

Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

**Information:**

Tool with 3.7 mm DP blades. Split cutting edges with alternating shear angles ensure good quality of the processed material edge. Multiple sharpening x8.

DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
16	21	16	50	80	3	TPC3-016091601R	TPC3-016091601L
16	27	16	50	90	3	TPC3-016121601R	TPC3-016121601L
16	34	16	50	95	3	TPC3-016151601R	TPC3-016151601L
16	40	16	50	100	3	TPC3-016181601R	TPC3-016181601L
20	33	20	50	95	3	TPC3-020152001R	TPC3-020152001L
20	40	20	50	100	3	TPC3-020182001R	TPC3-020182001L
20	47	20	50	110	3	TPC3-020212001R	TPC3-020212001L
20	53	20	50	115	3	TPC3-020242001R	TPC3-020242001L
25	33	25	55	100	3	TPC3-025152501R	TPC3-025152501L
25	40	25	55	105	3	TPC3-025182501R	TPC3-025182501L
25	47	25	55	115	3	TPC3-025212501R	TPC3-025212501L
25	53	25	55	120	3	TPC3-025242501R	TPC3-025242501L
25	60	25	55	125	3	TPC3-025272501R	TPC3-025272501L
25	67	25	55	130	3	TPC3-025302501R	TPC3-025302501L

**Description:**

Shank cutter with negative spiral for medium feeds.

**Application:**

Used on CNC machines for peripheral milling, cutting, laminated chipboard, boards covered with other types of decors, MDF boards and other wood-based materials.

**Information:**

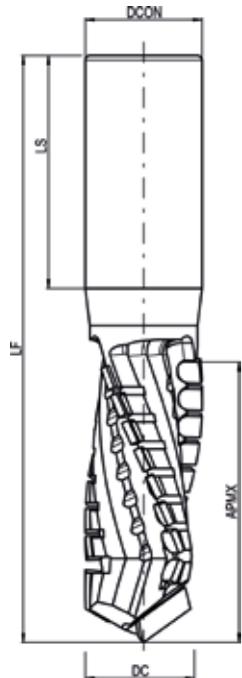
Tool with 5 mm DP blades. Split cutting edges with alternating shear angles ensure good quality of the processed material edge. Drilling blade - through construction. Multiple sharpening x10.

DP

CNC



DC	APMX	DCON	LS	LF	ZEFP	INDICATION
20	48	20	50	115	3	TPC5-020192001R TPC5-020192001L
20	60	20	50	126	3	TPC5-020252001R TPC5-020252001L
25	48	25	50	115	3	TPC5-025192501R TPC5-025192501L
25	60	25	50	126	3	TPC5-025252501R TPC5-025252501L

**Description:**

Double-sided shank cutter with negative spiral for medium feeds.

**Application:**

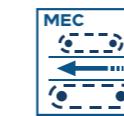
Formatting, cutting, anti-tearing processing of chipboard, MDF, raw and coated boards.

**Information:**

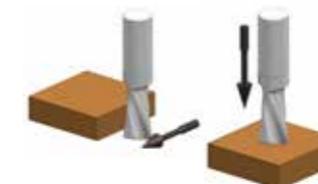
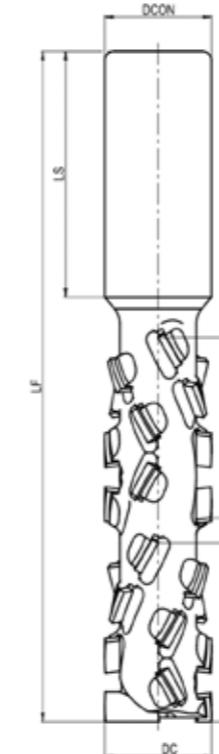
Tool with 3.5 mm DP blades. Efficient formatting of taped materials with perfect quality of the processed edges. By moving the tools in axial direction and changing direction of rotation, we can freely process end corners that are susceptible to tearing out when using one tool. The tool can operate with right or left hand rotations and be used as a undercutting cutter. Multiple sharpening x8.

DP

CNC



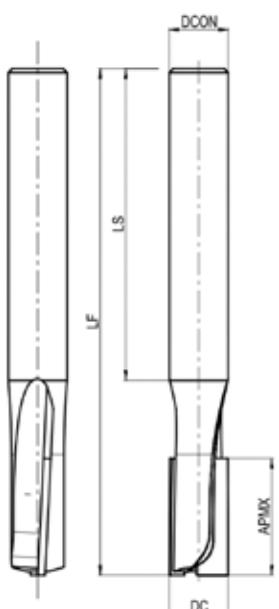
DC	APMX	DCON	LS	LF	ZEFP	INDICATION
25	28	25	55	128	2	TPKI-025202501PL
25	35	25	55	140	2	TPKI-025242501PL
25	40	25	55	150	2	TPKI-025282501PL





DP

CNC



## TPL1

**Description:**

Shank cutter with positive or zero axial angle for grooving.

**Application:**

Cutting grooves, rebating, drilling. Solid hard wood, veneered materials: MDF, HDF, sack board, plywood.

**Information:**

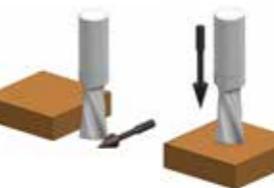
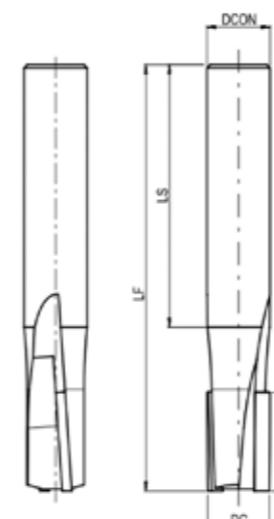
Tool with DP blades. The design of the cutter ensures very good quality of the processed surface thanks to the uniform DP blade. Multiple sharpening.

DC	APMX	DCON	LS	LF	AXIAL RANGE	ZEFP	BODY	INDICATION	
6	10	6	40	60	-	2	HW	TPL1-006020601R	TPL1-006020601L
7	10	8	40	60	-	2	HW	TPL1-007020801R	TPL1-007020801L
8	10	8	40	60	-	2	HW	TPL1-008020801R	TPL1-008020801L
8	15	8	40	65	-	2	HW	TPL1-008020802R	TPL1-008020802L
10	15	10	40	65	-	2	HW	TPL1-010021001R	TPL1-010021001L
10	20	10	40	70	-	2	HW	TPL1-010021002R	TPL1-010021002L
10	25	10	40	75	-	2	HW	TPL1-010021003R	TPL1-010021003L
12	10	12	45	65	-	2	HW	TPL1-012021201R	TPL1-012021201L
12	15	12	45	70	-	2	HW	TPL1-012021202R	TPL1-012021202L
12	20	12	45	75	-	2	HW	TPL1-012021203R	TPL1-012021203L
12	25	12	45	80	-	2	HW	TPL1-012021204R	TPL1-012021204L
15	30	12	50	85	+	2	steel	TPL1-015021201R	TPL1-015021201L
16	18	16	50	80	-	2	steel	TPL1-016021601R	TPL1-016021601L
16	18	20	50	80	-	2	steel	TPL1-016022001R	TPL1-016022001L
16	20	16	50	80	+	2	steel	TPL1-016021605R	TPL1-016021605L
16	24	16	50	85	-	2	steel	TPL1-016021604R	TPL1-016021604L
16	42	16	50	105	+	2	steel	TPL1-016021603R	TPL1-016021603L
18	25	12	50	80	+	2	steel	TPL1-018021201R	TPL1-018021201L
18	25	18	50	80	+	2	steel	TPL1-018021801R	TPL1-018021801L
18	32	20	50	92	+	2	steel	TPL1-018022001R	TPL1-018022001L
18	42	20	50	105	+	2	steel	TPL1-018022003R	TPL1-018022003L
20	20	20	50	80	+	2	steel	TPL1-020022001R	TPL1-020022001L
20	42	20	50	105	+	2	steel	TPL1-020022003R	TPL1-020022003L



DP

CNC



## TPL2

**Description:**

Shank cutter with negative axial angle for grooving.

**Application:**

Cutting grooves, rebating, drilling. Processed materials: solid hard wood, veneered materials: MDF, HDF, sack board, plywood.

**Information:**

A negative axial angle improves the quality of the machined edge. Uniform surface of the plate ensures a very good quality of the processed surface.

- body made of durable steel or VHW.
- VHW drilling blade.

DC	APMX	DCON	LS	LF	AXIAL RANGE	ZEFP	BODY	INDICATION	
6	10	6	40	60	0	2	HW	TPL2-006020601R	TPL2-006020601L
7	10	8	40	60	0	2	HW	TPL2-007020801R	TPL2-007020801L
8	10	8	40	65	0	2	HW	TPL2-008020801R	TPL2-008020801L
8	15	8	40	65	0	2	HW	TPL2-008020802R	TPL2-008020802L
10	15	10	40	65	0	2	HW	TPL2-010021001R	TPL2-010021001L
10	20	10	40	70	0	2	HW	TPL2-010021002R	TPL2-010021002L
10	25	10	40	75	0	2	HW	TPL2-010021003R	TPL2-010021003L
12	10	12	45	65	0	2	HW	TPL2-012021201R	TPL2-012021201L
12	15	12	45	70	0	2	HW	TPL2-012021202R	TPL2-012021202L
12	20	12	45	75	0	2	HW	TPL2-012021203R	TPL2-012021203L
12	25	12	45	80	0	2	HW	TPL2-012021204R	TPL2-012021204L

## MANDREL TOOLS



## TPL3

**Description:**

Shank cutter for planing.

**Application:**

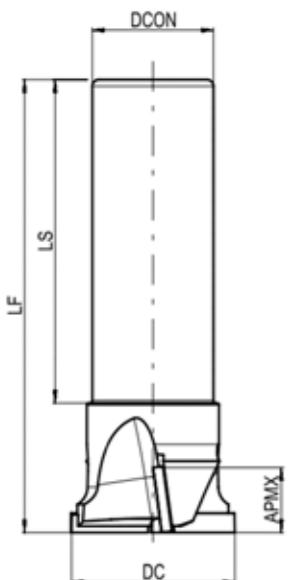
Cutting grooves, rebating, drilling, milling surfaces. Processed materials: solid hard wood, veneered materials: MDF, HDF, plywood, sack board.

**Information:**

Tool with DP blades. The design of the cutters ensures very good quality of the processed edge thanks to the position of the blades with a negative axial angle, dedicated to pockets and rebates. Multiple sharpening.

DP

CNC



## MANDREL TOOLS



## TPL4

**Description:**

Shank cutter for planing.

**Application:**

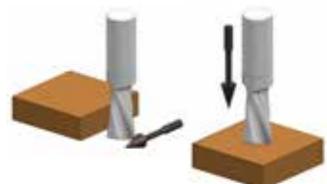
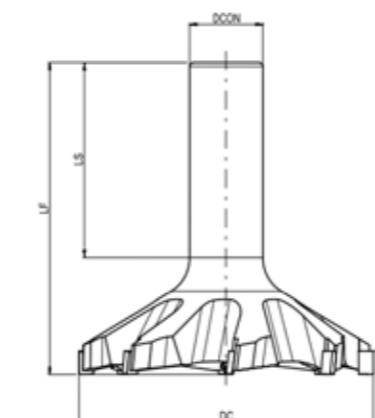
For face milling. Designation: Plastics and wood-based materials.

**Information:**

Tool with DP blades. High performance when leveling table tops and large flat surfaces, e.g. in the nesting process.

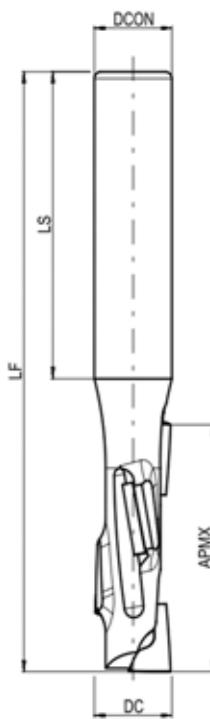
DP

CNC





**DP**    **CNC**



#### Description:

Economical shank cutter with negative spiral for low feed.

#### Application:

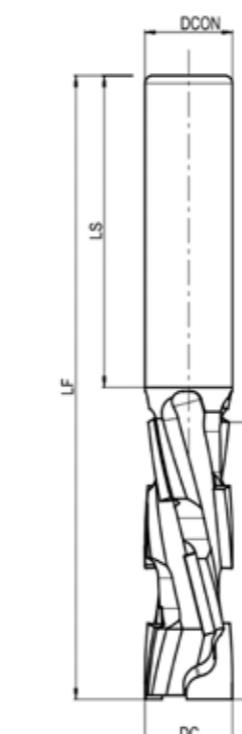
Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

#### Information:

Tool with 2 mm DP blades. One cutting edge with alternating shear angles ensures good quality of the processed material edge. Multiple sharpening x3.



**DP**    **CNC**



#### Description:

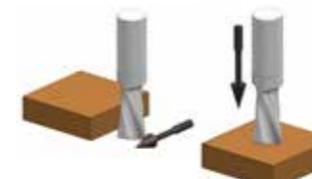
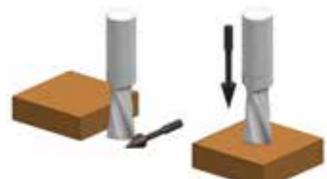
Economical shank cutter with negative cutting spiral for low and medium feed.

#### Application:

Used on CNC machines for peripheral milling, cutting, rebating and grooving the laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

#### Information:

Tool with 2 mm DP blades. Two cutting edges with alternating shear angles ensure good quality of the processed material edge. Multiple sharpening x3.



**Description:**

Economical shank cutter with negative cutting spiral for low and medium feed.

**Application:**

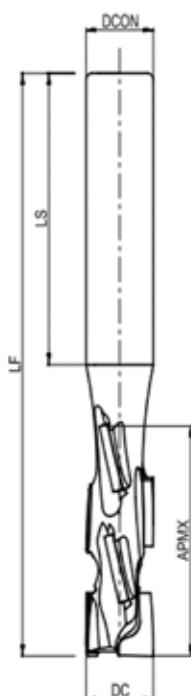
Used on CNC machines for peripheral milling, cutting, rebating and grooving of laminated chipboard, board covered with other types of decors, MDF board and other wood-based materials.

**Information:**

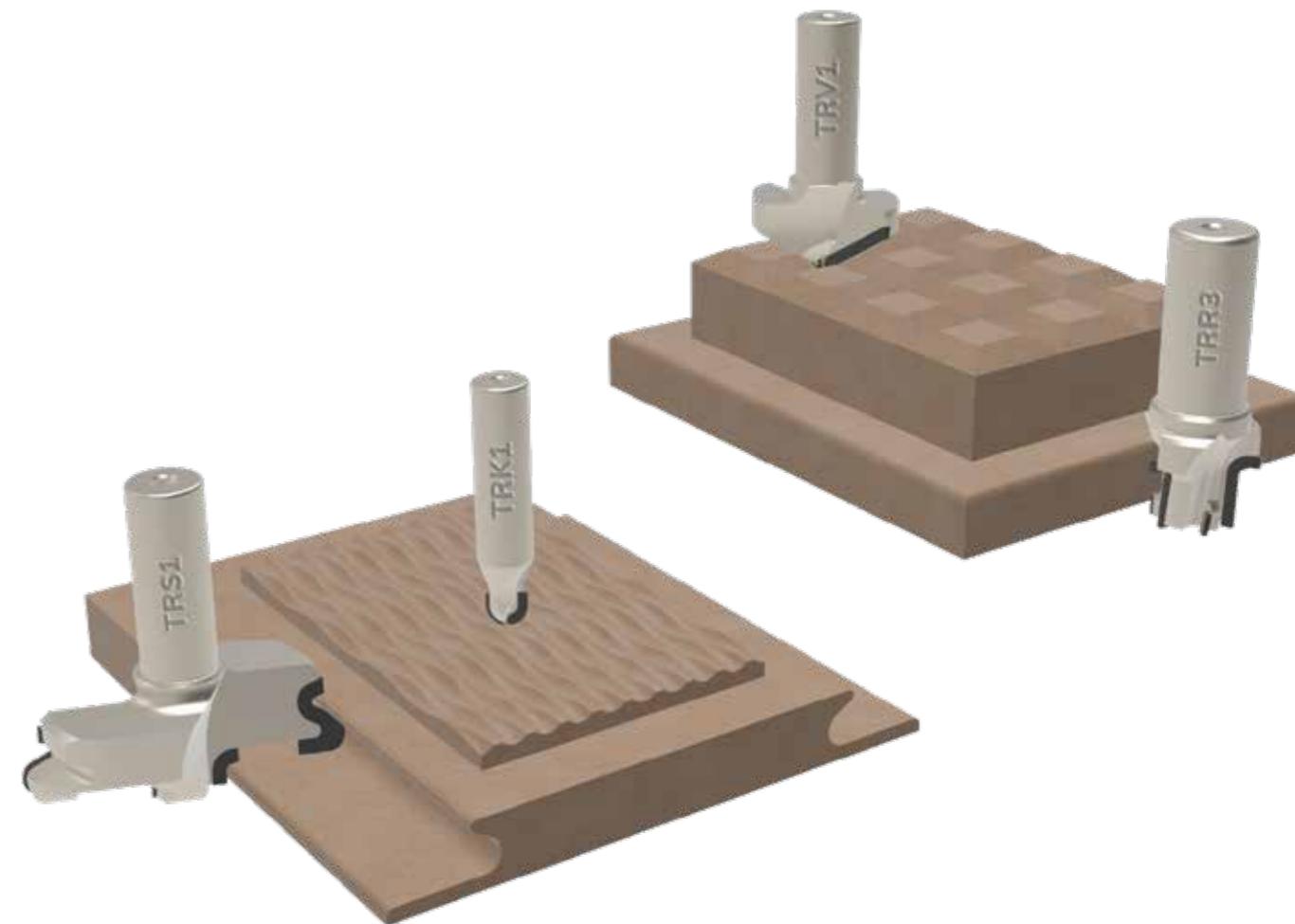
Tool with 2 mm DP blades. Split cutting edges with alternating shear angles ensure good quality of the processed material edge. Multiple sharpening x3. Maximum performance of the milling cutter with the processed material in the range of 16-22mm.

DP

CNC



DC	APMX	DCON	LS	LF	ZEFP	INDICATION	
12	27	12	45	80	1+2	TPE3-012051201R	TPE3-012051201L
12	35	12	45	90	1+2	TPE3-012061201R	TPE3-012061201L
16	27	16	50	85	1+2	TPE3-016051601R	TPE3-016051601L
16	35	16	50	95	1+2	TPE3-016061601R	TPE3-016061601L
16	44	16	50	105	1+2	TPE3-016071601R	TPE3-016071601L
20	35	20	50	95	1+2	TPE3-020062001R	TPE3-020062001L
20	44	20	50	105	1+2	TPE3-020072001R	TPE3-020072001L
20	52	20	50	110	1+2	TPE3-020082001R	TPE3-020082001L



Profile shank tools used on CNC machines shape and profile the processed material.

**Description:**

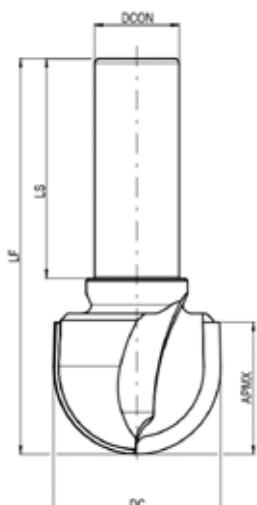
Ball type profile shank cutter.

**Application:**

Profile milling in wood-based and wooden materials.

**Information:**

The tool with DP blades provides a very good surface finish.



DC	APMX	DCON	LS	LF	ZEFP	R	INDICATION
6	8	12	50	65	2	3	TRK1-006021201R
8	10	12	50	65	2	4	TRK1-008021201R
10	6,5	10	40	60	2	5	TRK1-010021002R
10	9	25	60	82,5	2	5	TRK1-010022502R
12	9	16	50	70	2	6	TRK1-012021603R
14	20	16	65	100	2	7	TRK1-014021602R
14	12	20	65	95	2	7	TRK1-014022001R
18	20	20	65	100	2	9	TRK1-018022002R
19	11,5	12	40	55	2	8,5	TRK1-019021202R
20	14	20	55	85	2	10	TRK1-020022009R
20	14	25	60	90	2	10	TRK1-020022501R
30	18	20	50	73	2	15	TRK1-030022006R
32	19	12	40	65	2	16	TRK1-032021202R
40	30	20	50	90	2	20	TRK1-040022011R

**Description:**

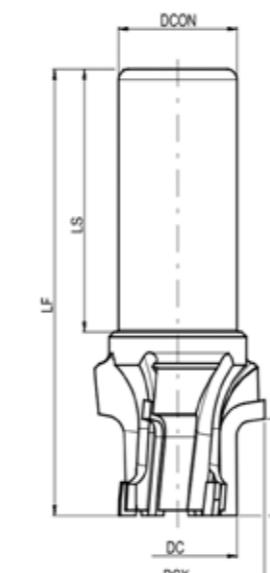
Profile shank cutter.

**Application:**

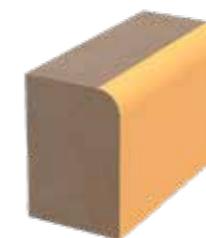
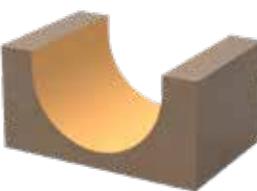
Rounding the edges in wood-based and wooden materials.

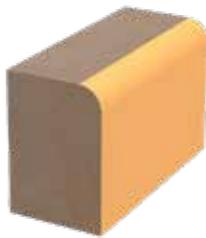
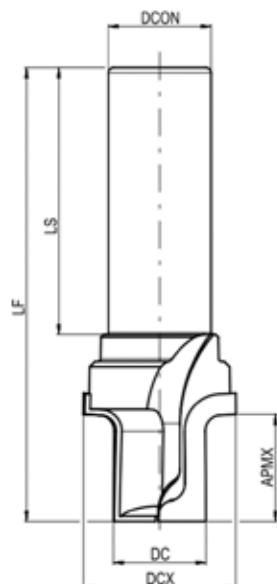
**Information:**

Tool with DP blades. High-performance cutter designed for profiling. Innovative design with additional blades. The cutters are designed for very efficient operation, while maintaining the highest quality of the processed material.



R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
3	37	25	18,45	25	50	85	3+3	no	TRR3-037062501R
3	37	25	18,45	25	50	85	3+3	yes	TRR3-037072501R
3	37	25	21,45	25	50	85	3+3	no	TRR3-037062502R
3	37	25	21,45	25	50	85	3+3	yes	TRR3-037072502R



**Description:**

Profile shank cutter.

**Application:**

Rounding the edges in wood-based and wooden materials.

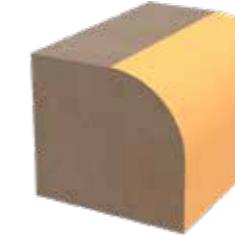
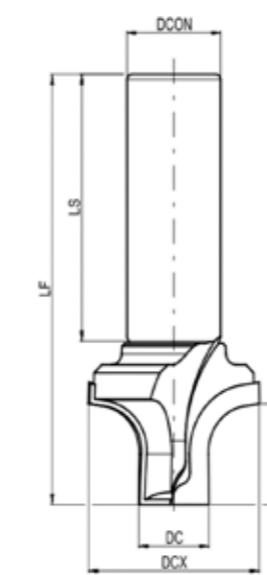
**Information:**

The tool with DP blades provides a very good surface finish.

R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
1	14	8	2,8	25	50	70	1	yes	TRRI-014012501R
1	28	20	21,4	25	50	85	4	no	TRRI-028042501R

R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
2	10	4	4	25	50	65	1	yes	TRRI-010012503R
2	20	12	18,5	16	50	80	2	yes	TRRI-020021605R
2	20	12	19,5	20	50	85	2	yes	TRRI-020022004R
2	24	16	17,5	20	50	82	3	yes	TRRI-024032001R
2	25	16	18,8	20	50	85	2	yes	TRRI-025022003R
2	26	14	24	20	50	90	2	yes	TRRI-026022009R
2	28	16	25,6	20	50	88	2	yes	TRRI-028022007R
2	30	20	18,4	20	50	80	3	no	TRRI-030032001R

R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
3	22	11,8	16,3	16	48	80	2	yes	TRRI-022021602R
3	24	14	21,2	25	50	85	2	yes	TRRI-024022501R
3	25	15	16,7	20	50	80	2	no	TRRI-025022007R
3	25	15	18,7	20	50	80	2	yes	TRRI-025022011R
3	26	14	24,3	20	50	88	2	yes	TRRI-026022005R
3	26	16	20	25	50	85	2	yes	TRRI-026022502R
3	28	20	24,4	20	50	90	2	no	TRRI-028022017R
3	32	20	22,3	25	50	90	2	no	TRRI-032022501R
3	32	20	23,3	25	50	90	2	no	TRRI-032022505R
3	32	20	34,4	20	50	100	2	yes	TRRI-032022013R
3	32	20	25	25	50	90	2	no	TRRI-032022506R
3	32	20	24,4	25	50	88	3	no	TRRI-032032501R
3	32	20	30,4	25	50	94	3	no	TRRI-032032502R
3	33	21	24,4	25	50	88	4	no	TRRI-033042501R

**Description:**

Profile shank cutter.

**Application:**

Rounding the edges in wood-based and wooden materials.

**Information:**

The tool with DP blades provides a very good surface finish.

