

PROFESSIONAL TOOLS

CATALOGUE

edition 3



PROFESSIONAL TOOLS
PRODUCTION | SALES | SERVICE





INTERNET APPLICATION

the new technology for tool and machine management

TOOLCLOUD 4.0



Simplicity:

Clear and transparent interface that even novice users can handle.



Mobility:

Access to the program is possible from any device with a web browser without the need to install additional software on your computer or phone.



Flexibility:

The program can be configured, to best reflect the structure in your company.



Complexity:

One-stop place, where you can check our stock, what's happening in service, but also quickly place an order with delivery.



Frugality:

Bright and clear overview on tools stocks and upcoming services will help you to avoid unplanned downtime.



Time saving:

DPM reader will help you locate and manage tools fast. Tool release to employees or shipping to service will take just a moment.



ToolCloud

has been developed according to INDUSTRY 4.0
Easy to locate resources during the production process.



DataMatrix code

Unique DataMatrix code allows collect information about the tool and manage them effectively.

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PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS
OR COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

ITA TOOLS

Company details

ITA TOOLS Company is a Polish manufacturer of professional cutting tools located in Cracow with Production and Service Center in Mielec, Special Industrial Zone and warehouse in Wieliczka.

We offer a wide range of tools for woodworking industry, furniture production and processing composite materials.

PRODUCTS

Product range includes:

- Solid carbide spiral bits
- PCD router bits and cutters
- Industrial drills
- Saw blades
- Cutter heads and pre milling cutter heads
- Interchangeable and planer knives
- CNC chuck and accessories
- Other customized tools

WAREHOUSE

Why better than other?

- Industrial tool available on stock!
- B2B system for collect orders 24/7h
- Fast delivery thanks to localization in the middle of Europe
- Customized production
- Experienced staff ready to met your specific needs

PRODUCTION & SERVICE CENTER

Full range tools services!

- Sharpening, regeneration, coating
- Modern CNC machine park witch machines from: WALTER®, VOLLMER®, ANCA®, DMG MORI®, HAIMER®
- Certified staff work 24/7 for 3 shifts, 7 days a week
- Perfect service at the highest level appreciated by customers

Experience & Knowledge



Professional Tool Service 24/7



Availability & Quality



World Wide Export



Innovation: Laser Ablation



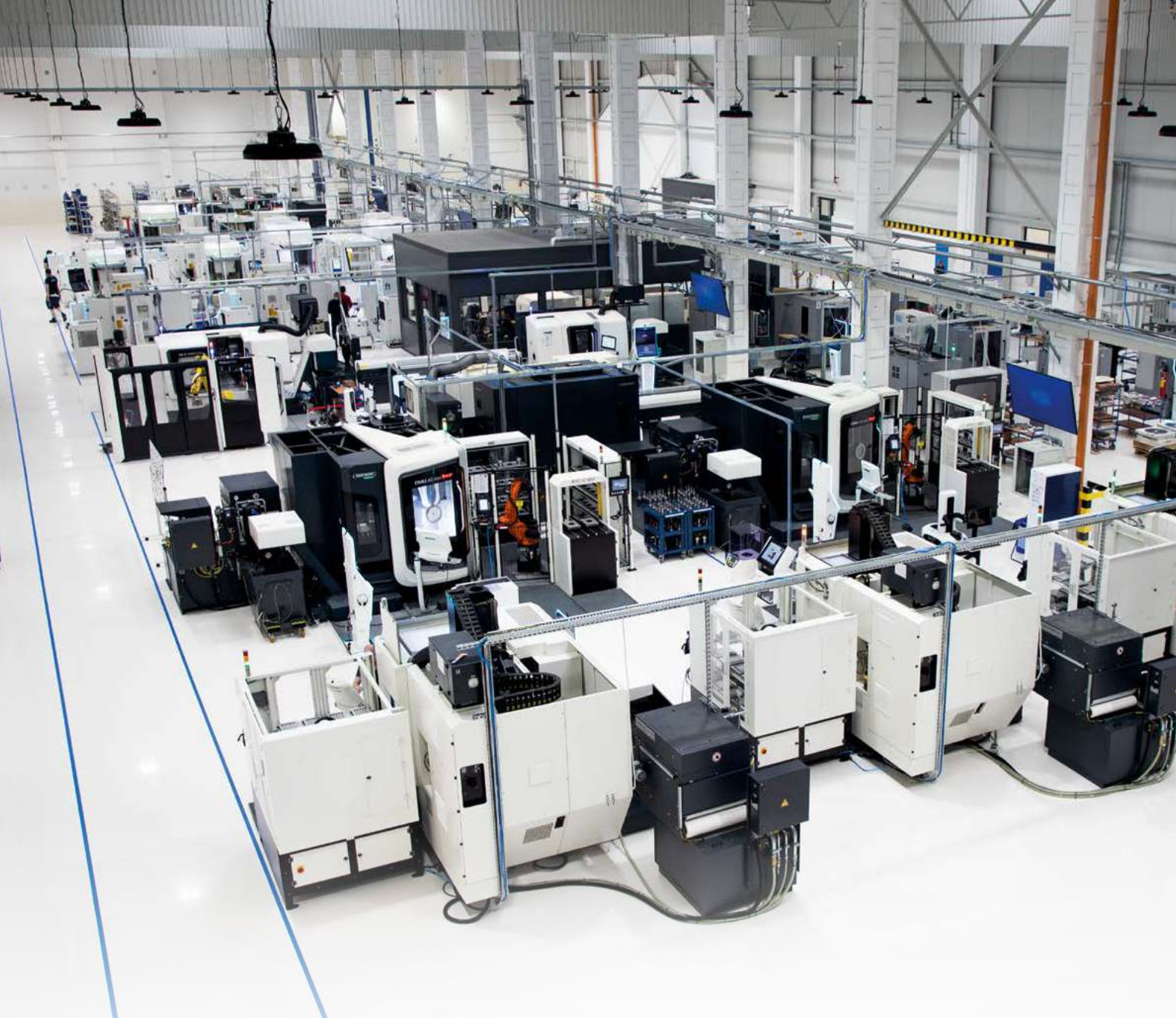
Here you can find video presentation about our company.



Our company has obtained ISO certificate 1586/