R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
4	32	20	21	20	50	90	2	yes	TRR2-032022015R
5	29	15	18,7	20	50	80	2	yes	TRR2-029022006R
5	30	14	22,4	20	50	88	2	yes	TRR2-030022005R
5	30	16	18,8	20	50	85	2	yes	TRR2-030022008R
5	30	16	15,2	20	50	80	2	no	TRR2-030022016R
5	34	20	27,3	25	50	90	3	no	TRR2-034032501R

R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
6	28	11,8	24,2	20	50	90	2	yes	TRR2-028022006R
6	31	16	17,5	20	50	82	3	yes	TRR2-031032007R
6	38	23	35	20	50	105	3	yes	TRR2-038032001R
6	38	20	20,5	25	50	85	4	no	TRR2-038042501R

R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
7	34	14	27	20	50	92	2	no	TRR2-034022004R
7	37	15	19	20	50	80	2	no	TRR2-037022007R

R	DCX	DC	APMX	DCON	LS	LF	ZEFP	POSSIBILITY OF DRILLING	INDICATION
8	30	12	16,5	16	50	82	2	yes	TRR2-030021601R
9	37	15	18,7	20	50	80	2	yes	TRR2-037022008R
10	45	20	21	25	50	90	2	no	TRR2-045022502R
12	50	23	35	20	50	105	3	yes	TRR2-050032001R
15	52	16	19,3	20	50	90	2	yes	TRR2-052022002R
15	54	20	24,2	25	50	90	2	yes	TRR2-054022503R
18	50	14	25	20	50	92	2	yes	TRR2-050022015R
24	64	16	28	20	50	95	2	yes	TRR2-064022003R
25	70	16	26,2	25	45	90	2	yes	TRR2-070022502R
28	85	18	30,5	25	50	100	2	yes	TRR2-085022501R

**Description:**

Profile shank cutter.

**Application:**

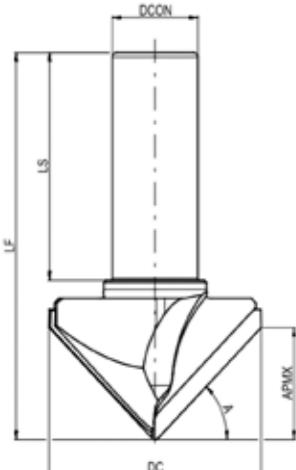
Profile milling in wood-based and wooden materials.

**Information:**

Tool with DP blades. Durable steel body. The tool provides a very good finish of the processed surface.



A	DC	APMX	DCON	LS	LF	ZEFP	INDICATION
15	36	4,8	20	50	70	2	TRVI-036022009R
30	56	16	20	50	80	2	TRVI-056022007R
45	28	13,7	20	50	80	2	TRVI-028022004R
45	36	17,6	20	50	80	2	TRVI-036022006R
45	50	24,5	20	50	85	2	TRVI-050022020R

**Description:**

Profile shank cutter.

**Application:**

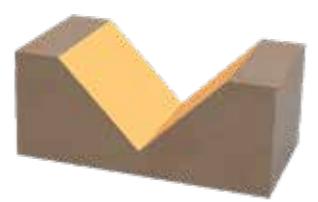
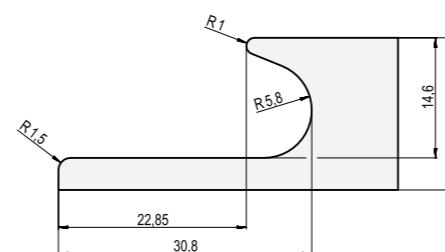
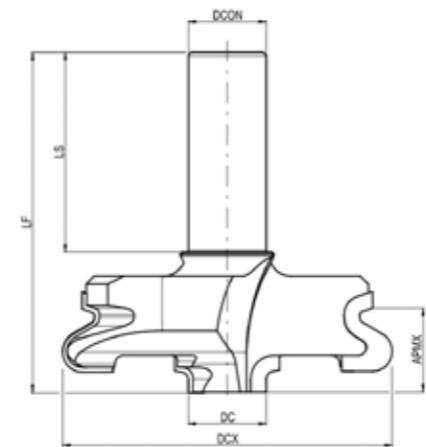
Profile milling of MDF and HPL boards.

**Information:**

Tool with DP blades. The profile cutter for handrail with an additional rounding on the lower edge ensures a very good finish of the processed surface.



DCX	DC	APMX	DCON	LS	LF	ZEFP	INDICATION
80	18,4	20,8	20	50	85	2+2	TRS1-08004201R



**Description:**

Profile shank cutter.

**Application:**

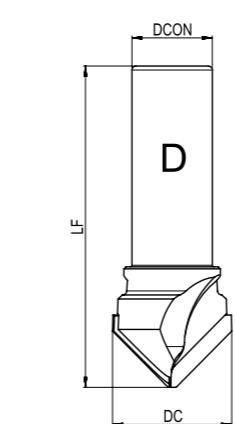
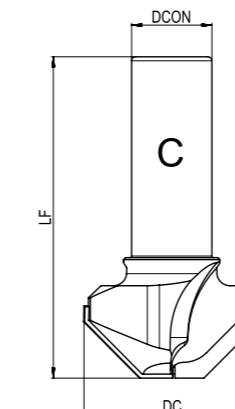
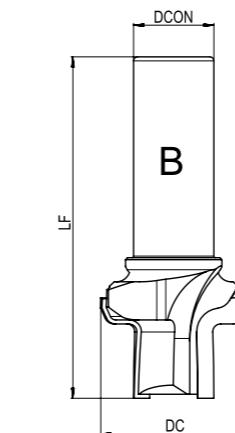
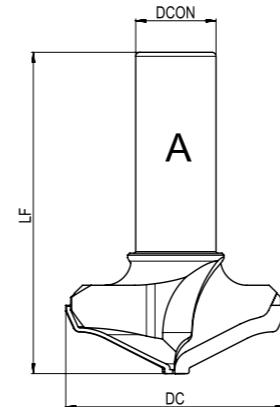
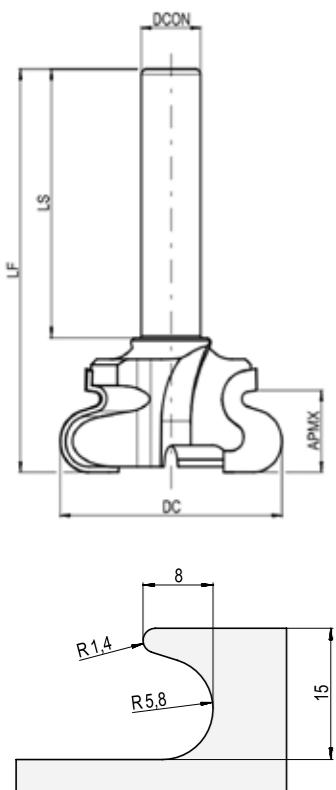
Profile milling, MDF and HPL boards.

**Information:**

Tool with DP blades. The profile cutter for handrail with an additional rounding on the lower edge ensures a very good finish of the processed surface.



DC	APMX	DCON	LS	LF	ZEFP	INDICATION
45	15.2	12	50	75	2	TRS2-045021201R

**Description:**

Profile milling tool kit.

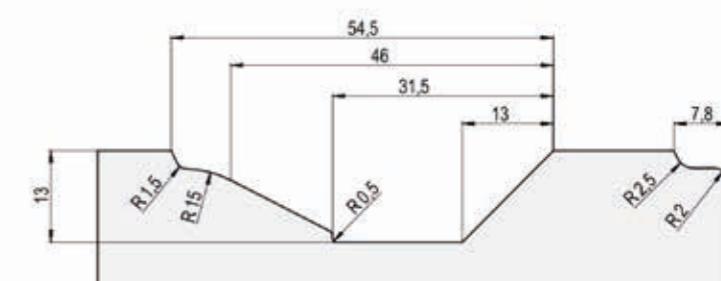
**Application:**

Profile milling in wood-based and wooden materials.

**Information:**

A set of tools for milling a furniture front according to pattern.

FREZ	DC	LF	DCON	ZEFP	INDICATION
A	20	80	20	2	TR05-5022008R
B	37	85	20	2	TR03-7022009R
C	44	80	20	2	TR04-4022009R
D	34	80	20	2	TR03-4022008R



**FPP01**

PRO

**FPP13**

PRO

**Description:**

Solid carbide shank cutter with helical grooves. Positive spiral - evacuation of the chip towards the holder. Cutter with possibility of drilling. Coated version available with the increased service life.

**Application:**

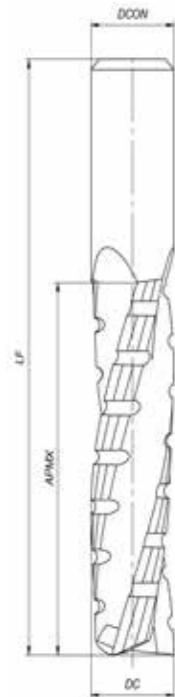
Roughing and finishing operation. CNC machining centers, plotters, CNC or conventional milling machines.

**Information:**

A special separator designed to reduce cutting forces allows you to increase the parameters, when compared to standard cutters. The separator does not interfere with tool profile, therefore the machined edge is straight.

HW

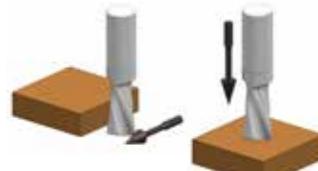
CNC



DC	LF	APMX	DCON	ZEFP	INDICATION	INDICATION (coated)
10	80	32	10	3	FPP01-1008032	FPP01-1008032C
10	80	32	12	3	FPP01-1008032-D12	FPP01-1008032C-D12
12	80	32	12	3	FPP01-1208032	FPP01-1208032C
12	90	42	12	3	FPP01-1209042	FPP01-1209042C
12	100	52	12	3	FPP01-1210052	FPP01-1210052C
14	100	52	14	3	FPP01-1410052	FPP01-1410052C
16	80	32	16	3	FPP01-1608032	FPP01-1608032C
16	90	42	16	3	FPP01-1609042	FPP01-1609042C
16	100	52	16	3	FPP01-1610052	FPP01-1610052C
16	110	52	16	3	FPP01-1611052	FPP01-1611052C
16	120	72	16	3	FPP01-1612072	FPP01-1612072C
16	130	62	16	3	FPP01-1613062	FPP01-1613062C
16	130	72	16	3	FPP01-1613072	FPP01-1613072C
18	90	42	18	3	FPP01-1809042	FPP01-1809042C
18	100	52	18	3	FPP01-1810052	FPP01-1810052C
18	120	72	18	3	FPP01-1812072	FPP01-1812072C
20	100	52	20	3	FPP01-2010052	FPP01-2010052C
20	120	72	20	3	FPP01-2012072	FPP01-2012072C
20	120	72	20	4	FPP01-2012172	FPP01-2012172C

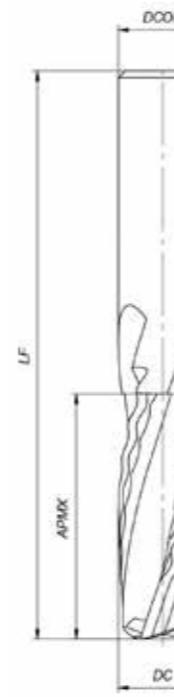
**CODING**

GROUP	DC	LF	APMX
FPP01	12	80	32

→ **FPP01-1208032**

HW

CNC

**Description:**

End mill with splitted edges. Positive spiral - evacuation of the chip towards the holder. Cutter with possibility of drilling.

**Application:**

Roughing and finishing operation. CNC machining centers, plotters, CNC or conventional milling machines.

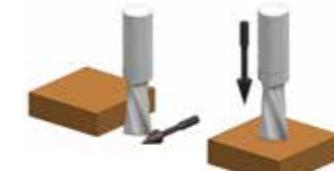
**Information:**

Thanks to this design, the tool life is longer compared to a 3-blade finishing cutter and the undulated edge separates the chip, facilitating its evacuation and reducing cutting forces. Despite the wavy cutting edge, the cutter maps the straight face in the workpiece.

DC	LF	APMX	DCON	ZEFP	INDICATION
12	80	32	12	3	FPP13-1208032
12	90	42	12	3	FPP13-1209042
12	100	52	12	3	FPP13-1210052
14	100	52	14	3	FPP13-1410052
16	80	32	16	3	FPP13-1608032
16	90	42	16	3	FPP13-1609042
16	100	52	16	3	FPP13-1610052
16	120	72	16	3	FPP13-1612072
18	90	42	18	3	FPP13-1809042
18	100	52	18	3	FPP13-1810052
20	100	52	20	3	FPP13-2010052
20	120	72	20	3	FPP13-2012072

**CODING**

GROUP	DC	LF	APMX
FPP13	12	90	42

→ **FPP13-1209042**

**FPP02****Description:**

End mill with splitted edges and extended range. Positive spiral - evacuation of the chip towards the holder. Cutter with possibility of drilling. Coated version available with the increased service life.

**Application:**

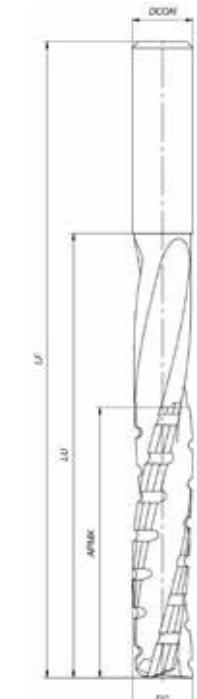
Roughing and finishing operation. CNC machining centers, plotters, CNC or conventional milling machines.

**Information:**

This version is intended for the processing of pockets for a lock. A special separator designed for reduction of cutting forces allows you to increase the parameters, when compared to standard cutters. The separator does not interfere with tool profile, therefore the machined edge is straight.



CNC

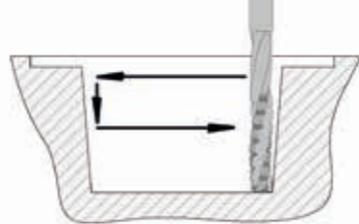


DC	LF	APMX	LU	DCON	ZEFP	INDICATION	INDICATION (coated)
10	95	45		12	3	FPP02-1009545-D12	FPP02-1009545C-D12
10	95	45		10	3	FPP02-1009545	FPP02-1009545C
12	120	15	75	12	2	FPP02-1212015	FPP02-1212015C
12	120	35	80	12	3	FPP02-1212035	FPP02-1212035C
12	140	20	95	12	2	FPP02-1214020	FPP02-1214020C
14	130	50	75	14	3	FPP02-1413050	FPP02-1413050C
14	170	30	95	14	3	FPP02-1417030	FPP02-1417030C
14	170	30	95	14	3	FPP02-1417030	FPP02-1417030C
14	190	30	120	14	3	FPP02-1419030	FPP02-1419030C
16	130	75		16	3	FPP02-1613075	FPP02-1613075C
16	150	50	100	16	3	FPP02-1615050	FPP02-1615050C
16	170	30	95	16	3	FPP02-1617030	FPP02-1617030C
16	170	50	105	16	3	FPP02-1617050	FPP02-1617050C
16	170	50	105	16	3	FPP02-1617050	FPP02-1617050C
16	180	30	120	16	3	FPP02-1618030	FPP02-1618030C
16	205	30	135	16	3	FPP02-1620530	FPP02-1620530C
17	190	30	120	17	3	FPP02-1719030	FPP02-1719030C
18	170	50	115	18	3	FPP02-1817050	FPP02-1817050C
25	200	120		25	3	FPP02-25200120	FPP02-25200120C

**CODING**

GROUP	DC	LF	APMX
FPP02	16	90	32

FPP02-1609032

**Milling pockets for a lock.****FPP03****Description:**

End mill with splitted edges, chamfer and extended range. Positive spiral - evacuation of the chip towards the holder. Cutter with possibility of drilling. Coated version available with the increased service life.

**Application:**

Roughing and finishing operation. CNC machining centers, plotters, CNC or conventional milling machines.

**Information:**

This version is intended for openings for the lock and visors. A special separator designed to reduce cutting forces allows you to increase the parameters, when compared to standard cutters. The separator does not interfere with tool profile, therefore the machined edge is straight.



CNC

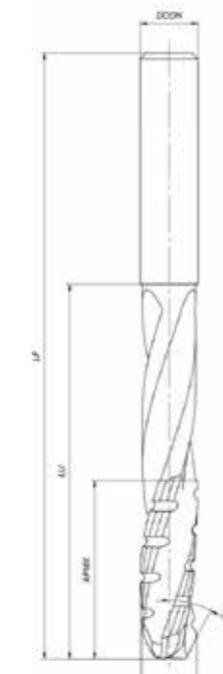
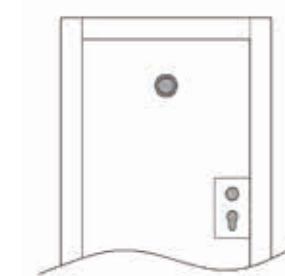


DC	LF	APMX	LU	DCON	ZEFP	INDICATION	INDICATION (coated)
10	95	45		10	3	FPP03-1009545	FPP03-1009545C
12	120	15	75	12	2	FPP03-1212015	FPP03-1212015C
12	140	20	95	12	2	FPP03-1214020	FPP03-1214020C
14	130	50	75	14	3	FPP03-1413050	FPP03-1413050C
14	170	30	95	14	3	FPP03-1417030	FPP03-1417030C
16	130	75		16	3	FPP03-1613075	FPP03-1613075C
16	170	50	105	16	3	FPP03-1617050	FPP03-1617050C
16	170	50	105	16	3	FPP03-1617050	FPP03-1617050C
16	180	30	120	16	3	FPP03-1618030	FPP03-1618030C
16	205	30	135	16	3	FPP03-1620530	FPP03-1620530C
17	190	30	120	17	3	FPP03-1719030	FPP03-1719030C
18	170	50	115	18	3	FPP03-1817050	FPP03-1817050C
25	200	120		25	3	FPP03-25200120	FPP03-25200120C

**CODING**

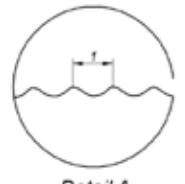
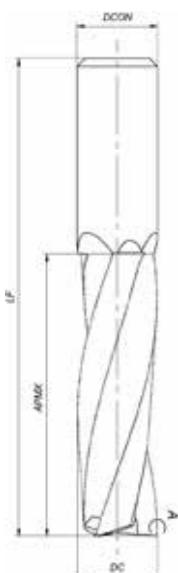
GROUP	DC	LF	APMX
FPP03	12	120	15

FPP03-1212015

**Milling holes for visors and locks.**

**FPP04**

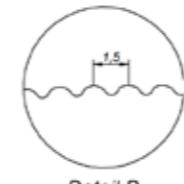
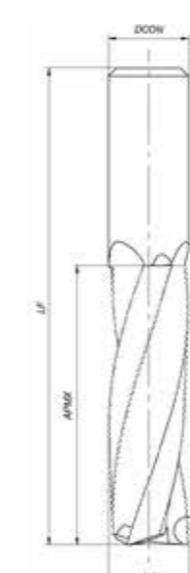
**HW**    **CNC**

**CODING**

GROUP	DC	LF	APMX
FPP04	8	70	25

→ **FPP04-0807025****FPP05**

**HW**    **CNC**

**Description:**

Positive spiral - Roughing end mill with 1,5mm chipbreaker. Cutter with possibility of drilling.

**Application:**

Rough machining. CNC machining centers, plotters, CNC or conventional milling machines.

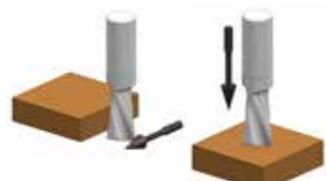
**Information:**

Considerable shredding of the chip - splitter with 1.5 mm pitch.

DC	LF	APMX	DCON	ZEFP	INDICATION
8	70	25	8	3	FPP05-0807025
8	80	32	8	3	FPP05-0808032
8	90	42	8	3	FPP05-0809042
10	80	32	10	3	FPP05-1008032
10	100	42	10	3	FPP05-1010042
10	100	52	10	3	FPP05-1010052
12	80	32	12	3	FPP05-1208032
12	100	42	12	3	FPP05-1210042
12	100	52	12	3	FPP05-1210052
14	100	42	14	3	FPP05-1410042
14	100	52	14	3	FPP05-1410052
16	100	42	16	3	FPP05-1610042
16	100	52	16	3	FPP05-1610052
16	120	72	16	3	FPP05-1612072
18	100	52	18	3	FPP05-1810052
18	130	72	18	3	FPP05-1813072
20	100	52	20	3	FPP05-2010052
20	130	72	20	3	FPP05-2013072
20	150	85	20	3	FPP05-2015085
20	160	102	20	3	FPP05-20160102

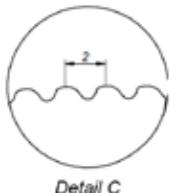
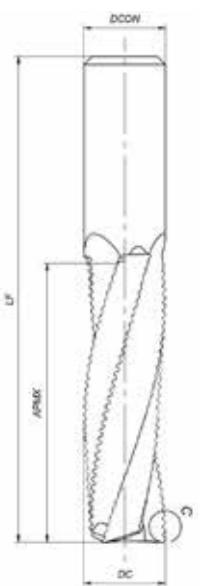
**CODING**

GROUP	DC	LF	APMX
FPP05	8	70	25

→ **FPP05-0807025**

**FPP06**

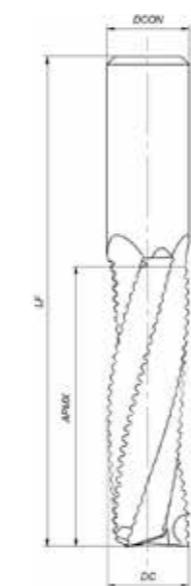
**HW**    **CNC**

**CODING**

GROUP	DC	LF	APMX
FPP06	8	70	25

→ **FPP06-0807025****FPP07**

**HW**    **CNC**

**Description:**

Solid carbide roughing cutter with helical grooves. Positive spiral - Roughing end mill with 2,5mm chipbreaker. Cutter with possibility of drilling.

**Application:**

Rough machining. CNC machining centers, plotters, CNC or conventional milling machines.

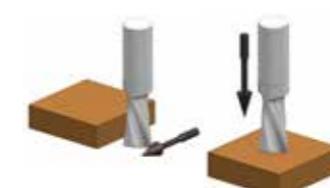
**Information:**

Minimal shredding of the chip - splitter with 2.5mm pitch.

DC	LF	APMX	DCON	ZEFP	INDICATION
8	70	25	8	3	FPP07-0807025
8	80	32	8	3	FPP07-0808032
8	90	42	8	3	FPP07-0809042
10	80	32	10	3	FPP07-1008032
10	100	42	10	3	FPP07-1010042
10	100	52	10	3	FPP07-1010052
12	80	32	12	3	FPP07-1208032
12	100	42	12	3	FPP07-1210042
12	100	52	12	3	FPP07-1210052
14	100	42	14	3	FPP07-1410042
14	100	52	14	3	FPP07-1410052
16	100	42	16	3	FPP07-1610042
16	100	52	16	3	FPP07-1610052
16	120	72	16	3	FPP07-1612072
18	100	52	18	3	FPP07-1810052
18	130	72	18	3	FPP07-1813072
20	100	52	20	3	FPP07-2010052
20	130	72	20	3	FPP07-2013072
20	150	85	20	3	FPP07-2015085
20	160	102	20	3	FPP07-20160102

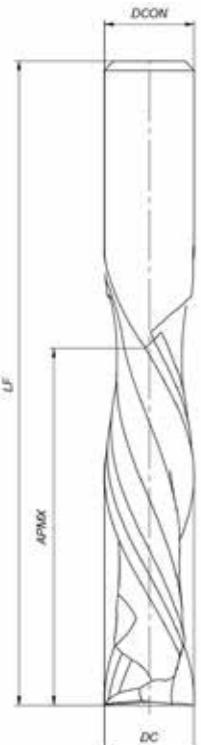
**CODING**

GROUP	DC	LF	APMX
FPP07	8	70	25

→ **FPP07-0807025**

**FPP08**

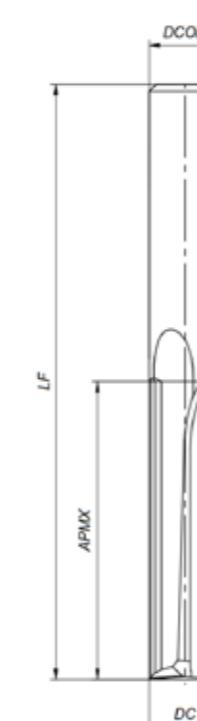
**HW**    **CNC**

**CODING**

GROUP	DC	LF	APMX
FPP08	6	60	17

→ **FPP08-0606017****FPP09**

**HW**    **CNC**

**Description:**

Solid carbide finishing shank cutter. Straight grooves. Cutter with possibility of drilling.

**Application:**

Finishing. CNC machining centers, plotters, CNC or conventional milling machines.

**Information:**

Provides a good finish to the top and bottom edges of the product. Recommended for processing products with low height or when the blank cannot be properly supported.

DC	LF	APMX	DCON	ZEFP	INDICATION
6	50	17	6	2	FPP09-0605017
6	55	22	6	2	FPP09-0605522
6	60	27	6	2	FPP09-0606027
8	60	25	8	2	FPP09-0806025
8	65	32	8	2	FPP09-0806532
10	65	25	10	2	FPP09-1006525
10	70	32	10	2	FPP09-1007032
10	80	42	10	2	FPP09-1008042
12	70	32	12	2	FPP09-1207032
12	80	42	12	2	FPP09-1208042

**CODING**

GROUP	DC	LF	APMX
FPP09	6	50	17

→ **FPP09-0605017**

**FPP10****Description:**

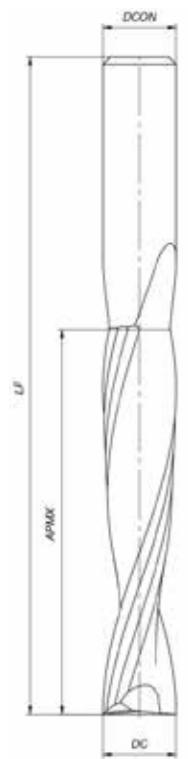
Straight flute end mill. Positive spiral - evacuation of the chip towards the holder. Cutter with possibility of drilling.

**Application:**

Roughing and finishing operation. CNC machining centers, plotters, CNC or conventional milling machines.

**Information:**

Provides very good chip evacuation. Recommended for operations in solid material, where there is a problem with evacuation of the chip.

**CODING**

GROUP	DC	LF	APMX
FPP10	3	50	12

→ **FPP10-0305012**

**FPP11****Description:**

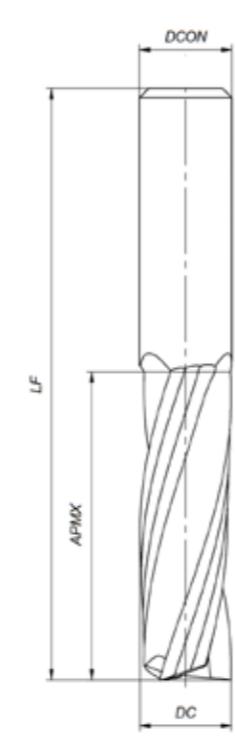
3 flute up cut end mill. Positive spiral - evacuation of the chip towards the holder. Cutter with possibility of drilling.

**Application:**

Finishing. CNC machining centers, plotters, CNC or conventional milling machines.

**Information:**

Ensures good chip evacuation. It achieves a longer service life compared to the 2-blade version, at the expense of chip grooves with lesser space.

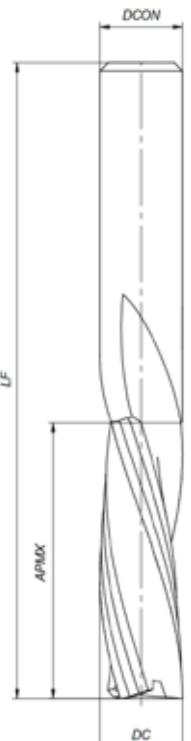
**CODING**

GROUP	DC	LF	APMX
FPP11	8	70	25

→ **FPP11-0807025**

**FPP12**

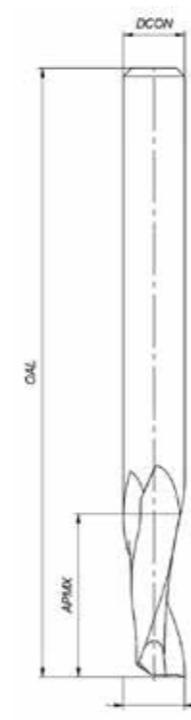
**HW**      **CNC**

**CODING**

GROUP	DC	LF	APMX
FPP12	8	70	25

→ **FPP12-0807025****FPP14**

**HW**      **CNC**

**Description:**

1 flute up cut end mill. Positive spiral - evacuation of the chip towards the holder.

**Application:**

Roughing and finishing operation. CNC machining centers, plotters, CNC or conventional milling machines.

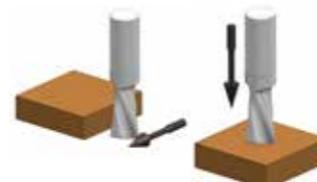
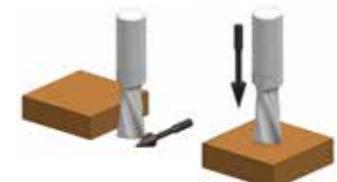
**Information:**

Provides very good chip evacuation. Recommended for operations in solid material.

DC	LF	APMX	DCON	ZEFP	INDICATION
3	50	12	3	1	FPP14-0305012
4	50	15	4	1	FPP14-0405015
5	50	17	5	1	FPP14-0505017
6	50	17	6	1	FPP14-0605017
6	60	22	6	1	FPP14-0606022
6	60	27	6	1	FPP14-0606027
8	60	25	8	1	FPP14-0806025
8	80	32	8	1	FPP14-0808032
8	90	42	8	1	FPP14-0809042
10	80	32	10	1	FPP14-1008032
10	100	42	10	1	FPP14-1010042
10	100	52	10	1	FPP14-1010052
12	80	32	12	1	FPP14-1208032
12	100	42	12	1	FPP14-1210042
12	100	52	12	1	FPP14-1210052

**CODING**

GROUP	DC	LF	APMX
FPP14	3	50	12

→ **FPP14-0305012**

## END MILL



### Description:

1 flute down cut end mill. Negative spiral - material pressed down while cutting.

### Application:

Roughing and finishing operation. CNC machining centers, plotters, CNC or conventional milling machines.

### Information:

High quality of the top edge of the workpiece.

DC	LF	APMX	DCON	ZEFP	INDICATION
3	70	12	3	1	FPP15-0305012
4	70	15	4	1	FPP15-0405015
5	70	17	5	1	FPP15-0505017
6	70	17	6	1	FPP15-0605017
6	80	22	6	1	FPP15-0606022
6	80	27	6	1	FPP15-0606027
8	80	25	8	1	FPP15-0806025
8	100	32	8	1	FPP15-0808032
8	110	42	8	1	FPP15-0809042
10	100	32	10	1	FPP15-1008032
10	120	42	10	1	FPP15-1010042
10	120	52	10	1	FPP15-1010052
12	100	32	12	1	FPP15-1208032
12	120	42	12	1	FPP15-1210042
12	120	52	12	1	FPP15-1210052

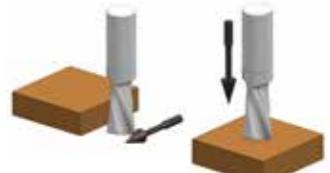
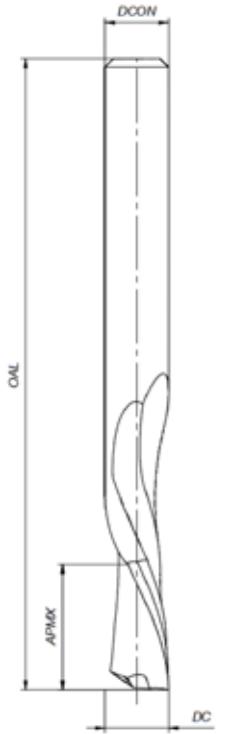
### CODING

GROUP	DC	LF	APMX
FPP15	3	50	12

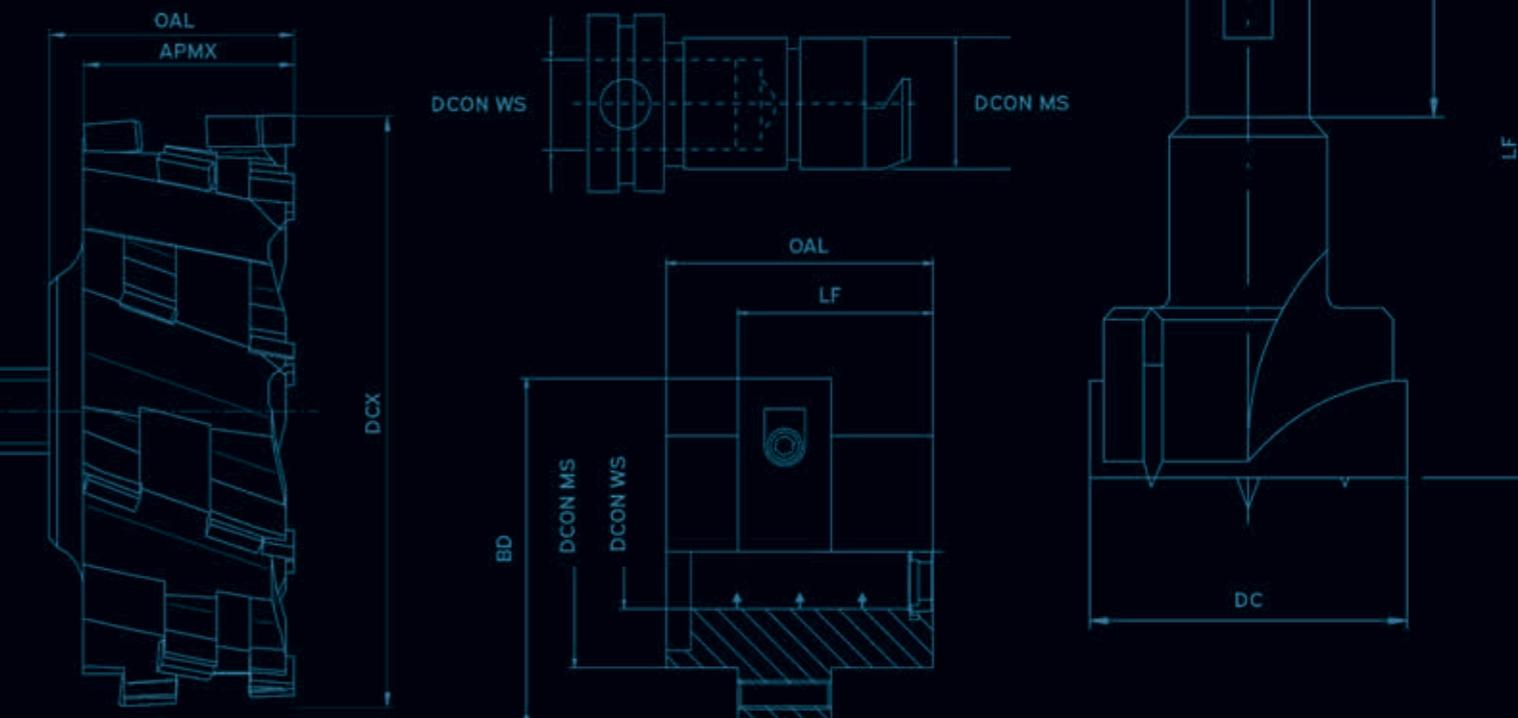
→ FPP15-0305012



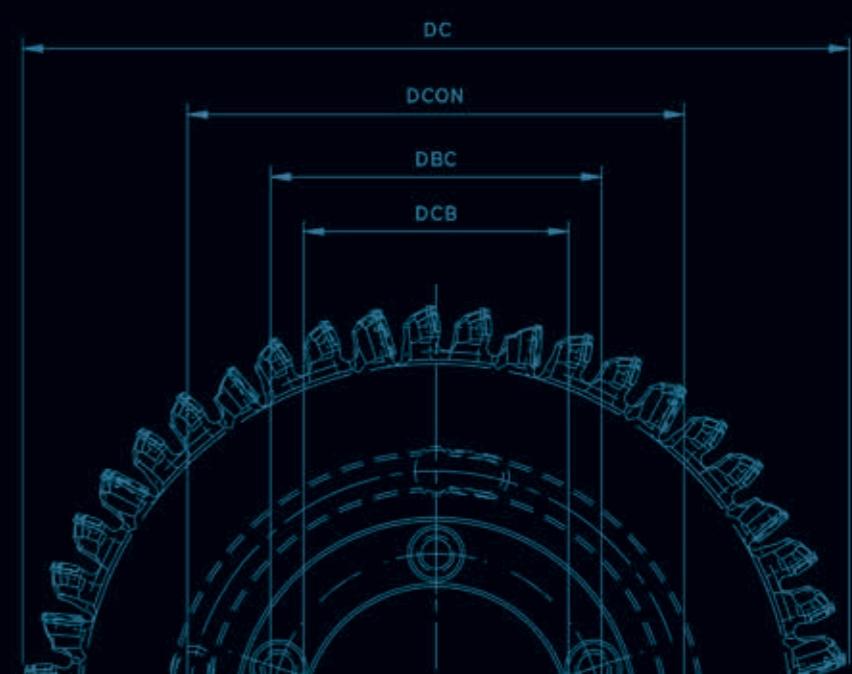
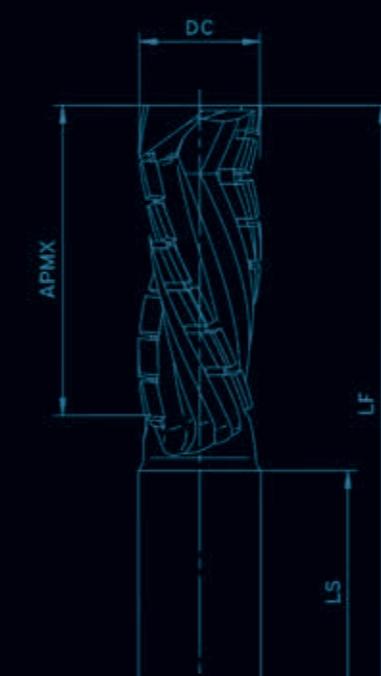
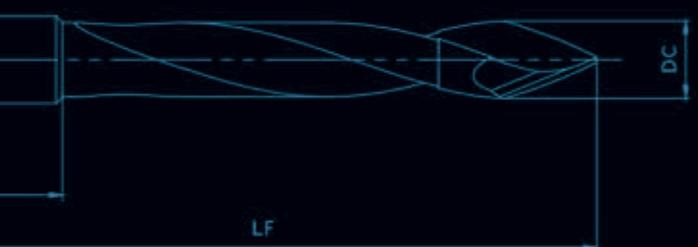
CNC



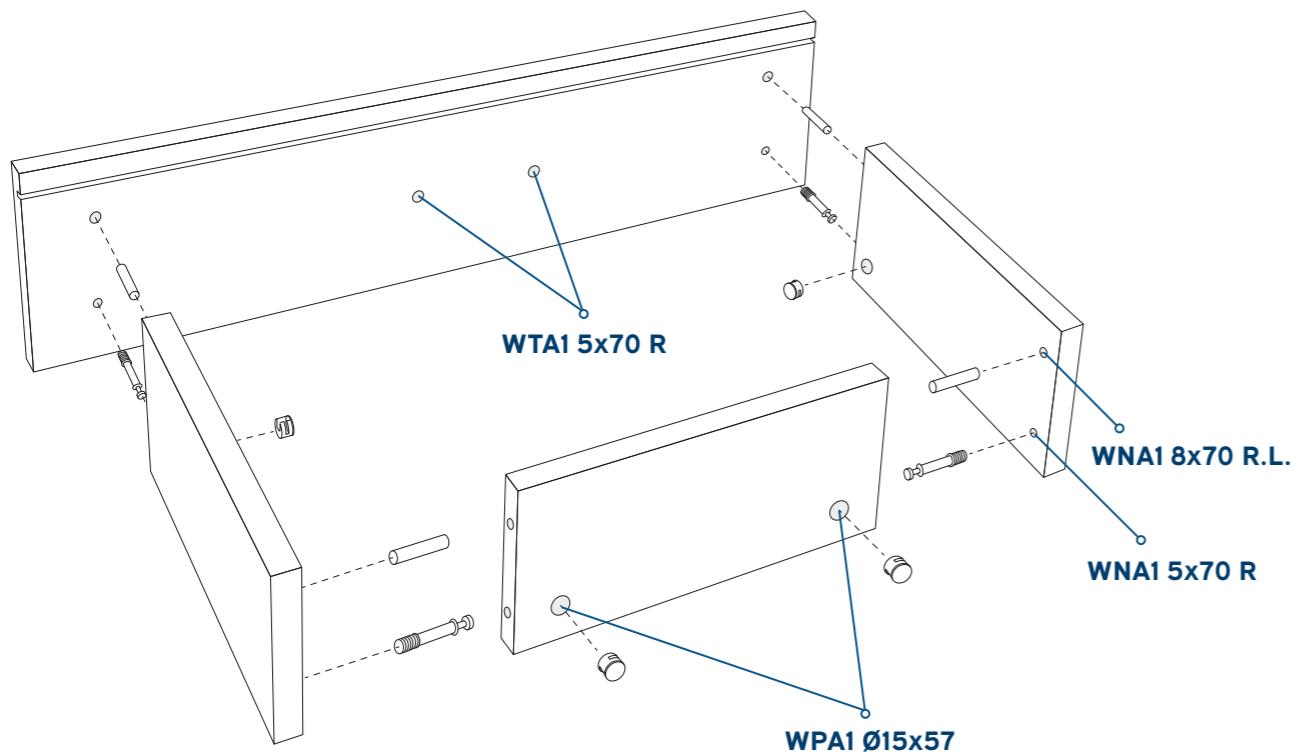
## FPP15



## IV DRILLING



## TECHNICAL SECTION

**Description:**

Solid carbide through-hole drill bits with shank Ø 10x27 [mm] and Ø 10x20[mm].

**Application:**

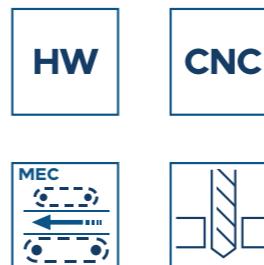
Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

The optimized tool design ensures an extended service life, good machining quality and chip removal.

**The shank is made of steel with dimensions of Ø10 x 27 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
3	70	27	10	WTA1-0370R	WTA1-0370L
3,5	70	27	10	WTA1-03570R	WTA1-03570L
4	70	27	10	WTA1-0470R	WTA1-0470L



**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	70	20	10	WTA1-0570R	WTA1-0570L
5	77	20	10	WTA1-0577R	WTA1-0577L
6	70	20	10	WTA1-0670R	WTA1-0670L
6	77	20	10	WTA1-0677R	WTA1-0677L
7	70	20	10	WTA1-0770R	WTA1-0770L
7,5	70	20	10	WTA1-07570R	WTA1-07570L
8	70	20	10	WTA1-0870R	WTA1-0870L
8	77	20	10	WTA1-0877R	WTA1-0877L
5	85	20	10	WTA1-0585R	WTA1-0585L
7	85	20	10	WTA1-0785R	WTA1-0785L
8	85	20	10	WTA1-0885R	WTA1-0885L



WTA1 5x70 R

WPA1 Ø15x57

WNA1 5x70 R

WNA1 8x70 R.L.

**Description:**

Solid carbide through-hole drill bits with shank 10x30 [mm] and 10x35 [mm].

**Application:**

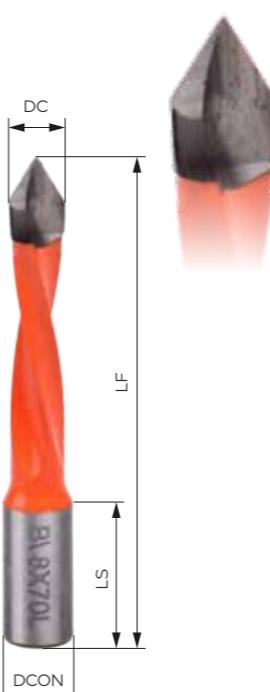
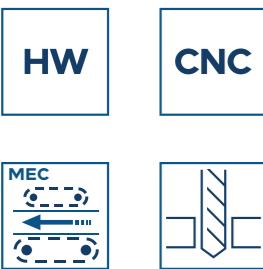
Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Long service life, good processing quality and chip removal.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
3	70	30	10	WTY1-0370R	WTY1-0370L
3,5	70	30	10	WTY1-03570R	WTY1-03570L
4	70	30	10	WTY1-0470R	WTY1-0470L
5	70	30	10	WTY1-0570R	WTY1-0570L
6	70	30	10	WTY1-0670R	WTY1-0670L
7	70	30	10	WTY1-0770R	WTY1-0770L
8	70	30	10	WTY1-0870R	WTY1-0870L

**Description:**

Through-hole drill bits with shank Ø 10x20 [mm].

**Application:**

Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

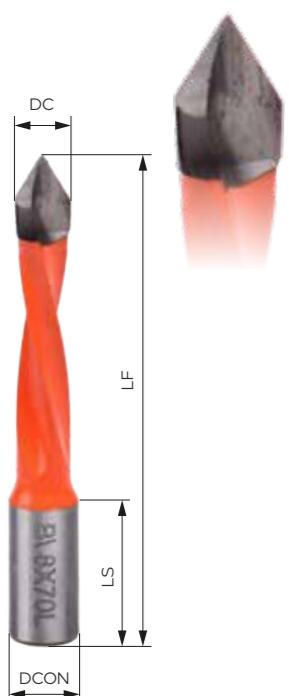
**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	70	20	10	WTY3-0570R	WTY3-0570L
6	70	20	10	WTY3-0670R	WTY3-0670L
7	70	20	10	WTY3-0770R	WTY3-0770L
7	77	20	10	WTY3-0777R	WTY3-0777L
8	70	20	10	WTY3-0870R	WTY3-0870L
8	77	20	10	WTY3-0877R	WTY3-0877L
9	70	20	10	WTY3-0970R	WTY3-0970L
9	77	20	10	WTY3-0977R	WTY3-0977L
10	70	20	10	WTY3-1070R	WTY3-1070L
10	77	20	10	WTY3-1077R	WTY3-1077L
12	70	20	10	WTY3-1270R	WTY3-1270L
12	77	20	10	WTY3-1277R	WTY3-1277L

**The shank is made of steel with dimensions of Ø10 x 35 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	85	35	10	WTY1-0585R	WTY1-0585L
6	85	35	10	WTY1-0685R	WTY1-0685L
8	85	35	10	WTY1-0885R	WTY1-0885L

## WTY4

**Description:**

Through-hole drill bits with shank Ø 8x20 [mm].

**Application:**

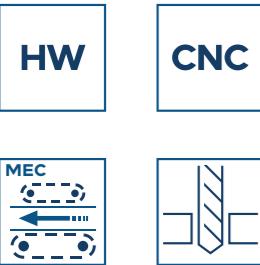
Drilling holes with very small spacing between the elements in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø8 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	57	20	8	WTY4-0557R	WTY4-0557L
5	70	20	8	WTY4-0570R	WTY4-0570L
6	70	20	8	WTY4-0670R	WTY4-0670L
7	70	20	8	WTY4-0770R	WTY4-0770L
8	70	20	8	WTY4-0870R	WTY4-0870L



## WTY5

**Description:**

Through-hole drill bits with shank Ø 10x20 [mm] and Ø 10x27 [mm].

**Application:**

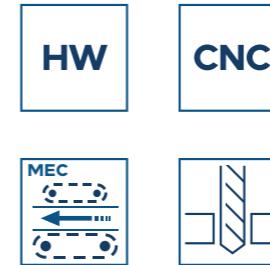
Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

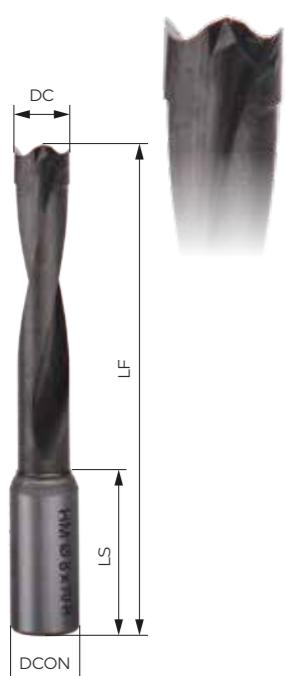
**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
4	70	20	10	WTY5-0470R	WTY5-0470L
4,5	70	20	10	WTY5-04570R	WTY5-04570L
5	70	20	10	WTY5-0570R	WTY5-0570L
5	77	20	10	WTY5-0577R	WTY5-0577L
6	70	20	10	WTY5-0670R	WTY5-0670L
6	77	20	10	WTY5-0677R	WTY5-0677L
7	70	20	10	WTY5-0770R	WTY5-0770L
7	77	20	10	WTY5-0777R	WTY5-0777L
8	70	20	10	WTY5-0870R	WTY5-0870L
8	77	20	10	WTY5-0877R	WTY5-0877L
9	70	20	10	WTY5-0970R	WTY5-0970L
9	77	20	10	WTY5-0977R	WTY5-0977L
10	70	20	10	WTY5-1070R	WTY5-1070L
10	77	20	10	WTY5-1077R	WTY5-1077L
11	70	20	10	WTY5-1170R	WTY5-1170L
11	77	20	10	WTY5-1177R	WTY5-1177L
12	70	20	10	WTY5-1270R	WTY5-1270L
12	77	20	10	WTY5-1277R	WTY5-1277L



**The shank is made of steel with dimensions of Ø10 x 27 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	85	27	10	WTY5-0585R	WTY5-0585L
5	90	27	10	WTY5-0590R	WTY5-0590L
6	85	27	10	WTY5-0685R	WTY5-0685L
7	85	27	10	WTY5-0785R	WTY5-0785L
8	85	27	10	WTY5-0885R	WTY5-0885L
8	90	27	10	WTY5-0890R	WTY5-0890L
10	85	27	10	WTY5-1085R	WTY5-1085L
12	85	27	10	WTY5-1285R	WTY5-1285L

**WNA1****Description:**

Solid carbide dowel drill bits with shank Ø 10x20 [mm] and Ø 10x27 [mm].

**Application:**

Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

The optimized tool design ensures an extended service life, good machining quality and chip removal.

**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

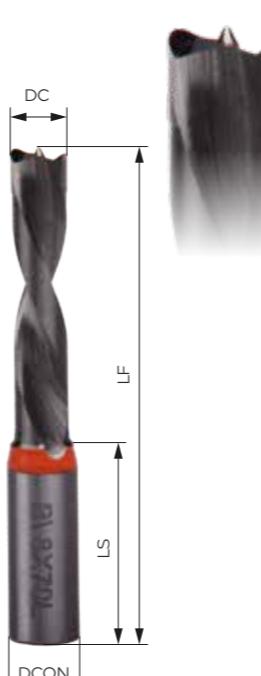
DC	LF	LS	DCON	INDICATION	
3	57	20	10	WNA1-0357R	WNA1-0357L
4	57	20	10	WNA1-0457R	WNA1-0457L
5	57	20	10	WNA1-0557R	WNA1-0557L
6	57	20	10	WNA1-0657R	WNA1-0657L
8	57	20	10	WNA1-0857R	WNA1-0857L

**The shank is made of steel with dimensions of Ø10 x 27 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
3	70	27	10	WNA1-0370R	WNA1-0370L
3,5	70	27	10	WNA1-03570R	WNA1-03570L
4	70	27	10	WNA1-0470R	WNA1-0470L

**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	70	20	10	WNA1-0570R	WNA1-0570L
6	70	20	10	WNA1-0670R	WNA1-0670L
7	70	20	10	WNA1-0770R	WNA1-0770L
7,5	70	20	10	WNA1-07570R	WNA1-07570L
8	70	20	10	WNA1-0870R	WNA1-0870L
5	85	20	10	WNA1-0585R	WNA1-0585L
6	85	20	10	WNA1-0685R	WNA1-0685L
7	85	20	10	WNA1-0785R	WNA1-0785L
8	85	20	10	WNA1-0885R	WNA1-0885L

**WNY1****Description:**

Solid carbide dowel drill bits with shank Ø10 x 30 [mm].

**Application:**

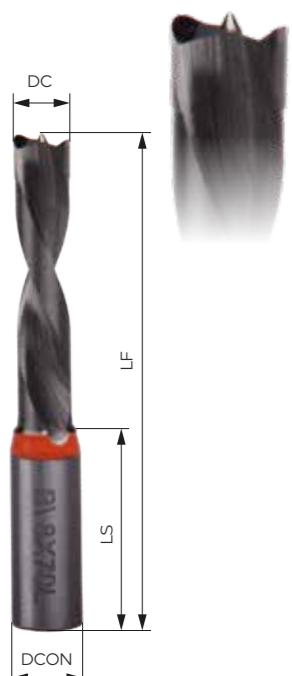
Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

The optimized tool design ensures an extended service life, good machining quality and chip removal.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
2	57	30	10	WNY1-0257R	WNY1-0257L
3	57	30	10	WNY1-0357R	WNY1-0357L
3,5	57	30	10	WNY1-03557R	WNY1-03557L
4	57	30	10	WNY1-0457R	WNY1-0457L
5	57	30	10	WNY1-0557R	WNY1-0557L
6	57	30	10	WNY1-0657R	WNY1-0657L
7	57	30	10	WNY1-0757R	WNY1-0757L
8	57	30	10	WNY1-0857R	WNY1-0857L

**WNY2****Description:**

Solid carbide dowel drill bits with shank Ø10x30 [mm] and Ø10x35 [mm].

**Application:**

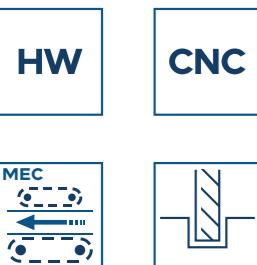
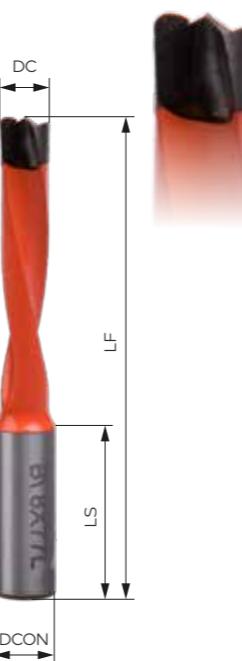
Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

The optimized tool design ensures an extended service life, good machining quality and chip removal.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
2	70	30	10	WNY2-0270R	WNY2-0270L
3	70	30	10	WNY2-0370R	WNY2-0370L
3,5	70	30	10	WNY2-03570R	WNY2-03570L
4	70	30	10	WNY2-0470R	WNY2-0470L
5	70	30	10	WNY2-0570R	WNY2-0570L
5,5	70	30	10	WNY2-05570R	WNY2-05570L
6	70	30	10	WNY2-0670R	WNY2-0670L
7	70	30	10	WNY2-0770R	WNY2-0770L
8	70	30	10	WNY2-0870R	WNY2-0870L

**WNY4****Description:**

Through-hole drill bits with shank Ø 10x20 [mm].

**Application:**

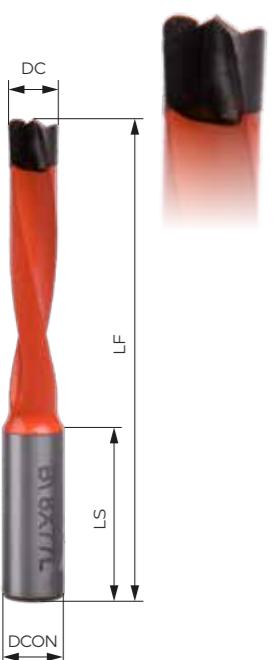
Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	57	20	10	WNY4-0557R	WNY4-0557L
6	57	20	10	WNY4-0657R	WNY4-0657L
7	57	20	10	WNY4-0757R	WNY4-0757L
8	57	20	10	WNY4-0857R	WNY4-0857L
9	57	20	10	WNY4-0957R	WNY4-0957L
10	57	20	10	WNY4-1057R	WNY4-1057L
11	57	20	10	WNY4-1157R	WNY4-1157L
12	57	20	10	WNY4-1257R	WNY4-1257L
5	70	20	10	WNY4-0570R	WNY4-0570L
5	77	20	10	WNY4-0577R	WNY4-0577L
6	70	20	10	WNY4-0670R	WNY4-0670L
6	77	20	10	WNY4-0677R	WNY4-0677L
7	70	20	10	WNY4-0770R	WNY4-0770L
7	77	20	10	WNY4-0777R	WNY4-0777L
8	70	20	10	WNY4-0870R	WNY4-0870L
8	77	20	10	WNY4-0877R	WNY4-0877L
9	70	20	10	WNY4-0970R	WNY4-0970L
10	70	20	10	WNY4-1070R	WNY4-1070L
10	77	20	10	WNY4-1077R	WNY4-1077L
11	70	20	10	WNY4-1170R	WNY4-1170L
12	70	20	10	WNY4-1270R	WNY4-1270L

**WNY6****Description:**

Dowel drill bits with shank Ø 8x20 [mm].

**Application:**

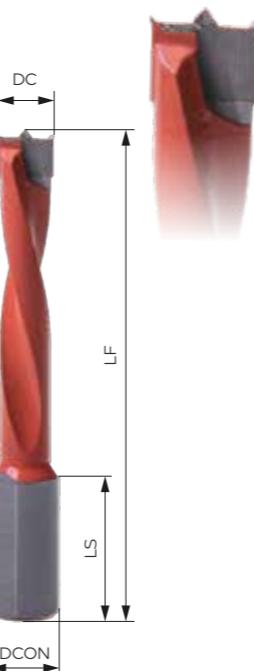
Drilling holes with very small spacings between the elements in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

The optimized design of the tool ensures good machining quality, chip removal and service life.

**The shank is made of steel with dimensions of Ø8 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	57	20	8	WNY6-0557R	WNY6-0557L
5	70	20	8	WNY6-0570R	WNY6-0570L
6	57	20	8	WNY6-0557R	WNY6-0557L
6	70	20	8	WNY6-0570R	WNY6-0570L
7	57	20	8	WNY6-0757R	WNY6-0757L
7	70	20	8	WNY6-0770R	WNY6-0770L
8	57	20	8	WNY6-0857R	WNY6-0857L
8	70	20	8	WNY6-0870R	WNY6-0870L

**WNY7****Description:**

Dowel drill bits with shank Ø10x20 [mm].

**Application:**

Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

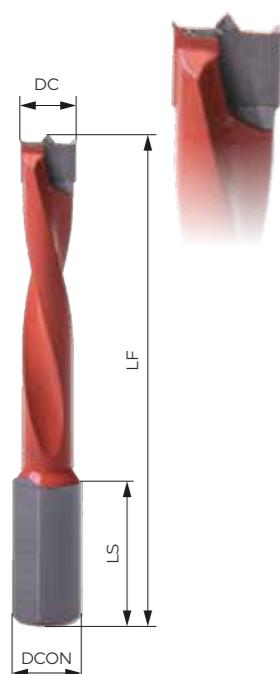
**Information:**

The optimized design of the tool ensures good machining quality, chip removal and service life.

**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
3	57	20	10	WNY7-0357R	WNY7-0357L
3,5	57	20	10	WNY7-03557R	WNY7-03557L
4	57	20	10	WNY70457R	WNY7-0457L
4,5	57	20	10	WNY7-04557R	WNY7-04557L
5	57	20	10	WNY7-0557R	WNY7-0557L
5,5	57	20	10	WNY7-05557R	WNY7-05557L
6	57	20	10	WNY7-0657R	WNY7-0657L
6,5	57	20	10	WNY7-06557R	WNY7-06557L
7	57	20	10	WNY7-0757R	WNY7-0757L
7,5	57	20	10	WNY7-07557R	WNY7-07557L
8	57	20	10	WNY7-0857R	WNY7-0857L
8,2	57	20	10	WNY7-08257R	WNY7-08257L
8,5	57	20	10	WNY7-08557R	WNY7-08557L
9	57	20	10	WNY7-0957R	WNY7-0957L
10	57	20	10	WNY7-1057R	WNY7-1057L
10,5	57	20	10	WNY7-10557R	WNY7-10557L
11	57	20	10	WNY7-1157R	WNY7-1157L
12	57	20	10	WNY7-1257R	WNY7-1257L
15	57	20	10	WNY7-1557R	WNY7-1557L



**Description:**

Dowel drill bits with shank Ø10x20 [mm].

**Application:**

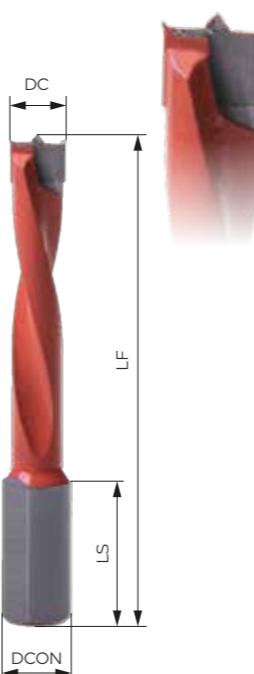
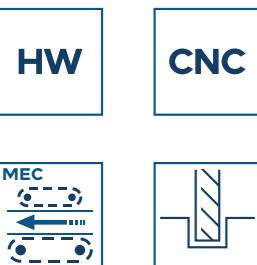
Drilling the holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 20 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
3	70	20	10	WNY8-0370R	WNY8-0370L
3,5	70	20	10	WNY8-03570R	WNY8-03570L
4	70	20	10	WNY8-0470R	WNY8-0470L
4,5	70	20	10	WNY8-04570R	WNY8-04570L
5	70	20	10	WNY8-0570R	WNY8-0570L
5,2	70	20	10	WNY8-05270R	WNY8-05270L
5,5	70	20	10	WNY8-05570R	WNY8-05570L
5	77	20	10	WNY8-0577R	WNY8-0577L
6	70	20	10	WNY8-0670R	WNY8-0670L
6,2	70	20	10	WNY8-06270R	WNY8-06270L
6,5	70	20	10	WNY8-06570R	WNY8-06570L
6	77	20	10	WNY8-0677R	WNY8-0677L
7	70	20	10	WNY8-0770R	WNY8-0770L
7,5	70	20	10	WNY8-05270R	WNY8-05270L
7	77	20	10	WNY8-0777R	WNY8-0777L
8	70	20	10	WNY8-0870R	WNY8-0870L
8,2	70	20	10	WNY8-08270R	WNY8-08270L
8,5	70	20	10	WNY8-08570R	WNY8-08570L
8	77	20	10	WNY8-0877R	WNY8-0877L
9	70	20	10	WNY8-0970R	WNY8-0970L
10	70	20	10	WNY8-1070R	WNY8-1070L
10,5	70	20	10	WNY8-10570R	WNY8-10570L
10	77	20	10	WNY8-1077R	WNY8-1077L
11	70	20	10	WNY8-1170R	WNY8-1170L
11	77	20	10	WNY8-1177R	WNY8-1177L
12	70	20	10	WNY8-1270R	WNY8-1270L
12	77	20	10	WNY8-1277R	WNY8-1277L
15	70	20	10	WNY8-1570R	WNY8-1570L
15	77	20	10	WNY8-1577R	WNY8-1577L

**Description:**

Dowel drill bits with shank Ø10 x 27 [mm].

**Application:**

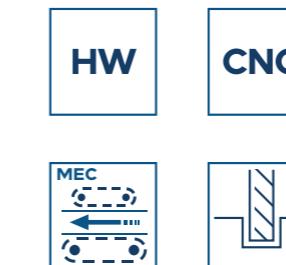
Drilling deep holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

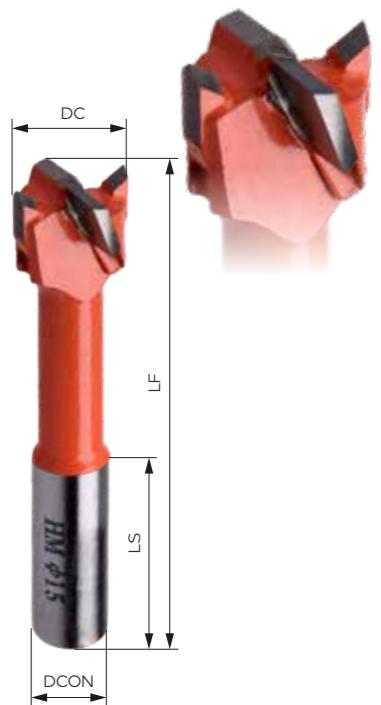
**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 27 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
5	80	27	10	WNY9-0580R	WNY9-0580L
5	85	27	10	WNY9-0585R	WNY9-0585L
5	90	27	10	WNY9-0590R	WNY9-0590L
6	80	27	10	WNY9-0680R	WNY9-0680L
6	85	27	10	WNY9-0685R	WNY9-0685L
6	90	27	10	WNY9-0690R	WNY9-0690L
7	85	27	10	WNY9-0785R	WNY9-0785L
7	90	27	10	WNY9-0790R	WNY9-0790L
7	105	27	10	WNY9-07105R	WNY9-07105L
8	80	27	10	WNY9-0880R	WNY9-0880L
8	85	27	10	WNY9-0885R	WNY9-0885L
8	90	27	10	WNY9-0890R	WNY9-0890L
8	105	27	10	WNY9-08105R	WNY9-08105L
9	85	27	10	WNY9-0985R	WNY9-0985L
9	105	27	10	WNY9-09105R	WNY9-09105L
10	85	27	10	WNY9-1085R	WNY9-1085L
10	90	27	10	WNY9-1090R	WNY9-1090L
10	105	27	10	WNY9-10105R	WNY9-10105L
12	90	27	10	WNY9-1290R	WNY9-1290L
12	105	27	10	WNY9-12105R	WNY9-12105L



**Description:**

Cylinder boring bits with 2 teeth + 2 spurs and centering point. Shank Ø10 x 30 [mm].

**Application:**

Drilling blind holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
12	57	30	10	WPA1-1257R	WPA1-1257L
15	57	30	10	WPA1-1557R	WPA1-1557L
20	57	30	10	WPA1-2057R	WPA1-2057L
26	57	30	10	WPA1-2657R	WPA1-2657L
30	57	30	10	WPA1-3057R	WPA1-3057L
35	57	30	10	WPA1-3557R	WPA1-3557L
35,6	57	30	10	WPA1-35657R	WPA1-35657L
40	57	30	10	WPA1-4057R	WPA1-4057L
12	70	30	10	WPA1-1270R	WPA1-1270L
15	70	30	10	WPA1-1570R	WPA1-1570L
16	70	30	10	WPA1-1670R	WPA1-1670L
20	70	30	10	WPA1-2070R	WPA1-2070L
26	70	30	10	WPA1-2670R	WPA1-2670L
30	70	30	10	WPA1-3070R	WPA1-3070L
35	70	30	10	WPA1-3570R	WPA1-3570L
35,6	70	30	10	WPA1-35670R	WPA1-35670L
40	70	30	10	WPA1-4070R	WPA1-4070L

**Description:**

Cylinder boring bits with 2 teeth + 2 spurs and centering point. Short tip. Shank of Ø10 x 30 [mm].

**Application:**

Drilling blind holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

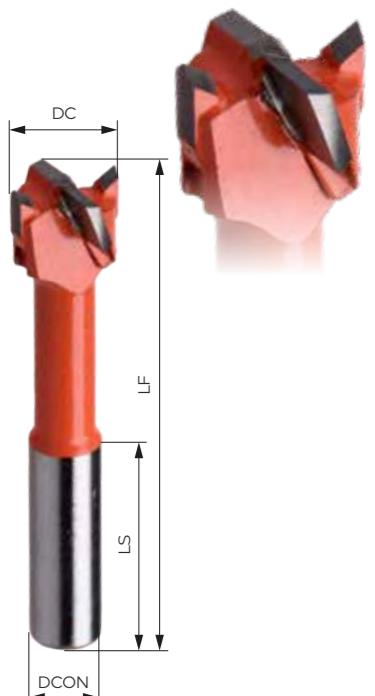
**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
15	57	30	10	WPA2-1257R	WPA2-1257L
15	70	30	10	WPA2-1570R	WPA2-1570L
20	57	30	10	WPA2-2057R	WPA2-2057L
26	57	30	10	WPA2-2657R	WPA2-2657L
30	57	30	10	WPA2-3057R	WPA2-3057L
35	57	30	10	WPA2-3557R	WPA2-3557L



**Description:**

Cylinder boring bits with 2 teeth + 2 spurs and centering point. Shank of Ø10 x 30 [mm].

**Application:**

Drilling blind holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
12	57	30	10	WPY1-1257R	WPY1-1257L
15	57	30	10	WPY1-1557R	WPY1-1557L
16	57	30	10	WPY1-1657R	WPY1-1657L
18	57	30	10	WPY1-1857R	WPY1-1857L
20	57	30	10	WPY1-2057R	WPY1-2057L
22	57	30	10	WPY1-2257R	WPY1-2257L
26	57	30	10	WPY1-2657R	WPY1-2657L
30	57	30	10	WPY1-3057R	WPY1-3057L
35	57	30	10	WPY1-3557R	WPY1-3557L
40	57	30	10	WPY1-4057R	WPY1-4057L
50	57	30	10	WPY1-5057R	WPY1-5057L
55	57	30	10	WPY1-5557R	WPY1-5557L
60	57	30	10	WPY1-6057R	WPY1-6057L

DC	LF	LS	DCON	INDICATION	
12	70	30	10	WPY1-1270R	WPY1-1270L
15	70	30	10	WPY1-1570R	WPY1-1570L
16	70	30	10	WPY1-1670R	WPY1-1670L
18	70	30	10	WPY1-1870R	WPY1-1870L
20	70	30	10	WPY1-2070R	WPY1-2070L
22	70	30	10	WPY1-2270R	WPY1-2270L
26	70	30	10	WPY1-2670R	WPY1-2670L
30	70	30	10	WPY1-3070R	WPY1-3070L
35	70	30	10	WPY1-3570R	WPY1-3570L
40	70	30	10	WPY1-4070R	WPY1-4070L
50	70	30	10	WPY1-5070R	WPY1-5070L
55	70	30	10	WPY1-5570R	WPY1-5570L
60	70	30	10	WPY1-6070R	WPY1-6070L

**Description:**

Cylinder boring bits with 2 teeth + 2 spurs and SHORT centering point. Shank of Ø10 x 30 [mm].

**Application:**

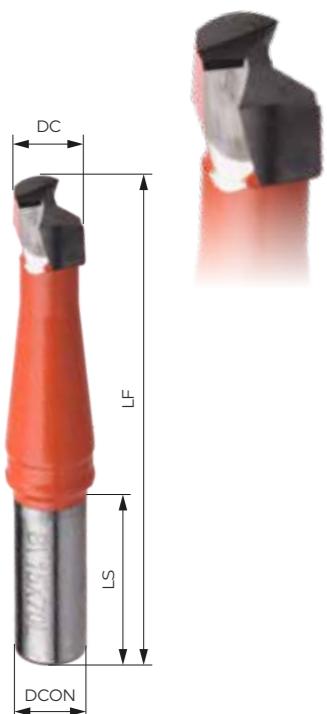
Drilling blind holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
20	57	30	10	WPY2-2057R	WPY2-2057L
22	57	30	10	WPY2-2257R	WPY2-2257L
26	57	30	10	WPY2-2657R	WPY2-2657L
30	57	30	10	WPY2-3057R	WPY2-3057L
35	57	30	10	WPY2-3557R	WPY2-3557L
20	70	30	10	WPY2-2070R	WPY2-2070L
22	70	30	10	WPY2-2270R	WPY2-2270L
26	70	30	10	WPY2-2670R	WPY2-2670L
30	70	30	10	WPY2-3070R	WPY2-3070L
35	70	30	10	WPY2-3570R	WPY2-3570L

**WPY3****Description:**

Cylinder boring bits Z 2 and SHORT centering point. Shank of Ø10 x 30 [mm].

**Application:**

Drilling blind holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
15	57	30	10	WPY3-1557R	WPY3-1557L
20	57	30	10	WPY3-2057R	WPY3-2057L
22	57	30	10	WPY3-2257R	WPY3-2257L
26	57	30	10	WPY3-2657R	WPY3-2657L
30	57	30	10	WPY3-3057R	WPY3-3057L
35	57	30	10	WPY3-3557R	WPY3-3557L
15	70	30	10	WPY3-1570R	WPY3-1570L
20	70	30	10	WPY3-2070R	WPY3-2070L
22	70	30	10	WPY3-2270R	WPY3-2270L
26	70	30	10	WPY3-2670R	WPY3-2670L
30	70	30	10	WPY3-3070R	WPY3-3070L
35	70	30	10	WPY3-3570R	WPY3-3570L

**WPD1****Description:**

Cylinder boring bits with 2 teeth + 2 spurs and centering point. Shank of Ø10 x 30 [mm].

**Application:**

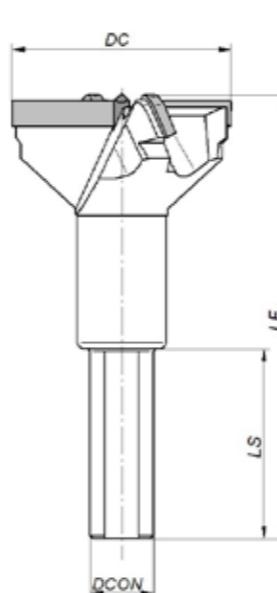
Drilling blind holes in coated wood-based boards before lamination, MDF boards and solid wood. Used on multi-spindle drilling machines and CNC machining centers.

**Information:**

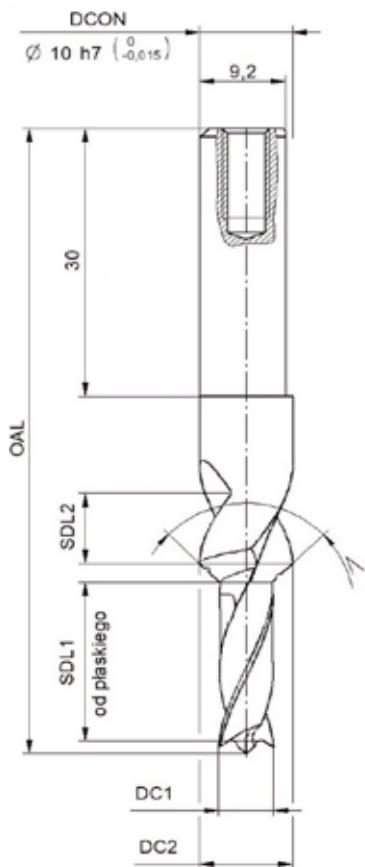
Good processing quality, chip removal and service life are ensured by the optimized design of the tool.

**The shank is made of steel with dimensions of Ø10 x 30 [mm] with an internal M5 thread and a chamfer.**

DC	LF	LS	DCON	INDICATION	
15	57	30	10	WPD1-1557R	WPD1-1557L
18	57	30	10	WPD1-1857R	WPD1-1857L
20	57	30	10	WPD1-2057R	WPD1-2057L
22	57	30	10	WPD1-2257R	WPD1-2257L
26	57	30	10	WPD1-2657R	WPD1-2657L
30	57	30	10	WPD1-3057R	WPD1-3057L
35	57	30	10	WPD1-3557R	WPD1-3557L



DC	LF	LS	DCON	INDICATION	
15	70	30	10	WPD1-1570R	WPD1-1570L
18	70	30	10	WPD1-1870R	WPD1-1870L
20	70	30	10	WPD1-2070R	WPD1-2070L
22	70	30	10	WPD1-2270R	WPD1-2270L
26	70	30	10	WPD1-2670R	WPD1-2670L
30	70	30	10	WPD1-3070R	WPD1-3070L
35	70	30	10	WPD1-3570R	WPD1-3570L



**WSN Step drill bits solid carbide with shank Ø10x30 [mm]**  
Start Dowel drill bits

DC1 (max Ø20)	DC2 (max Ø20)	SDL1	SDL2	OAL	<	REQUIRED HOLDER Ø10	DRIVE FLAT	THREAD
					YES/NO	YES/NO	YES/NO	



#### Description:

Solid carbide Twist drills with shank Ø10x22 [mm] and Ø10x30 [mm].

#### Application:

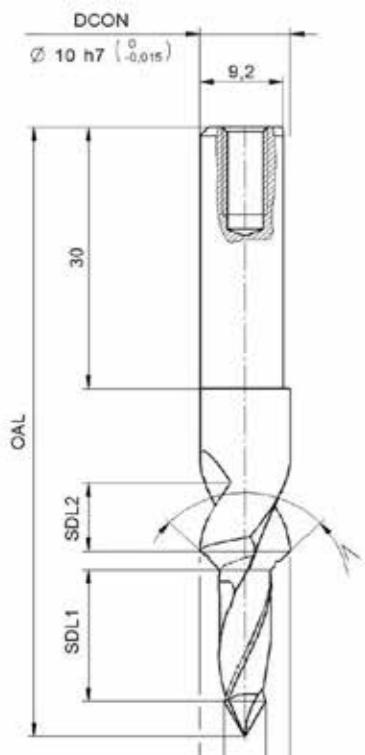
Machining the blind holes, mainly in solid wood. CNC machining centers, plotters, CNC or conventional drills.

#### Information:

Mounting for a drill chuck and equipped with an adjusting screw.

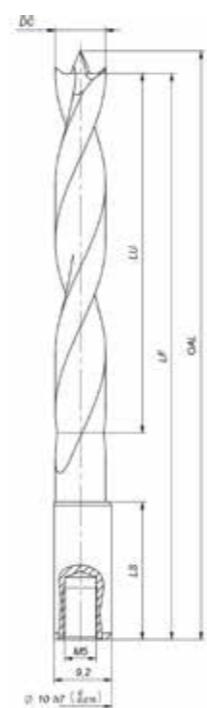
**The shank is made of steel with dimensions of Ø10 with an internal M5 thread and a chamfer.**

DC	OAL	LU	LS	ZEFF	INDICATION
3	70	35	30	2	WPK02-0307035R WPK02-0307035L
3	70	43	22	2	WPK03-0307043R WPK03-0307043L
4	70	35	30	2	WPK02-0407035R WPK02-0407035L
4	70	43	22	2	WPK03-0407043R WPK03-0407043L
5	70	35	30	2	WPK02-0507035R WPK02-0507035L
5	70	43	22	2	WPK03-0507043R WPK03-0507043L
5,5	70	35	30	2	WPK02-05507035R WPK02-05507035L
5,5	70	43	22	2	WPK03-05507035R WPK03-05507035L
6	70	35	30	2	WPK02-0607035R WPK02-0607035L
6	94	57	30	2	WPK02-0609457R WPK02-0609457L
6	70	43	22	2	WPK03-0607043R WPK03-0607043L
6	94	65	22	2	WPK03-0609465R WPK03-0609465L
8	70	35	30	2	WPK02-0807035R WPK02-0807035L
8	94	57	30	2	WPK02-0809457R WPK02-0809457L
8	70	43	22	2	WPK03-0807043R WPK03-0807043L
8	94	65	22	2	WPK03-0809465R WPK03-0809465L
10	70	35	30	2	WPK02-01007035R WPK02-01007035L
10	94	57	30	2	WPK02-01009457R WPK02-01009457L
10	70	43	22	2	WPK03-01007043R WPK03-01007043L
10	94	65	22	2	WPK03-01009465R WPK03-01009465L



**WSP Step drill bits solid carbide with shank Ø10x30 [mm]**  
Start Through-hole drill bits

DC1 (max Ø20)	DC2 (max Ø20)	SDL1	SDL2	OAL	<	REQUIRED HOLDER Ø10	DRIVE FLAT	THREAD
					YES/NO	YES/NO	YES/NO	



**WPK01****Description:**

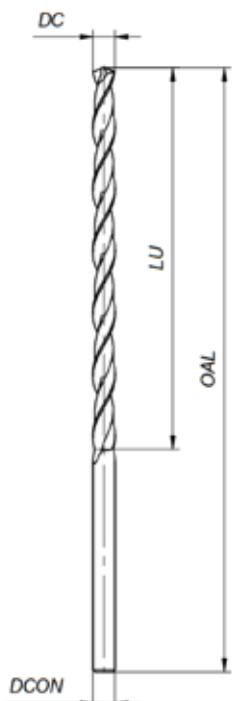
Solid carbide Twist drills.

**Application:**

Machining of holes. CNC machining centers, plotters, CNC or conventional drills.

**Information:**

Framed in sleeves or holders used on multi-spindle drills and CNC machining centers.



DC	OAL	LU	DCON	ZEFP	INDICATION	
2	50	18	3	2	WPK01-0205018R	WPK01-0205018L
2	55	28	2	2	WPK01-0205528R	WPK01-0205528L
2,5	55	28	2,5	2	WPK01-0255528R	WPK01-0255528L
3	48	18	3	2	WPK01-0304818R	WPK01-0304818L
3	55	28	3	2	WPK01-0305528R	WPK01-0305528L
3,5	55	28	3	2	WPK01-0355528R	WPK01-0355528L
3	80	50	3	2	WPK01-0308050R	WPK01-0308050L
4	55	28	4	2	WPK01-0405528R	WPK01-0405528L
4	80	50	4	2	WPK01-0408050R	WPK01-0408050L
5	55	28	5	2	WPK01-0505528R	WPK01-0505528L
5	80	50	5	2	WPK01-0508050R	WPK01-0508050L
6	70	50	6	2	WPK01-0607050R	WPK01-0607050L
6	85	55	6	2	WPK01-0608555R	WPK01-0608555L

**WPK04****Description:**

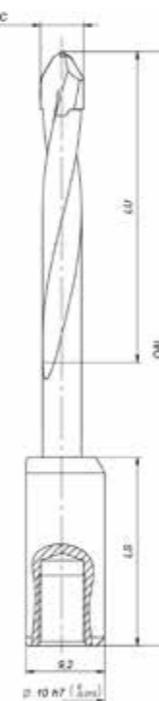
Solid carbide through-hole Twist drills with shank Ø10x22 [mm] and Ø10x30 [mm].

**Application:**

Machining the through holes. Special geometry of the blade makes it possible to cut off the excess material in the initial phase of withdrawal.

**Information:**

Mounting for a drill chuck and equipped with an adjusting screw.



The shank is made of steel with dimensions of Ø10 with an internal M5 thread and a chamfer.

DC	OAL	LU	LS	ZEFP	INDICATION	
3	70	43	22	2	WPK04-0307043R	WPK04-0307043L
3	70	43	22	2	WPK04-0307043R	WPK04-0307043L
3	70	35	30	2	WPK04-0307035R	WPK04-0307035L
4	70	43	22	2	WPK04-0407043R	WPK04-0407043L
4	70	35	30	2	WPK04-0407035R	WPK04-0407035L
5	70	43	22	2	WPK04-0507043R	WPK04-0507043L
5	70	35	30	2	WPK04-0507035R	WPK04-0507035L
5,5	70	43	22	2	WPK04-05507035R	WPK04-05507035L
5,5	70	35	30	2	WPK04-05507035R	WPK04-05507035L
6	70	43	22	2	WPK04-0607043R	WPK04-0607043L
6	94	65	22	2	WPK04-0609465R	WPK04-0609465L
6	70	35	30	2	WPK04-0607035R	WPK04-0607035L
6	94	57	30	2	WPK04-0609457R	WPK04-0609457L
8	70	43	22	2	WPK04-0807043R	WPK04-0807043L
8	94	65	22	2	WPK04-0809465R	WPK04-0809465L
8	70	35	30	2	WPK04-0807035R	WPK04-0807035L
8	94	57	30	2	WPK04-0809457R	WPK04-0809457L
10	70	43	22	2	WPK04-01007043R	WPK04-01007043L
10	70	35	30	2	WPK04-01007035R	WPK04-01007035L



# WPK05 WPK06

PRO

**Description:**

Carbide twisted blind-hole drill with special forehead geometry.

**Application:**

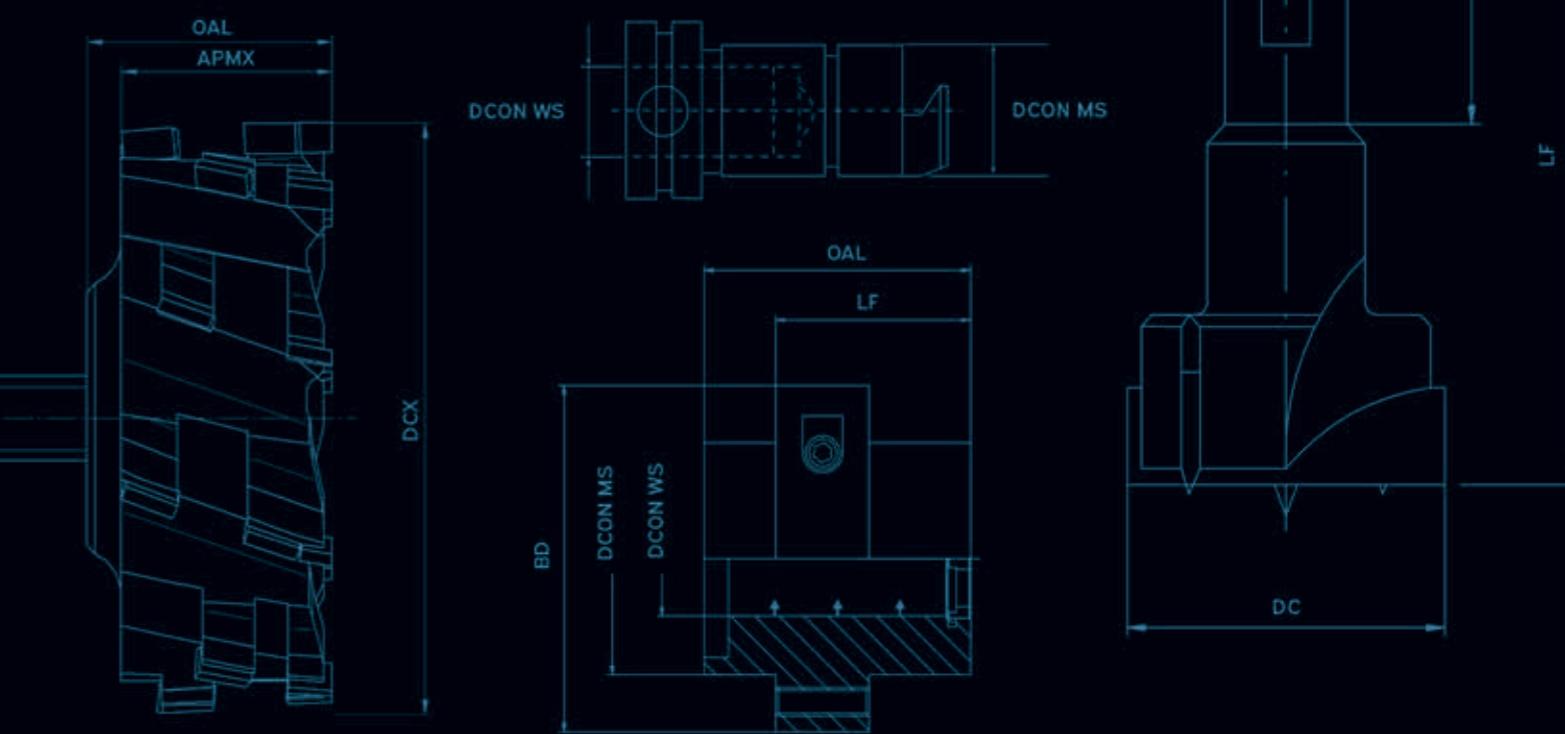
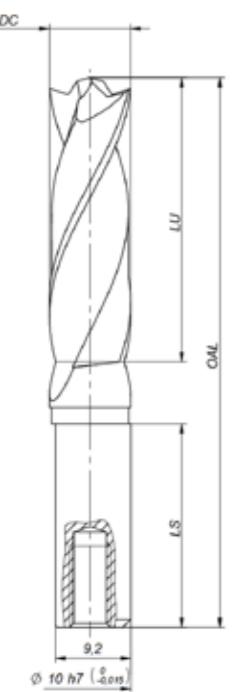
Processing of blind holes with the possibility of drilling through holes. CNC machining centers, plotters, CNC or conventional drills.

**Information:**

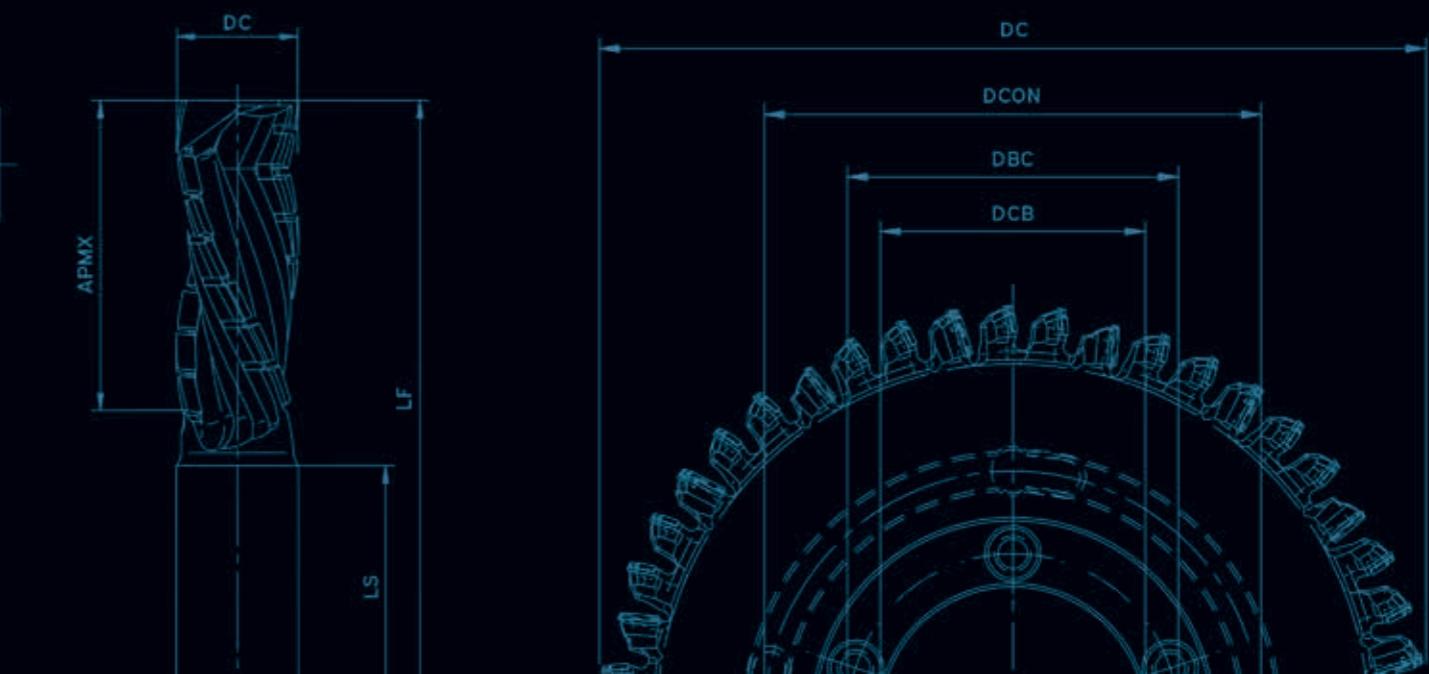
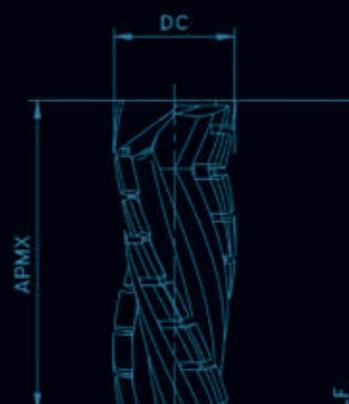
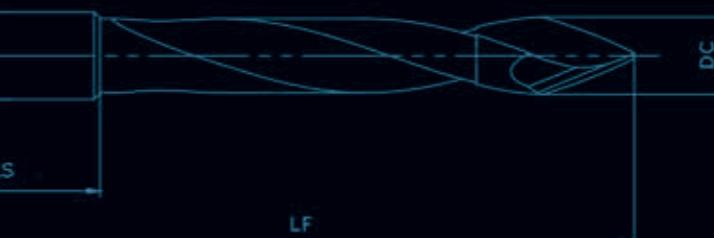
Mounting for a drill chuck and equipped with an adjusting screw. Very good quality of hole edges when drilling in solid wood.

**The shank is made of steel with dimensions of Ø10 with an internal M5 thread and a chamfer.**

DC	OAL	LU	LS	ZEFP	INDICATION	
8	70	35	30	2	WPK05-807035R	WPK05-0807035L
8	94	57	30	2	WPK05-0809457R	WPK05-0809457L
8	70	43	22	2	WPK06-0807043R	WPK06-0807043L
8	94	65	22	2	WPK06-0809465R	WPK06-0809465L
10	70	35	30	2	WPK05-01007035R	WPK05-01007035L
10	94	57	30	2	WPK05-01009457R	WPK05-01009457L
10	70	43	22	2	WPK06-01007043R	WPK06-01007043L
10	94	65	22	2	WPK06-01009465R	WPK06-01009465L
12	70	35	30	2	WPK05-01207035R	WPK05-01207035L
12	94	57	30	2	WPK05-01209457R	WPK05-01209457L
12	70	43	22	2	WPK06-01207043R	WPK06-01207043L
12	94	65	22	2	WPK06-01209465R	WPK06-01209465L

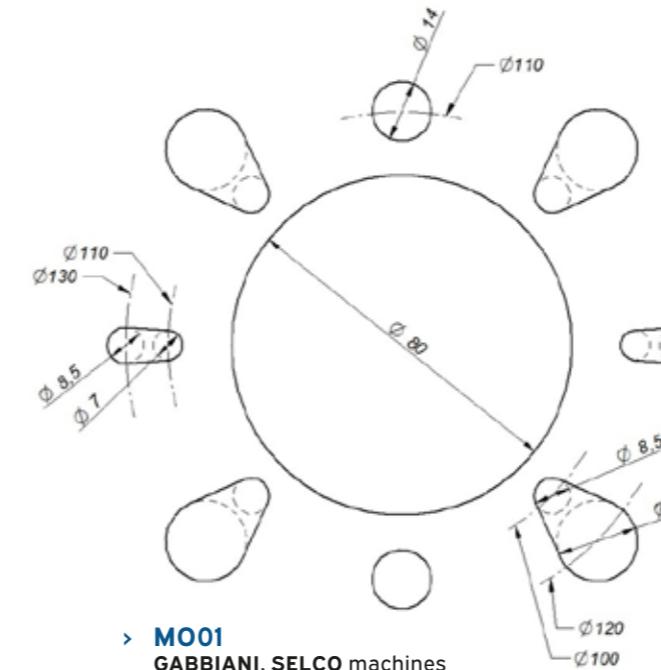
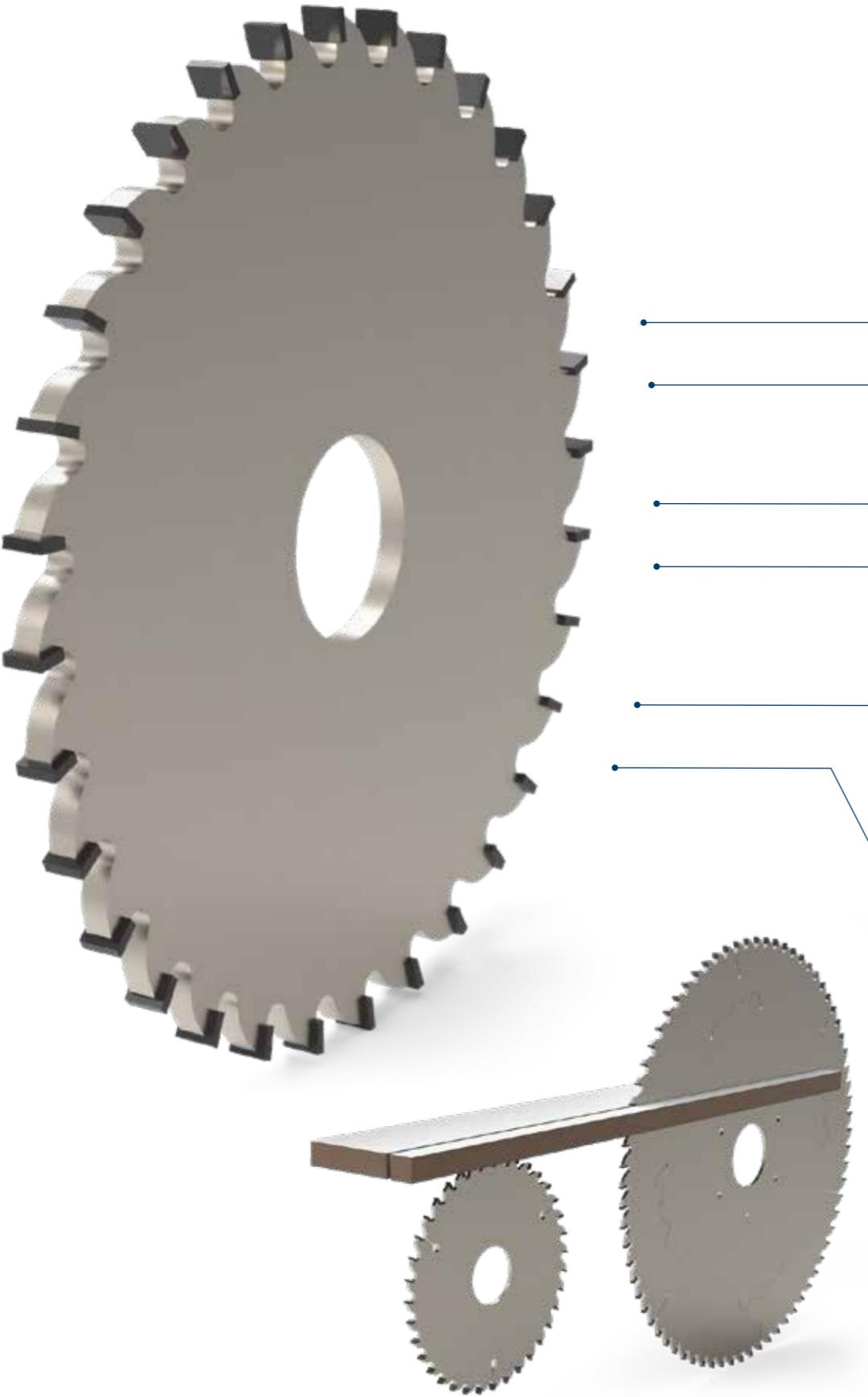


V

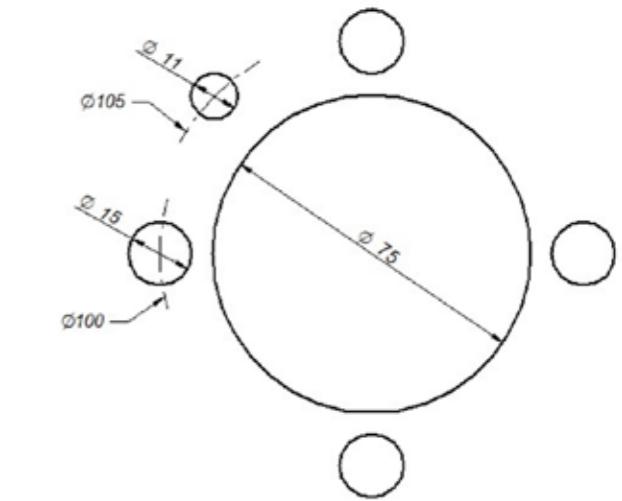
**SAWING**

## TECHNICAL SECTION

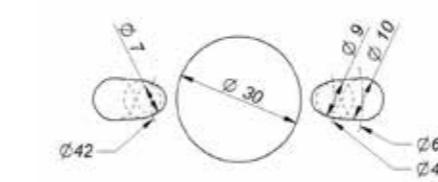
Saw mounting



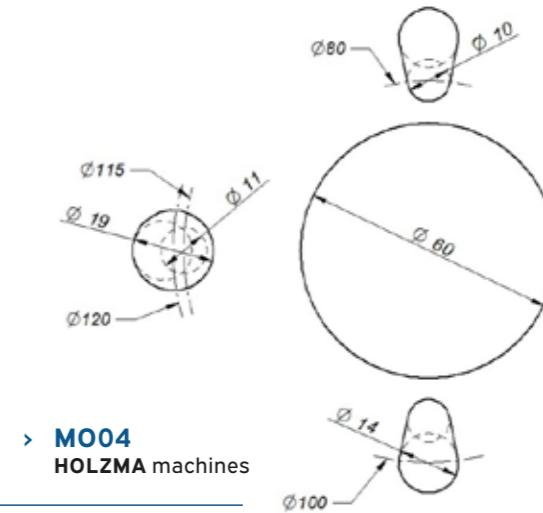
> MO01  
GABBIANI, SELCO machines



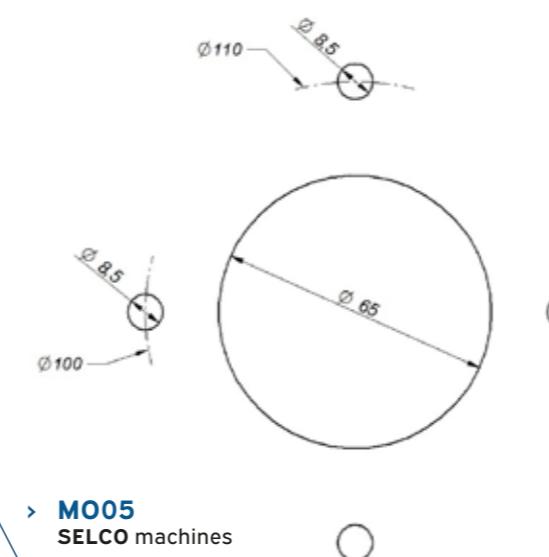
> MO02  
GIBEN, EUROMAC machines



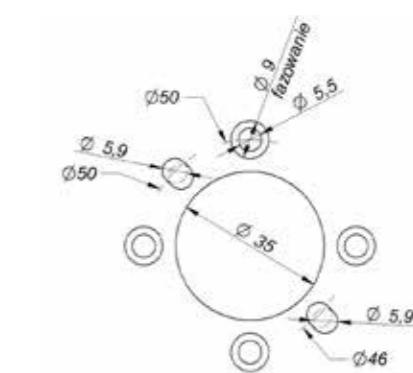
> MO03  
PANHANS, SCM, SCHEER,  
SCHELLING, CASADEI machines



> MO04  
HOLZMA machines



> MO05  
SELCO machines



> MO06  
BIESSE machines

**PDT1****Description:**

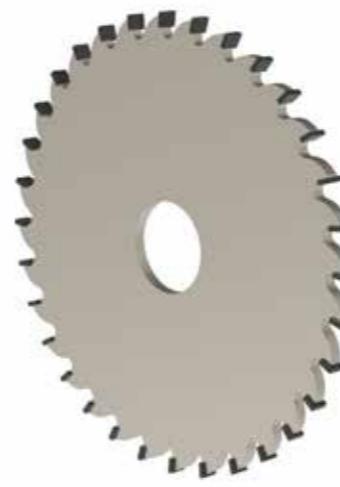
Circular Saw Blades DP.

**Application:**

Cutters for cutting grooves, frames for hardboard and glass, in coated wood-based boards before lamination, MDF boards and solid wood. Used on single and double-sided edgebanders.

**Information:**

Good machining quality and service life thanks to the optimized tool geometry. Saw for multiple sharpening.

**PDT2****Description:**

Circular Saw Blades DP.

**Application:**

Cutters for cutting grooves, frames for hardboard and glass, in coated wood-based boards before lamination, MDF boards and solid wood. Used on single and double-sided edgebanders.

**Information:**

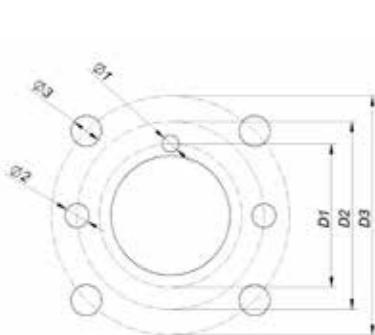
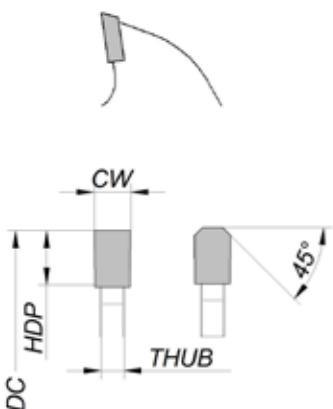
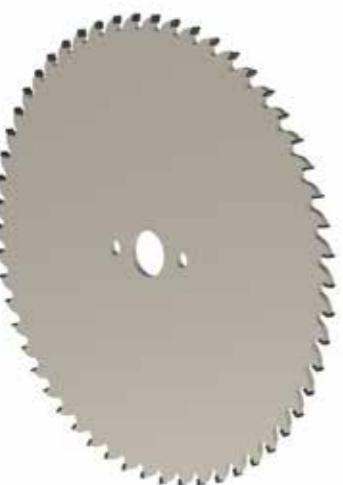
Good machining quality and service life thanks to the optimized tool geometry. Saw for multiple sharpening.

DC	CW	ZEFP	12	24	30	36	42	48	20	30	35	40	50	55	65	80	DCB+CH	INDICATION	HDP
120	3				•													PDT1-120 ** 01	6
120	3,5			•														PDT1-120 ** 02	6
120	4	•	•				•		•			•						PDT1-120 ** 03	6
120	5	•					•	•										PDT1-120 ** 04	6
125	3	•					•	•										PDT1-125 ** 01	6
125	3,2	•					•	•				•						PDT1-125 ** 02	6
125	3,5	•					•					•						PDT1-125 ** 03	6
125	4	•		•			•		•	•							PDT1-125 ** 04	6	
125	8	•	•				•											PDT1-125 ** 05	6
125	10	•					•											PDT1-125 ** 06	6
150	3	•					•											PDT1-150 ** 01	6
150	3,2	•	•				•											PDT1-150 ** 02	6
150	3,5	•	•				•											PDT1-150 ** 03	6
150	4	•	•	•			•	•	•	•	•							PDT1-150 ** 04	6
150	5	•	•				•				•							PDT1-150 ** 05	6
150	6	•	•				•				•							PDT1-150 ** 06	6
150	8	•	•				•				•							PDT1-150 ** 07	6
150	9		•								•							PDT1-150 ** 08	6
180	3		•								•							PDT1-180 ** 01	6
180	3,2		•	•	•		•	•	•	•	•							PDT1-180 ** 02	6
180	3,5		•	•														PDT1-180 ** 03	6
180	4		•	•	•		•		•	•	•		•					PDT1-180 ** 04	6
180	5		•	•	•		•		•	•	•		•					PDT1-180 ** 05	6
180	5,5		•				•			•								PDT1-180 ** 06	6
180	6		•	•						•	•							PDT1-180 ** 07	6
200	3,2		•	•						•	•							PDT1-200 ** 01	6
200	3,5		•	•						•	•							PDT1-200 ** 02	6
200	4		•	•	•		•	•	•	•	•		•					PDT1-200 ** 03	6
200	5		•	•	•		•	•	•	•	•		•					PDT1-200 ** 04	6

! When ordering, please indicate the appropriate data according to the pattern  $n/\varnothing 1/D1 + n/\varnothing 2/D2 + n/\varnothing 3/D3$



! When ordering, please indicate the appropriate data according to the pattern  $n/\varnothing 1/D1 + n/\varnothing 2/D2 + n/\varnothing 3/D3$



## PDT3

### Description:

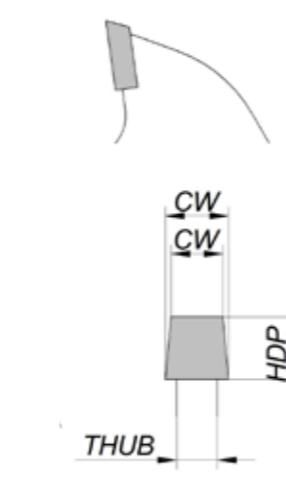
Circular Saw Blades DP.

### Application:

Saw blades used for single cutting and in packages of coated wood-based boards before lamination, MDF boards and solid wood. Used on longitudinal or angle saws according to the type of machine.

### Information:

Good machining quality and service life thanks to the optimized tool geometry. Saw for multiple sharpening.



## PDT4

### Description:

Scoring Saw Blades DP.

### Application:

Scoring tools used for undercutting coated wood-based boards before lamination, MDF boards and other materials. Mainly used for operation with circular saws with DP blades according to the type of machine.

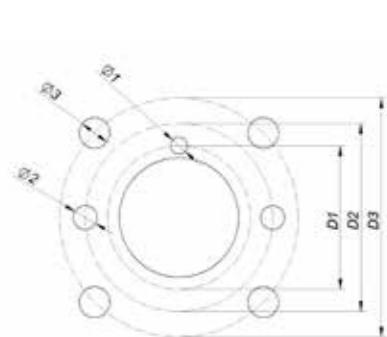
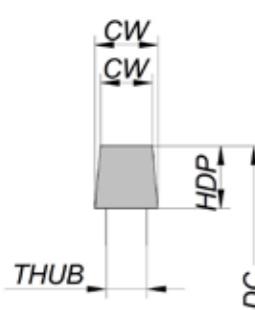
### Information:

Good machining quality and service life thanks to the optimized tool geometry. Saw for multiple sharpening.

DC	CW	THUB	ZEPF			DCB					INDICATION	HDP
			60	72	96	30	60	65	75	80		
300	3,20	2,2	•	•	•	•					PDT3-300 ** 01	6
300	4,40	3,2	•	•		•		•			PDT3-300 ** 02	6
305	4,40	3,2	•		•	•					PDT3-305 ** 01	6
320	4,40	3,2	•	•			•	•			PDT3-320 ** 01	6
350	4,40	3,2	•	•		•	•	•			PDT3-350 ** 01	6
355	4,40	3,2	•				•	•			PDT3-355 ** 01	6
360	4,40	3,2	•			•					PDT3-360 ** 01	6
380	4,40	3,2	•		•						PDT3-380 ** 01	6
380	4,80	3,5	•		•						PDT3-380 ** 02	6
400	4,40	3,2	•		•	•	•	•			PDT3-400 ** 01	6
400	4,80	3,2	•		•						PDT3-400 ** 02	6
420	4,80	3,5	•		•						PDT3-420 ** 01	6
430	4,40	3,2	•	•	•	•	•	•			PDT3-430 ** 01	6
450	4,40	3,2	•		•						PDT3-450 ** 01	6
450	4,80	3,5	•		•						PDT3-450 ** 02	6
460	4,40	3,2	•		•						PDT3-460 ** 01	6
470	4,40	3,2	•	•			•				PDT3-470 ** 01	6
480	4,40	3,2	•		•						PDT3-480 ** 01	6
480	4,80	3,5	•		•			•			PDT3-480 ** 02	6
500	4,40	3,2	•	•	•						PDT3-500 ** 01	6
500	4,80	3,5	•		•						PDT3-500 ** 02	6
520	4,80	3,5	•		•	•					PDT3-520 ** 01	6
550	5,00	3,5	•				•				PDT3-550 ** 01	6
565	5,00	3,5	•				•				PDT3-565 ** 01	6
600	5,80	4	•		•						PDT3-600 ** 01	6

! When ordering, please indicate the appropriate data according to the pattern  $n/\varnothing 1/D1 + n/\varnothing 2/D2 + n/\varnothing 3/D3$

! When ordering, please indicate the appropriate data according to the pattern  $n/\varnothing 1/D1 + n/\varnothing 2/D2 + n/\varnothing 3/D3$

**PDT5****DP****Description:**

Scoring Saw Blades DP.

**Application:**

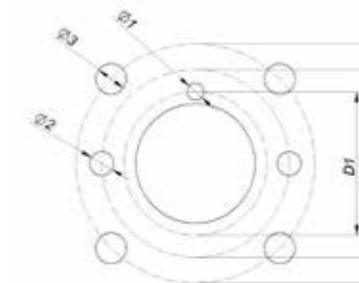
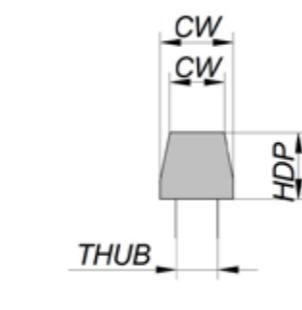
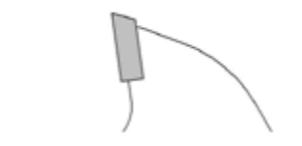
Scoring tools used for undercutting coated wood-based boards before lamination, MDF boards and other materials. Mainly used for operation with circular saws with DP blades according to the type of machine.

**Information:**

Good machining quality and service life thanks to the optimized tool geometry. Saw for multiple sharpening.

DC	CW/CW	ZEFP	24	32	36	42	48	72	16	20	22	30	45	50	60	65	80	INDICATION	HDP
80	3,1/4,6	•							•	•								PDT5-080 ** 01	4
100	3,1/4,6	•							•	•								PDT5-100 ** 01	4
120	3,1/4,6	•							•	•								PDT5-120 ** 01	4
125	3,1/4,6	•							•	•	•							PDT5-125 ** 01	4
125	4,3/5,7	•	•						•		•							PDT5-125 ** 02	4
140	3,1/4,6	•	•						•			•						PDT5-140 ** 01	4
150	4,3/5,7	•	•						•									PDT5-150 ** 01	4
160	3,1/4,6	•	•							•		•						PDT5-160 ** 01	4
160	4,3/5,7	•	•							•								PDT5-160 ** 02	4
180	3,1/4,6	•	•						•	•	•							PDT5-180 ** 01	4
180	4,3/5,7	•							•	•	•							PDT5-180 ** 02	4
180	4,7/6,2	•							•	•	•							PDT5-180 ** 03	4
180	4,9/6,4	•							•	•	•							PDT5-180 ** 04	4
180	5,7/7,2	•							•	•	•							PDT5-180 ** 05	4
200	3,1/4,6		•						•									PDT5-200 ** 01	4
200	4,3/5,7		•	•					•	•	•	•	•	•	•	•		PDT5-200 ** 02	4
200	4,7/6,2		•	•					•	•	•	•	•	•	•	•		PDT5-200 ** 03	4
200	4,9/6,4		•	•					•	•	•	•	•	•	•	•		PDT5-200 ** 04	4
200	5,7/7,2		•	•					•	•	•	•	•	•	•	•		PDT5-200 ** 05	4
215	4,3/5,7		•							•								PDT5-215 ** 01	4
280	4,7/6,2			•						•								PDT5-280 ** 01	4
300	4,3/5,7			•	•					•	•							PDT5-300 ** 01	4

! When ordering, please indicate the appropriate data according to the pattern  $n/\varnothing 1/D1 + n/\varnothing 2/D2 + n/\varnothing 3/D3$

**PDT6****DP****Description:**

Scoring Saw Blades DP.

**Application:**

Scoring tools used for undercutting coated wood-based boards before lamination, MDF boards and other materials. Mainly used for operation with circular saws with carbide blades, according to the type of machine.

**Information:**

Good machining quality and service life thanks to the optimized tool geometry. Saw for multiple sharpening.

DC	CW/CW	ZEFP	24	32	36	42	20	22	30	45	50	60	65	80	INDICATION	HDP		
100	3,1/4,6	•							•	•							PDT6-100 ** 01	6
120	3,1/4,6	•							•	•							PDT6-120 ** 01	6
125	3,1/4,6	•							•	•	•						PDT6-125 ** 01	6
125	4,3/5,7	•							•								PDT6-125 ** 02	6
160	4,3/5,7	•	•						•								PDT6-160 ** 01	6
180	4,3/5,7	•							•								PDT6-180 ** 01	6
180	4,7/6,2	•							•								PDT6-180 ** 02	6
200	4,3/5,7	•	•						•	•	•	•	•	•	•		PDT6-200 ** 01	6
200	4,7/6,2	•	•						•	•	•	•	•	•	•		PDT6-200 ** 02	6
215	4,3/5,7	•							•								PDT6-215 ** 01	6

! When ordering, please indicate the appropriate data according to the pattern  $n/\varnothing 1/D1 + n/\varnothing 2/D2 + n/\varnothing 3/D3$

**PTK1**

KANEFUS

**Description:**

Sizing Saw Blades HW.

**Application:**

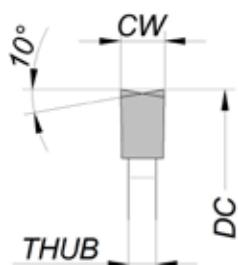
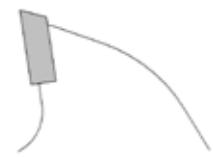
Universal saws used for cutting single solid wood and for single-cutting purposes as well as for packages of coated wood-based boards before lamination, MDF boards and plywood. Used on longitudinal or angle saws according to the type of machine.

**Information:**

Very good cutting quality and service life are ensured by the innovative type of carbide used for the teeth blades and the optimized geometry of the tool.

**HW**

DC	CW	THUB	DCB	MO	DCB+CH	ZEPF	INDICATION
250	3,2	2,2	30	2/10/60		80	PTK1-659A719484
300	3,2	2,2	30	2/10/60		60	PTK1-659A836484
300	3,2	2,2	30	2/10/60		72	PTK1-659A715484
300	3,2	2,2	-	2/10/60	30+2	96	PTK1-659A720403
350	3,5	2,5	30	2/10/60		54	PTK1-659A608484
350	3,2	2,2	30	2/10/60		72	PTK1-659A718484
350	3,2	2,2	30	2/10/60		84	PTK1-659A712484
350	3,2	2,2	30	2/10/60		108	PTK1-659A717484

**PTK2**

KANEFUS

**Description:**

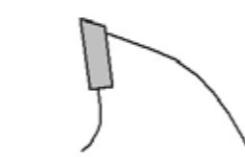
Sizing Saw Blades HW.

**Application:**

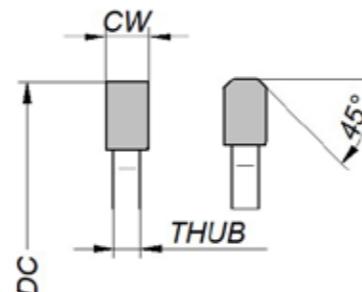
Saw blades used for single cutting and in packages of coated wood-based boards before lamination, MDF boards and solid wood. Used on longitudinal or angle saws according to the type of machine.

**Information:**

Very good cutting quality and service life are ensured by the innovative type of carbide used for the teeth blades and the optimized geometry of the tool.

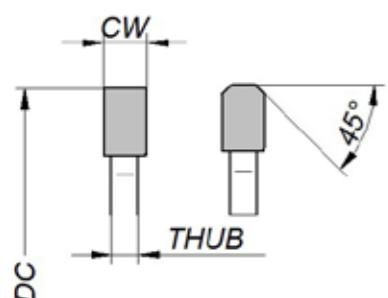
**HW**

DC	CW	THUB	DCB	MO	ZEPF	INDICATION
250	3,2	2,2	30	MO03	80	PTK2-69II697403
300	3,2	2,2	30	MO03	72	PTK2-69II892403
300	3,2	2,2	30	MO03	96	PTK2-69II619403
303	3,2	2,2	-	2/9/44 + 2/10/60	100	PTK2-69IB086484
350	3,2	2,2	30	2/10/60	80	PTK2-69IA153484
350	3,2	2,2	30	2/10/60	108	PTK2-69IA660484





HW

**Description:**

Sizing Saw Blades HW.

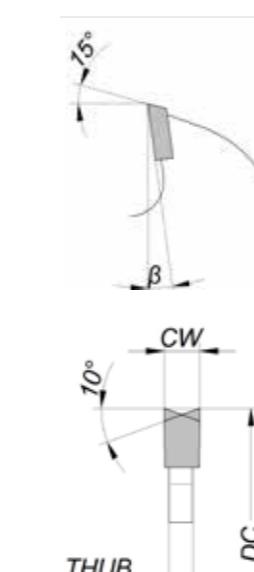
**Application:**

Saw blades used for cutting in packages of coated wood-based boards before lamination, MDF boards and solid wood. Used on longitudinal or angle saws according to the type of machine.

**Information:**

Very good cutting quality and service life are ensured by the innovative type of carbide used for the teeth blades and the optimized geometry of the tool.

DC	CW	THUB	DCB	MO	ZEFP	INDICATION	MACHINE
300	4,4	3,0	65	2/8,5/110	60	PTK3-691C506403	Selco
300	4,4	3,0	75		72	PTK3-691E260403	Homag
305	4,4	3,0	30	2/10/60	60	PTK3-691A628484	Mayer, Panhans
320	4,4	3,0	65	2/9/110	60	PTK3-691D506403	Selco, Biesse
350	4,4	3,2	30	2/10/60	72	PTK3-699G872403	Panhans, Schelling, SCM
350	4,4	3,2	60	2/14/100+2/14/125	72	PTK3-699M011491	Holzma
350	4,4	3,2	75	2/10/120	72	PTK3-691B583484	Giben
355	4,4	3,2	75		60	PTK3-691B072403	Giben
355	4,4	3,0	80	4/8,5/100+2/7/110+2/14/110	72	PTK3-691A469403	Gabbiani, SCM
360	4,4	3,2	30	2/10/60	72	PTK3-691KI03484	Schelling
380	4,4	3,2	60	2/14/110+2/14/125	72	PTK3-699H471491	Holzma
380	4,8	3,5	60	2/14/110+2/14/125	72	PTK3-699G046491	Holzma
400	4,25	3,2	30		72	PTK3-691A475403	Scheer
400	4,4	3,2	30	2/10/60	72	PTK3-691D831491	Schelling, HOLZ-HER
400	4,4	3,2	60	2/10/60	72	PTK3-691B690403	Anthon
400	4,8	3,5	60		72	PTK3-691E234403	Holzma
400	4,4	3,2	75	4/15/105	72	PTK3-699G871403	Giben, Homag
400	4,4	3,2	80	2/8,5/130+4/19/120	72	PTK3-691B914484	Gabbiani, SCM
420	4,8	3,5	60	2/14/125+2/19/120	72	PTK3-691A181403	Holzma
430	4,4	3,2	80	2/8,5/130+4/19/120	72	PTK3-699H838403	Selco
430	4,4	3,2	75	4/15/105	96	PTK3-691B734403	Giben
450	4,4	3,2	30	2/10/60	72	PTK3-691C024403	Schelling
450	4,4	3,2	75	2/8,5/110	72	PTK3-699M651491	Giben
450	4,8	3,5	60	2/14/125+2/19/120	72	PTK3-699G048491	Holzma
450	4,8	3,5	80	2/14/125+2/19/120	72	PTK3-699G873403	Gabbiani, SCM
460	4,4	3,2	30	2/10/60+2/13/94	72	PTK3-699L218491	Schelling
470	4,8	3,5	75	4/15/105	72	PTK3-691K001484	Giben
470	4,4	3,2	75	4/15/105	96	PTK3-691B951403	Giben
480	4,4	3,2	30	2/13/94	72	PTK3-699U874491	Schelling
480	4,8	3,5	60	2/9/130+4/19/120	72	PTK3-699T878491	Holzma
480	4,8	3,5	80	2/9/130+4/19/120	72	PTK3-699P038491	Selco
500	4,8	3,5	60	2/11/115	60	PTK3-691E004403	Holzma
500	4,8	3,5	60	2/11/115	72	PTK3-691A629403	Holzma
520	4,4	3,2	30	2/13/94	72	PTK3-659E361403	Schelling
520	4,8	3,5	60	2/11/115	60	PTK3-691C095403	Holzma
570	5,2	3,8	80	2/11/115	72	PTK3-691E661403	Giben
570	4,8	3,5	60	2/11/115+2/19/120	72	PTK3-699V052484	Holzma
600	5,8	4,0	60	2/11/115+2/19/120	72	PTK3-699V051484	Holzma
670	5,8	4,2	60	2/11/115+2/19/120	72	PTK3-691E378403	Holzma

**Description:**

Universal circular sawblades for ripping and cross cutting.

**Application:**

Wet and dry wood.

**Information:**

Saws for longitudinal cutting with the resultant good finish and excellent chip evacuation.

DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION
250	3,2	2,2	30	M003	24	15	PTWI-6001001
250	3,2	2,2	35	-	24	15	PTWI-6001002
300	3,2	2,2	30	M003	28	15	PTWI-6001003
300	3,2	2,2	35	-	28	18	PTWI-6001004
350	3,5	2,5	30	M003	32	18	PTWI-6001005
350	3,5	2,5	35	-	32	18	PTWI-6001006
400	3,8	2,5	30	M003	36	16	PTWI-6001007
400	3,8	2,5	35	-	36	16	PTWI-6001008
450	4,2	2,8	30	M003	40	18	PTWI-6001009
500	4,2	2,8	30	M003	44	18	PTWI-6001011
550	4,5	3,4	30	M003	48	20	PTWI-6001017
600	4,5	3,4	30	M003	54	20	PTWI-6001018

DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION
300	3,2	2,2	30	M003	36	13	PTWI-6002001
300	3,2	2,2	35	-	36	13	PTWI-6002002
350	3,5	2,5	30	M003	42	13	PTWI-6002003
350	3,5	2,5	35	-	42	13	PTWI-6002004
400	3,8	2,5	30	M003	48	13	PTWI-6002005
400	3,8	2,5	35	-	48	13	PTWI-6002006
500	4,2	2,8	30	M003	60	13	PTWI-6002007
550	4,5	3,4	30	M003	66	13	PTWI-6002012
600	4,5	3,4	30	M003	72	13	PTWI-6002011

**PTW2****Description:**

Universal circular sawblades for ripping and cross cutting.

**Application:**

Wet and dry wood.

**Information:**

Saws for longitudinal cutting with the resultant good finish and excellent chip evacuation.

**PTW3****Description:**

Circular saw with carbide blades.

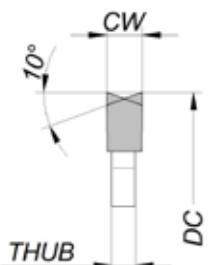
**Application:**

Soft, hard wood.

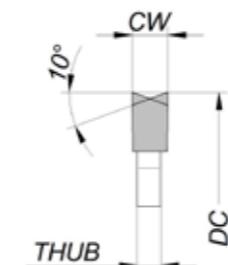
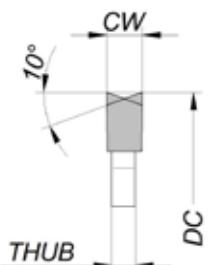
**Information:**

Saw blades for longitudinal and cross cuts with a perfect finish of softwood, hardwood and chipboards.

DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION
150	3,2	2,2	30	-	24	13	PTW2-6003001
180	3,2	2,2	30	-	30	13	PTW2-6003002
200	3,2	2,2	30	-	34	13	PTW2-6003003
200	3,2	2,2	35	-	34	13	PTW2-6003004
220	3,2	2,2	30	M003	34	13	PTW2-6003005
250	3,2	2,2	30	M003	40	13	PTW2-6003006
250	3,2	2,2	35	-	40	13	PTW2-6003007
300	3,2	2,2	30	M003	48	13	PTW2-6003008
300	3,2	2,2	35	-	48	13	PTW2-6003009
350	3,5	2,5	30	M003	54	13	PTW2-6003010
350	3,5	2,5	35	-	54	13	PTW2-6003011
400	3,8	2,5	30	-	60	13	PTW2-6003012
400	3,8	2,5	35	-	60	13	PTW2-6003013
450	4,2	2,8	30	-	66	13	PTW2-6003014
500	4,2	2,8	30	-	72	13	PTW2-6003016



DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION
150	3,2	2,2	30	-	30	12	PTW2-6004001
180	3,2	2,2	30	-	36	12	PTW2-6004002
220	3,2	2,2	30	M003	48	12	PTW2-6004003
250	3,2	2,2	30	M003	48	12	PTW2-6004004
250	3,2	2,2	35	-	48	12	PTW2-6004005
300	3,2	2,2	30	M003	60	12	PTW2-6004006
300	3,2	2,2	35	-	60	12	PTW2-6004007
350	3,5	2,5	30	M003	72	12	PTW2-6004008
350	3,5	2,5	35	-	72	12	PTW2-6004009
400	3,8	2,5	30	-	80	12	PTW2-6004010
400	3,8	2,5	35	-	80	12	PTW2-6004011
450	4,2	2,8	30	-	84	12	PTW2-6004012
500	4,2	2,8	30	-	108	12	PTW2-6004014



DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION
150	3,2	2,2	30	-	36	12	PTW3-6005001
180	3,2	2,2	30	-	48	12	PTW3-6005002
200	3,2	2,2	30	-	48	12	PTW3-6005003
200	3,2	2,2	35	-	48	12	PTW3-6005004
250	3,2	2,2	30	M003	60	12	PTW3-6005005
250	3,2	2,2	35	-	60	12	PTW3-6005006
300	3,2	2,2	30	M003	72	12	PTW3-6005007
300	3,2	2,2	35	-	72	12	PTW3-6005008
350	3,5	2,5	30	M003	84	12	PTW3-6005009
350	3,5	2,5	35	-	84	12	PTW3-6005010
400	3,8	2,5	30	-	96	12	PTW3-6005011
400	3,8	2,5	35	-	96	12	PTW3-6005012
450	4,2	2,8	30	-	108	12	PTW3-6005013
500	4,2	2,8	30	-	120	12	PTW3-6005014

DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION
150	3,2	2,2	30	-	48	10	PTW3-6006001
180	3,2	2,2	30	-	56	10	PTW3-6006002
200	3,2	2,2	30	-	64	10	PTW3-6006003
200	3,2	2,2	35	-	64	10	PTW3-6006004
250	3,2	2,2	30	M003	80	10	PTW3-6006005
250	3,2	2,2	35	-	80	10	PTW3-6006006
300	3,2	2,2	30	M003	96	10	PTW3-6006007
300	3,2	2,2	35	-	96	10	PTW3-6006008
330	3,2	2,2	30	M003	96	10	PTW3-6006009
350	3,5	2,5	30	M003	108	10	PTW3-6006010
350	3,5	2,5	35	-	108	10	PTW3-6006011
400	3,8	2,5	30	-	120	10	PTW3-6006012
400	3,8	2,5	35	-	120	10	PTW3-6006013
450	4,2	2,8	30	-	132	10	PTW3-6006014

**PTW4****Description:**

Sawblades for multiblades with shavings.

**Application:**

Dry and wet wood.

**Information:**

Circular saw blade with a good finish for processing dry and damp wood.

**PTW5****Description:**

Sawblades for multiblades with shavings.

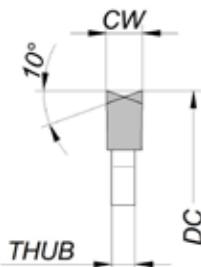
**Application:**

Hardwood, laminated boards, bamboo.

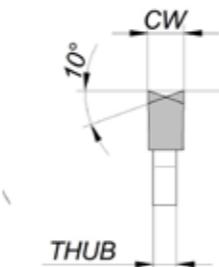
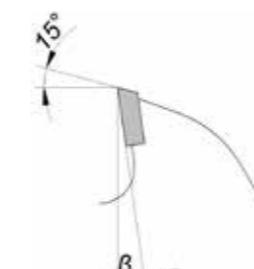
**Information:**

Saw for longitudinal and cross cut with a perfect, high-quality finish on hardwood, laminate and bamboo boards.

DC	CW	THUB	DCB+CH	ZEFP	B	INDICATION
250	3,2	2,2	60+2	20+4	18	PTW4-6029001
250	3,2	2,2	70+2	20+4	18	PTW4-6029002
250	3,2	2,2	80+2	20+4	18	PTW4-6029003
300	3,2	2,2	60+2	24+4	20	PTW4-6029004
300	3,2	2,2	70+2	24+4	20	PTW4-6029005
300	3,2	2,2	80+2	24+4	20	PTW4-6029006
350	3,5	2,5	60+2	28+6	20	PTW4-6029007
350	3,5	2,5	70+2	28+6	20	PTW4-6029008
350	3,5	2,5	80+2	28+6	20	PTW4-6029009
400	3,8	2,8	70+2	32+6	20	PTW4-6029010



DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION
250	2,9	2,5	30	M003	80	10	PTW5-6012001
300	2,9	2,5	30	PH03	96	10	PTW5-6012002
330	3,4	3,0	30	PH03	96	10	PTW5-6012003
350	3,4	3,0	30	PH03	108	10	PTW5-6012004



**PTW6****Description:**

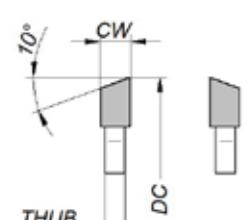
Sawblades for edge-banding machines.

**Application:**

Cutting off the excess periphery.

**Information:**

Scoring saw with a left or right bevel, for cutting plastics and chipboards coated with laminates.



Kierunek obrotów  
Lewy Prawy

DC	CW	THUB	DCB	MO	ZEFP	B	INDICATION		MACHINE
							R	L	
85	3,2	2,2	30	-	12	10	PTW6-6019021	PTW6-6019022	BI-MATIC
120	3,6	2,8	40	4	20+4	15	PTW6-6019005	PTW6-6019006	BIESSE
125	2,6	1,8	20	-	16+4	15	PTW6-6019009	PTW6-6019010	ELWOOD
140	3,2	2,2	30	-	-24	15	PTW6-6019001	PTW6-6019002	-
150	3,8	2,5	35	4	24+6	10	PTW6-6019007	PTW6-6019008	STEFANI
100	2,6	1,6	30	-	30	10	PTW6-6019015	PTW6-6019016	STEFANI
125	3,2	2,2	30	-	24	10	PTW6-6019017	PTW6-6019018	EBS

**PTW7****Description:**

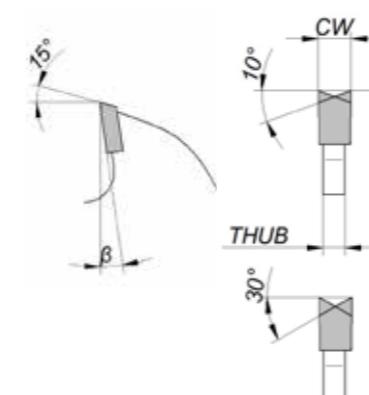
Widia circular saw.

**Application:**

Chipboard, MDF.

**Information:**

Saw blade with undercutting blades with alternating teeth for cutting double-sided coated boards.



DC	CW	THUB	DCB	ZEFP	B	INDICATION
100*	2,6	1,6	30	20	10	PTW7-6020005
100	3,2	2,2	20	20	10	PTW7-6020006
115*	2,6	1,6	30	24	10	PTW7-6020004
115	3,2	2,2	20	24	10	PTW7-6020001
120	3,2	2,2	20	24	10	PTW7-6020002
125	3,2	2,2	20	30	10	PTW7-6020003

**Description:**

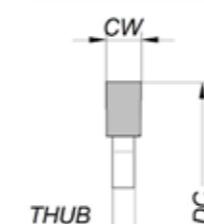
Widia circular saw.

**Application:**

Chipboard, MDF.

**Information:**

Saw with undercutting blades with a straight tooth for mounting on a CNC angular unit.



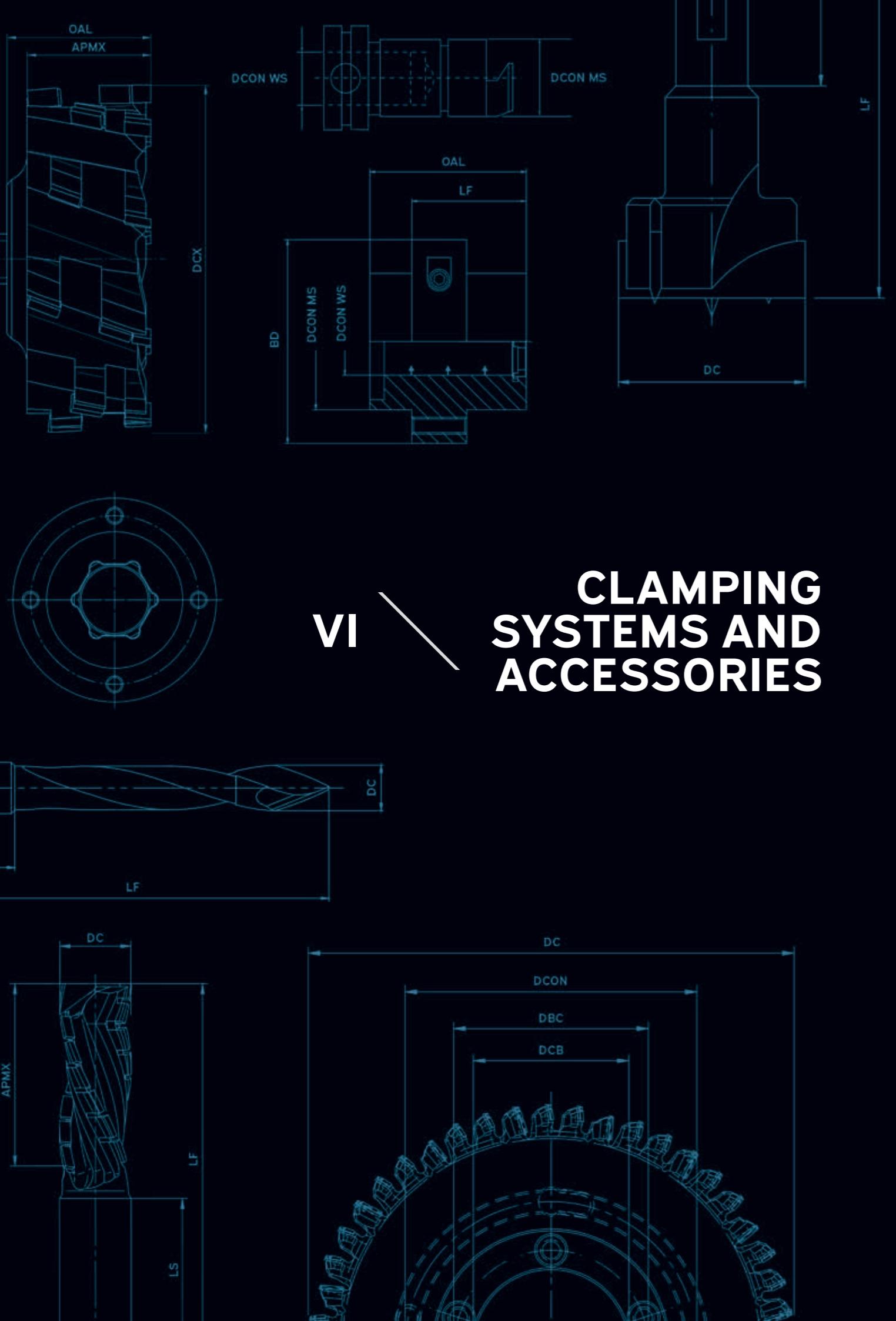
DC	CW	THUB	DCB	ZEFP	B	INDICATION
100	4,0	20	-	20	10	PTW7-6044001
120	4,0	20	-	20	10	PTW7-6044003
120	4,0	35	MO06	30	10	PTW7-6044004
125	4,0	20	-	20	10	PTW7-6044006
150	4,0	30	-	30	10	PTW7-6044007
180	4,0	35	1/6-46, 1/6-50.	42	10	PTW7-6044009
200	3,2	30	-	34	10	PTW7-6044010
215	4,0	35	1/6-50.	50	10	PTW7-6044011

Holder types

CNC	CLAMPING SYSTEMS	FOR SAWS	DRILL

VI

## CLAMPING SYSTEMS AND ACCESSORIES

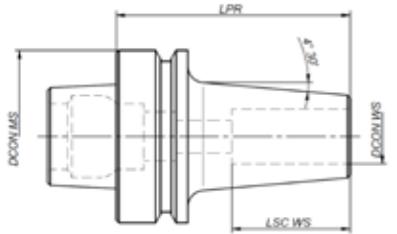


## UCT1



Shrink-fit chuck

DCON WS	LPR	LSC WS	BALANCING	INDICATION
4	75	18	24000	UCT1-63F04075
6	75	28	24000	UCT1-63F06075
8	75	35	24000	UCT1-63F08075
10	75	40	24000	UCT1-63F10075
12	75	42	24000	UCT1-63F12075
14	75	47	24000	UCT1-63F14075
16	75	50	24000	UCT1-63F16075
18	75	50	24000	UCT1-63F18075
20	75	52	24000	UCT1-63F20075
4	90	18	24000	UCT1-63F04090
6	90	28	24000	UCT1-63F06090
8	90	35	24000	UCT1-63F08090
10	90	40	24000	UCT1-63F10090
12	90	42	24000	UCT1-63F12090
14	90	47	24000	UCT1-63F14090
16	90	50	24000	UCT1-63F16090
18	90	50	24000	UCT1-63F18090
20	90	52	24000	UCT1-63F20090
25	90	58	24000	UCT1-63F25090
32	90	58	24000	UCT1-63F32090



**Shrink-fit chuck is a precise and reliable mounting system for high speed use.**

## UCZ1



Collet chuck with hollow taper shank HSK

DCON MS	CSI	DCON WS	LPR	INDICATION LH	INDICATION RH
50F	ER32	3-20	73	UCZ1-50F32073L	UCZ1-50F32073R
50F	ER40	4-30	75	UCZ1-50F40075L	UCZ1-50F40075R
50F	EOC25	2-25	90	UCZ1-50F25075L	UCZ1-50F25075R
63F	ER32	3-20	73	UCZ1-63F32073L	UCZ1-63F32073R
63F	ER40	4-30	80	UCZ1-63F40080L	UCZ1-63F40080R
63F	EOC25	2-25	90	UCZ1-63F25090L	UCZ1-63F25090R



Accessories

## &gt; Precision collets ER

ER	DCON MS	INDICATION
32	3-2	UCA1-32ER03
32	4-3	UCA1-32ER04
32	5-4	UCA1-32ER05
32	6-5	UCA1-32ER06
32	8-7	UCA1-32ER08
32	10-9	UCA1-32ER10
32	12-11	UCA1-32ER12
32	13-12	UCA1-32ER13
32	14-13	UCA1-32ER14
32	15-14	UCA1-32ER15
32	16-15	UCA1-32ER16
32	18-17	UCA1-32ER18
32	20-19	UCA1-32ER20
40	3-2	UCA1-40ER03
40	4-3	UCA1-40ER04
40	5-4	UCA1-40ER05
40	6-5	UCA1-40ER06
40	8-7	UCA1-40ER08
40	10-9	UCA1-40ER10
40	12-11	UCA1-40ER12
40	13-12	UCA1-40ER13
40	14-13	UCA1-40ER14
40	15-14	UCA1-40ER15
40	16-15	UCA1-40ER16
40	18-17	UCA1-40ER18
40	20-19	UCA1-40ER20
40	22-21	UCA1-40ER22
40	25-24	UCA1-40ER25
40	30-29	UCA1-40ER30

## &gt; Precision collets EOC

EOC	DCON MS	INDICATION
25	3-2,5	UCA2-25E003
25	4-3,5	UCA2-25E004
25	5-4,5	UCA2-25E005
25	6-5,5	UCA2-25E006
25	8-7,5	UCA2-25E008
25	10-9,5	UCA2-25E010
25	12-11,5	UCA2-25E012
25	13-12,5	UCA2-25E013
25	14-13,5	UCA2-25E014
25	15-14,5	UCA2-25E015
25	16-15,5	UCA2-25E016
25	18-17,5	UCA2-25E018
25	20-19,5	UCA2-25E020
25	25-24,5	UCA2-25E025



## Collet chuck ISO

DCON MS	CSI	DCON WS	LPR	INDICATION LH	INDICATION RH
30	ER32	3-20	50	UCZ2-30I32050L	UCZ2-30I32050R
30	ER32	3-20	68	UCZ2-30I32068L	UCZ2-30I32068R
30	ER40	4-30	57	UCZ2-30I40057L	UCZ2-30I40057R
30	ER40	4-30	68	UCZ2-30I40068L	UCZ2-30I40068R
30	EOC25	2-25	70	UCZ2-30I25070L	UCZ2-30I25070R
40	ER32	3-20	68	UCZ2-40I32068L	UCZ2-40I32068R
40	ER40	4-30	68	UCZ2-40I40068L	UCZ2-40I40068R
40	EOC25	2-25	74	UCZ2-40I25074L	UCZ2-40I25074R



## Accessories

## &gt; Precision collets ER

ER	DCON MS	INDICATION
32	3-2	UCA1-32ER03
32	4-3	UCA1-32ER04
32	5-4	UCA1-32ER05
32	6-5	UCA1-32ER06
32	8-7	UCA1-32ER08
32	10-9	UCA1-32ER10
32	12-11	UCA1-32ER12
32	13-12	UCA1-32ER13
32	14-13	UCA1-32ER14
32	15-14	UCA1-32ER15
32	16-15	UCA1-32ER16
32	18-17	UCA1-32ER18
32	20-19	UCA1-32ER20
40	3-2	UCA1-40ER03
40	4-3	UCA1-40ER04
40	5-4	UCA1-40ER05
40	6-5	UCA1-40ER06
40	8-7	UCA1-40ER08
40	10-9	UCA1-40ER10
40	12-11	UCA1-40ER12
40	13-12	UCA1-40ER13
40	14-13	UCA1-40ER14
40	15-14	UCA1-40ER15
40	16-15	UCA1-40ER16
40	18-17	UCA1-40ER18
40	20-19	UCA1-40ER20
40	22-21	UCA1-40ER22
40	25-24	UCA1-40ER25
40	30-29	UCA1-40ER30

## &gt; Precision collets EOC

EOC	DCON MS	INDICATION
25	3-2,5	UCA2-25E003
25	4-3,5	UCA2-25E004
25	5-4,5	UCA2-25E005
25	6-5,5	UCA2-25E006
25	8-7,5	UCA2-25E008
25	10-9,5	UCA2-25E010
25	12-11,5	UCA2-25E012
25	13-12,5	UCA2-25E013
25	14-13,5	UCA2-25E014
25	15-14,5	UCA2-25E015
25	16-15,5	UCA2-25E016
25	18-17,5	UCA2-25E018
25	20-19,5	UCA2-25E020
25	25-24,5	UCA2-25E025



## Description:

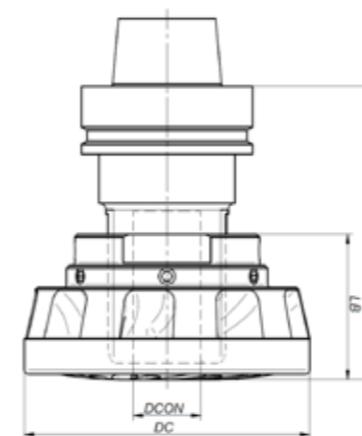
Hydraulic chuck with rotor.

## Application:

Mounting shank cutters with cylindrical shank.

## Information:

- > cone HSK 63F,
- > hydraulic tool clamp,
- > adjustable LF functional length for optimal setting,
- > supporting the removal of chips from the processing zone,
- > clamping force adjusted with a key,
- > quick and easy assembly of the tool,
- > the possibility of using reduction sleeves, in order to attach tools with a smaller shank.



## Accessories



## &gt; Universal Reducing Bushings H98

DCON WS	DCON MS	INDICATION
25	3	UCA3-25HS03
25	4	UCA3-25HS04
25	5	UCA3-25HS05
25	6	UCA3-25HS06
25	8	UCA3-25HS08
25	10	UCA3-25HS10
25	12	UCA3-25HS12
25	14	UCA3-25HS14
25	16	UCA3-25HS16
25	20	UCA3-25HS20



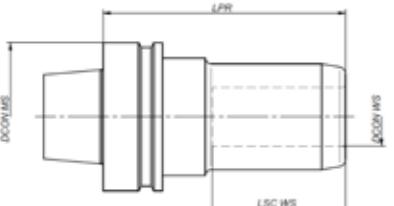
H98 COLLET is used on CNC machines in ISO 30, HSK63F chucks.  
In conformity to DIN 6388.



## Hydraulic chuck

DCON WS	LPR	LSC WS	BALANCING	INDICATION
12	85	42	24000	UCH1-63F12085
16	95	50	24000	UCH1-63F16095
20	95	52	18000	UCH1-63F20095
25	120	58	18000	UCH1-63F25I20
32	120	58	18000	UCH1-63F32I20

! The hydraulic chuck is ideal solution for workpiece machining, milling and drilling. It provides high clamping accuracy, absorbs vibrations well and is easy to use.



## Accessories

## &gt; Universal Reducing Bushings H98

DCON WS	DCON MS	INDICATION
25	3	UCA3-25HS03
25	4	UCA3-25HS04
25	5	UCA3-25HS05
25	6	UCA3-25HS06
25	8	UCA3-25HS08
25	10	UCA3-25HS10
25	12	UCA3-25HS12
25	14	UCA3-25HS14
25	16	UCA3-25HS16
25	20	UCA3-25HS20

! H98 COLLET is used on CNC machines in ISO 30, HSK63F chucks. In conformity to DIN 6388.



## Mounting Arbors HSK

DCON MS	DCON WS	LS CWS	LF	INDICATION
50F	20	70	42	UCNI-50F20070
50F	30	70	42	UCNI-50F30070
50F	30	80	42	UCNI-50F30080
50F	30	100	42	UCNI-50F30100
50F	30	150	42	UCNI-50F30150
50F	35	70	42	UCNI-50F35070
50F	35	80	42	UCNI-50F35080
50F	35	100	42	UCNI-50F35100
50F	35	150	42	UCNI-50F35150
63F	20	70	33	UCNI-63F20070
63F	30	70	33	UCNI-63F30070
63F	30	80	33	UCNI-63F30080
63F	30	100	33	UCNI-63F30100
63F	30	150	33	UCNI-63F30150
63F	35	70	33	UCNI-63F35070
63F	35	80	33	UCNI-63F35080
63F	35	100	33	UCNI-63F35100
63F	35	150	33	UCNI-63F35150
63F	40	70	33	UCNI-63F35070
63F	40	80	33	UCNI-63F35080
63F	40	100	33	UCNI-63F35100
63F	40	150	33	UCNI-63F35150

## UCT2



## Mounting Arbors WEINIG

DCON MS	DCON WS	LS CWS	INDICATION
80	30	100	UCT2-80W30100
80	30	150	UCT2-80W30150
80	30	200	UCT2-80W30200
80	30	250	UCT2-80W30250
80	35	100	UCT2-80W35100
80	35	150	UCT2-80W35150
80	35	200	UCT2-80W35200
80	35	250	UCT2-80W35250
80	40	100	UCT2-80W40100
80	40	150	UCT2-80W40150
80	40	200	UCT2-80W40200
80	40	250	UCT2-80W40250



## OTHER ACCESSORIES

## Clamping Nuts

## &gt; Collet nut

H	ER	D	M	D1	ROT.DIRECTION	INDICATION
20	25	1-16	M32X1,5	42	Right	UCA9-25GHCOD
20	25	1-16	M32X1,5	42	Left	UCA9-25GHCS
22,5	32	3-20	M40X1,5	50	R	UCA9-32GHCOD
22,5	32	3-20	M40X1,5	50	L	UCA9-32GHCS
25,5	40	4-30	M50X1,5	63	R	UCA9-40GHCOD
25,5	40	4-30	M50X1,5	63	L	UCA9-40GHCS

## &gt; Ball bearing collet nut

H	ER	D	M	D1	ROT.DIRECTION	INDICATION
26	32	3-20	M40X1,5	50	R	UCA9-32GHRSF
29	40	4-30	M50X1,5	63	R	UCA9-40GHRSF

## &gt; Holder BT40

disassembly with mounting HSK63

STOŽEK	INDICATION
HSK 63F	UCA8-HSK63F

## &gt; Wrenches with side grip

ROZMIAR	INDICATION
58/62	UCA9-H5862

## &gt; Wrenches for standard nut

ER	INDICATION
25	UCA9-25CHVST
32	UCA9-32CHVST
40	UCA9-40CHVST

**UNH1****ETP AI****Description:**

Hydraulic sleeve with one-sided clamp.

**Application:**

Mounting of arbor cutters (also in a set) on the spindle shaft.

**Information:**

- one-sided clamp on the spindle shaft,
- very high accuracy of connection with the spindle affecting the quality of cutting,
- clamping force adjustment with a key.

**UNH2****ETP CI****Description:**

Hydraulic sleeve with double-sided clamp.

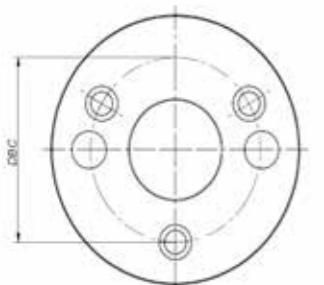
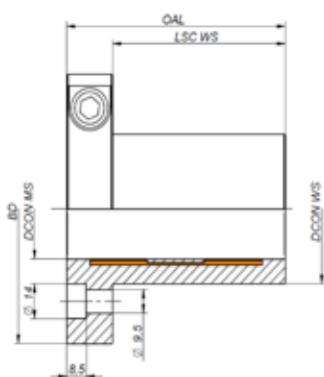
**Application:**

Mounting of arbor cutters (also in a set) on the spindle shaft.

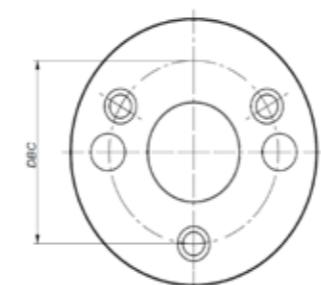
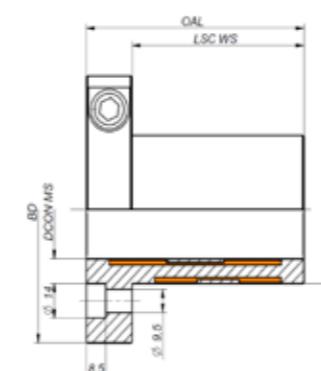
**Information:**

- two-sided clamp,
- very high accuracy of connection with the spindle affecting the quality of cutting,
- high accuracy of the connection between the holder and the tool, the tool can be changed without removing the holder from the spindle,
- clamping force adjustment with a key.

DCON WS	DCON MS	BD	OAL	LSC WS	DBC	INDICATION
50	40	83	55	35	64	UNH1-4050055
60	40	93	55	35	74	UNH1-4060055
60	50	93	55	35	74	UNH1-5060055
60	50	93	75	55	74	UNH1-5060075
65	50	98	75	55	80	UNH1-5065075



DCON WS	DCON MS	BD	OAL	LSC WS	DBC	INDICATION
50	40	100	75	55	64	UNH2-4050075
60	40	102	75	55	74	UNH2-4060075
60	40	108	95	75	74	UNH2-4060095
60	40	108	115	95	74	UNH2-4060115
60	40	114	140	115	74	UNH2-4060140
60	50	102	75	55	74	UNH2-5060075
60	50	108	95	75	74	UNH2-5060095
60	50	108	115	95	74	UNH2-5060115
60	50	114	140	115	74	UNH2-5060140



## URH1



EI-40/80-92

**Description:**

Hydro Clamping Bushings with hexagonal adapter bottom.

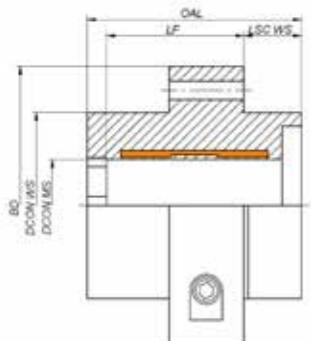
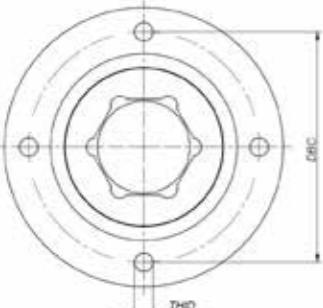
**Application:**

Mounting of shredders and cutters on the spindle shaft with a hexagonally-shaped connection.

**Information:**

- one-sided clamp from the spindle side,
- alternating hexagonal element, allowing assembly of the holder on any side,
- very high accuracy of connection with the spindle affecting the quality of cutting,
- clamping force adjustment with a key.

DCON WS	DCON MS	BD	OAL	LF	LSC WS	DBC	THID	INDICATION
80	40	120	92	58.5	25	100	4 x M8	URHI-40080

**Accessories****> Safety element**

## URH2



EI2-40/60-96

**Description:**

Hydro Clamping Bushings with hexagonal adapter bottom

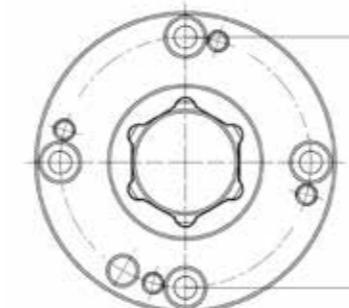
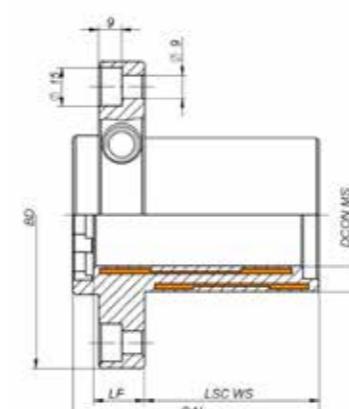
**Application:**

Mounting of shredders and cutters on the spindle shaft with a hexagonally-shaped connection.

**Information:**

- two-sided clamp,
- very high accuracy of connection with the spindle affecting the quality of cutting,
- high accuracy of the connection between the holder and the tool, the tool can be changed without removing the holder from the spindle,
- clamping force adjustment with a key.

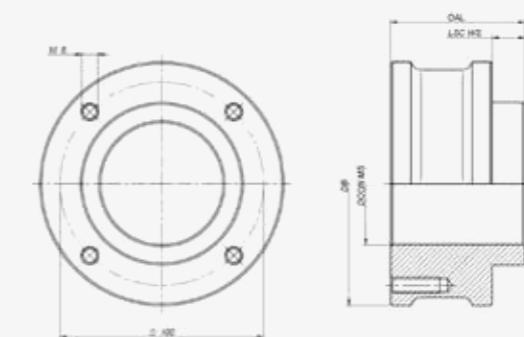
DCON WS	DCON MS	BD	OAL	LF	LSC WS	DBC	THID	INDICATION
60	40	125	96	20	68	100	4 x M8	URH2-40060

**Accessories****> Hex key****> Safety element****> Tuleja dystansowa do uchwytu URH2****Zastosowanie:** Montaż rozdrabniaczy na uchwycie URH2

DCON WS	DCON MS	BD	OAL	LSC WS	THID	INDICATION
80	60	120	46		4xM8	URAH2-01

DCON WS	DCON MS	BD	OAL	LSC WS	THID	INDICATION
80	60	120	62	16	4xM8	URAH2-02



In order to use standard shredders, use the U500 spacer sleeve.

**STANDARD HOLDER****Description:**

Standard clamping system.

**Application:**

Mounting on a spindle shaft with a prismatic key.

**Information:**

- simple structure,
- must be disassembled with the tool.

**QUICK-CHANGE HOLDER****Description:**

Quick-clamping system for hogers.

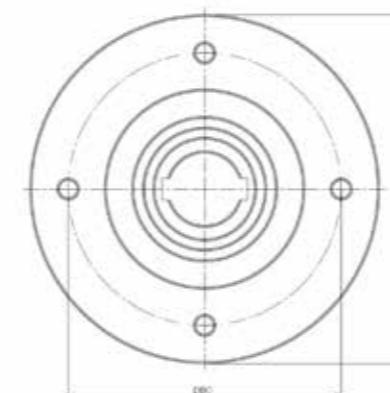
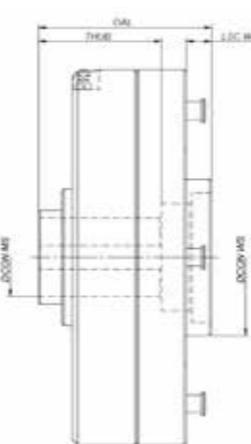
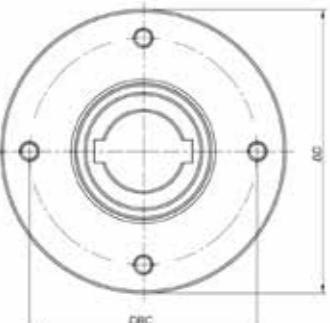
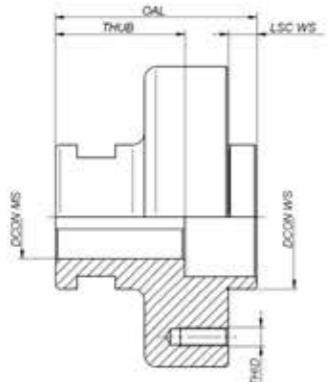
**Application:**

Mounting of shredders and arbor cutters on the spindle shaft with a prismatic key.

**Information:**

- quick and easy tool replacement,
- repeatable fastening,
- tool replacement with means of compressed air.

DCON WS	DCON MS	BD	OAL	THUB	LSC WS	DBC	THID	INDICATION
60	35	125	84	54	12	100	4 x M8	URSI-35060
60	40	125	84	54	12	100	4 x M8	URSI-40060
80	35	125	90	60	16	100	4 x M8	URSI-35080
80	40	125	90	60	16	100	4 x M8	URSI-40080



DCON WS	DCON MS	BD	OAL	THUB	LSC WS	DBC	INDICATION
x	35	110	63	47,5	x	3 x 80	URFI-35110
60	35	160	77,5	56,5	19,5	4 x 130	URFI-35160
80	35	192	88	62,5	13	4 x 150	URFI-35192
x	40	110	63	47,5	x	3 x 80	URFI-40110
60	40	160	77,5	56,5	19,5	4 x 130	URFI-40160
80	40	192	88	62,5	13	4 x 150	URFI-40192

**ADJUSTABLE HOLDER****Description:**

Adjustable clamping system for hogers.

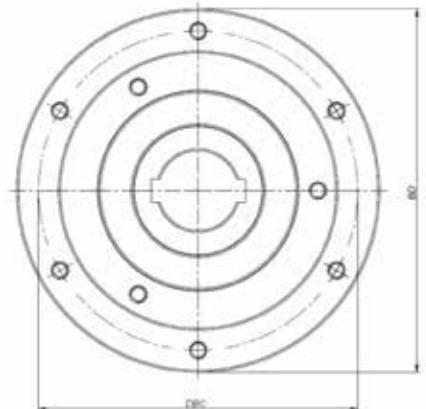
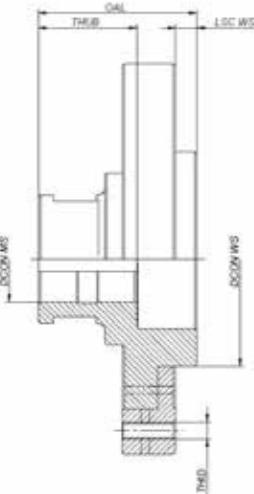
**Application:**

Mounting of shredders with a prismatic key.

**Information:**

- the highest clamping accuracy resulting in the quality of cutting,
- precise regulation of the radial runout directly on the machine shaft,
- possibility of changing the tool without removing the holder from the spindle.

DCON WS	DCON MS	BD	OAL	THUB	LSC WS	DBC	THID	INDICATION
60	35	125	84	54	12	100	4 x M8	URRI-35060
80	40	125	90	60	16	100	4 x M8	URRI-40080

**HOLDER FOR SAW****Description:**

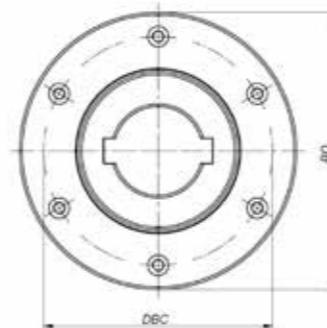
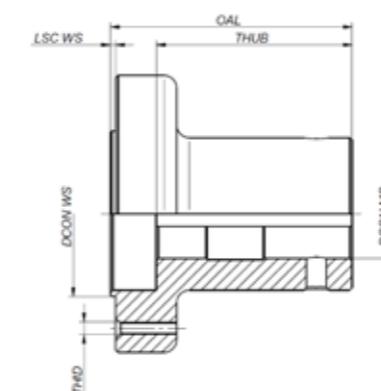
Mounting Flanges - scoring saw blades.

**Application:**

Mounting the saws on the spindle shaft with a prismatic key.

**Information:**

- simple construction
- secure mounting
- possibility of changing the tool without removing the holder from the spindle.



DCON WS	DCON MS	BD	OAL	THUB	LSC WS	DBC	THID	INDICATION
50	30	82	50	30	2,5	72	4xM5	UNPI-3050050
55	30	115	32	16	4	90	6xM5	UNPI-3055032
60	30	90	75,7	52,5	3	75	6xM6	UNPI-3060075
65	30	100	68	50	2	90	6xM5	UNPI-3065068
65	30	109	95	77	2	90	6xM5	UNPI-3065095
65	30	109	99	77	6	90	6xM5	UNPI-3065099
50	35	82	50	30	2,5	72	4xM5	UNPI-3550050
65	35	115	32	16	4	90	4xM5	UNPI-3565032
65	35	109	95	77	2	90	6xM5	UNPI-3565095
80	35	110	49	28	3	100	5xM8	UNPI-3580049
80	40	125	84	54	3	100	4xM6	UNPI-4080084



TYPE	DCON WS	DCON MS	INDICATION
B	10	12	UW01-58021012
B	10	14	UW01-58021014

The holder is intended for machines of the following type:  
**MASTERWOOD I FELDER**



TYP	DCON WS	DCON MS	INDICATION
C	10	M8	UW02-58021014P UW02-58031008L
C	10	M10	UW02-58031010P UW02-58031010L

The holder is intended for machines of the following type:  
**BIESSE** (older models), **MASTERWOOD** (Zangheri&Boschetti), **MORBIDELLI**, **TORWEGGE**, **VITAP** (new models), **WEKEE**, **NOTTMAYER** (new models)



TYP	DCON WS	DCON MS	INDICATION
D	10	M8	UW03-58041008P UW03-58041008L
D	10	M10	UW03-58041010P UW03-58041010L

The holder is intended for machines of the following type:  
**ALBERTI** (older models), **BALESTRINI**, **BILEK**, **BUSELLATO** (older models), **SCHLEICHER**, **VITAP** (older models), **GOMAD**



TYP	DCON WS	DCON MS	INDICATION
E	10	15	UW04-58051000

The holder is intended for machines of the following type:  
**BIESSE** with quick change of drill bits



TYP	DCON WS	DCON MS	INDICATION
F	10	20	UW05-58061000

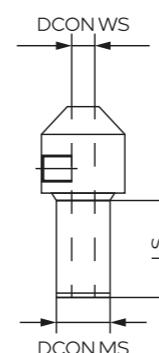
The holder is intended for machines of the following type:  
**MORBIDELLI**



TYP	DCON WS	DCON MS	INDICATION
H	10	15	UW06-58051000

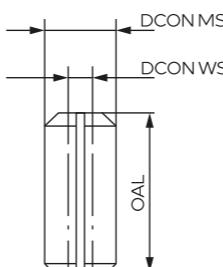
The holder is intended for machines of the following type:  
**WEEKE**

## Accessories



### > Bushing for a wool-carbide twisted drill

DC	OAL	LS	INDICATION
2	38	23	AUWI-4043001
2,5	38	23	AUWI-4043003
3	38	23	AUWI-4043005
3,5	38	23	AUWI-4043009
4	38	23	AUWI-4043011
5	38	23	AUWI-4043013



### > Holder for a wool-carbide twisted drill

DC	OAL	LS	INDICATION
2	23	23	AUW2-4044001
2,5	23	23	AUW2-4044003
3	23	23	AUW2-4044005
3,5	23	23	AUW2-4044009
4	23	23	AUW2-4044011
5	23	23	AUW2-4044013

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TPP3	Shank cutter with negative spiral for medium to high feed *PRO.	62
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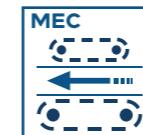
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> Mechanical feed



> Polycrystalline diamond



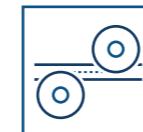
> Tungsten carbide



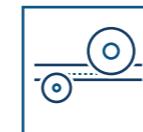
> Tungsten carbide/ Coated tungsten carbide



> CNC Machinery



> System operation shredder/shredder



> System operation shredder/undercutter



> Low noise



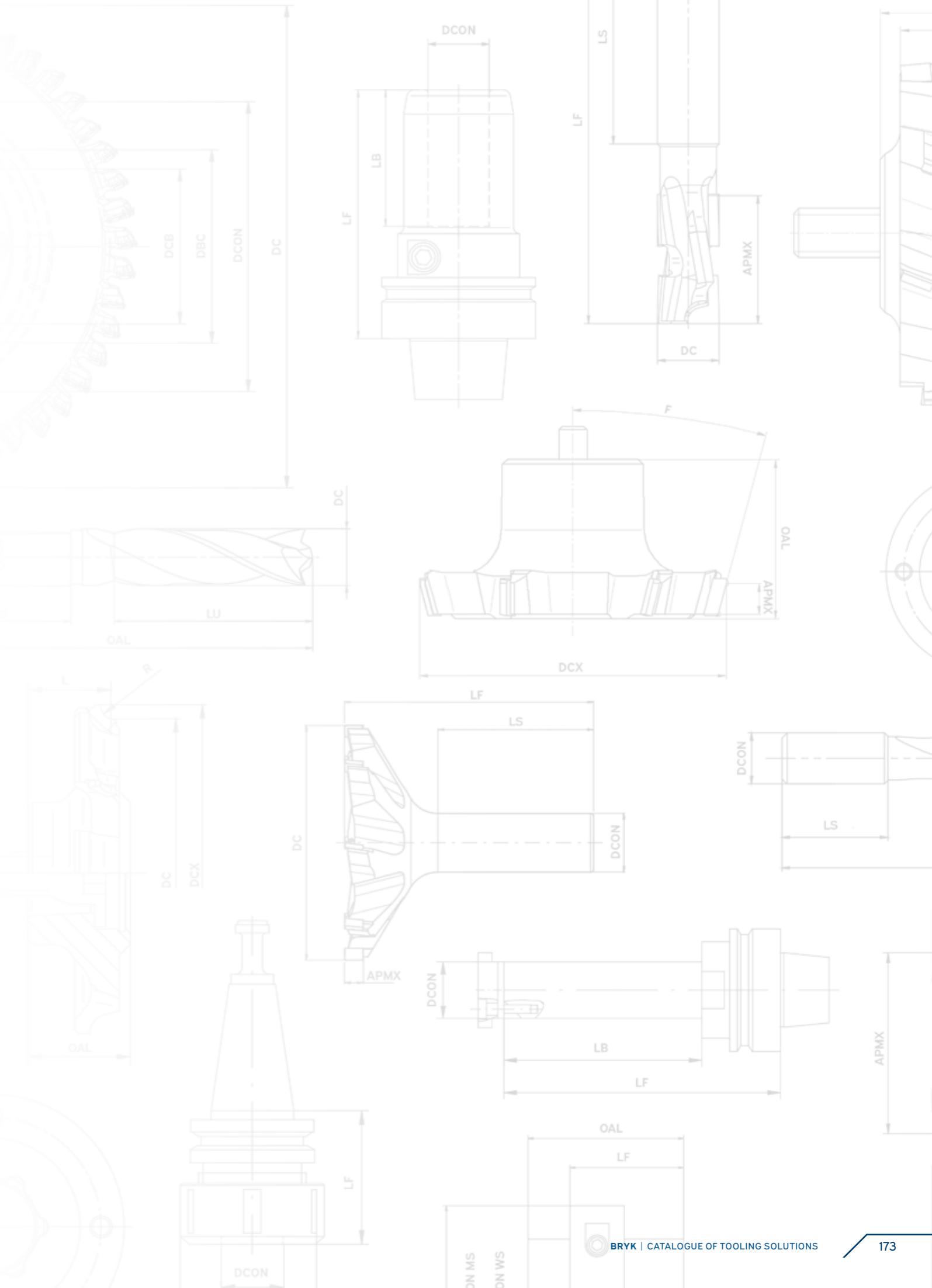
> Drilling through holes



> Drilling blind holes

# EXPLANATION OF ABBREVIATIONS

SKRÓT	DESCRIPTION
APMX	Depth of cut maximum
B	Shank width
BD	Body diameter
CSI	Precision collets type
CW	Cutting width
D	Cutting diameter
D	Shank diameter
DC	Cutting diameter
DBC	Diameter bolt circle
DCB	Connection bore diameter
DCON	Connection diameter
DCON WS	Contact surface diameter (workpiece side)
DCON MS	Contact surface diameter (machine side)
DCX	Cutting diameter maximum
DIAG	Diagram
ER	Precision collets type
EOC	Precision collets type
F	Chamfer
H	Shank height
HDP	Height DP
L	Cutting edge length
LF	Functional length
LU	Usable length (max. recommended)
LS	Shank length
LSC WS	Clamping length
M	Inside diameter thread
MO	Type connection
OAL	Overall length
R	Radius
R/F	Radius/Chamfer
T	Thickness
THID	Thread diameter
THUB	Hub thickness
W	Width
ZEFP	Peripheral effective cutting edge count (ZEFP)



## ABOUT US



The BRYK company was founded in 2000 by Witold Bryk, it's the company that is based on 100% Polish capital. Thanks to a comprehensive approach to tools development dedicated to the processing of wood, wood-based materials and metal, which consists of the entire process from design, through technology development, to production, we successfully compete with global industry giants. What sets us apart is an innovative approach and creative thinking that makes our solutions unique around the world.

For our clients, we are looking for optimization of production processes, and the tools we create are only a means to achieve this goal. We constantly carry out R&D projects and conduct investments that allow us to gain new markets and new customers.

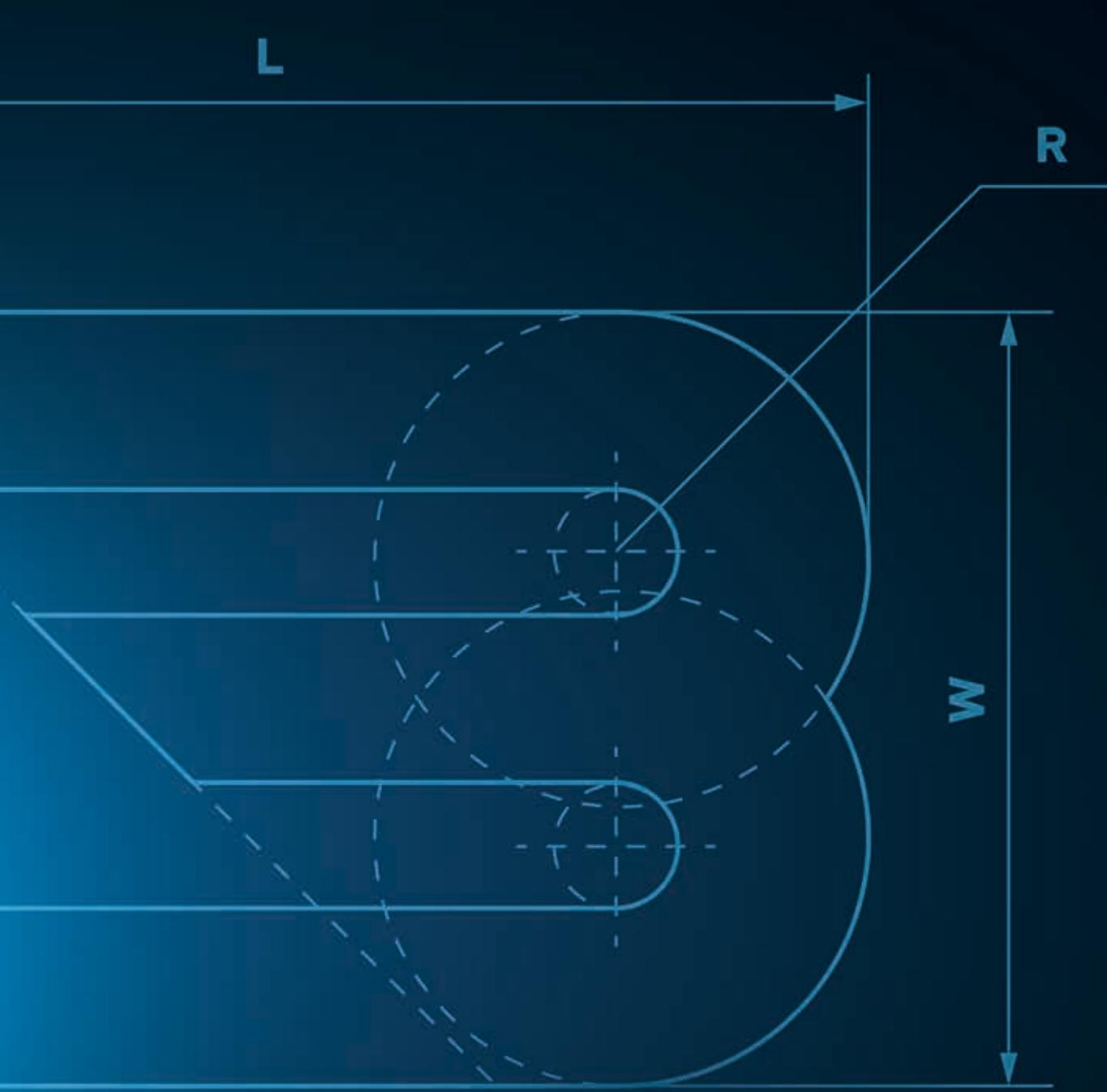
### Our offer

- Full range of tools (e.g. milling cutters, drills, formatter heads, special tools and multifunctional)
- Restoration and sharpening services
- Design and construction of customised tools
- Professional support for designers, programmers and technologists, including service at the customer's production site
- Customer advisors at your disposal
- The testing laboratory



We sell our products both on the Polish market and abroad.





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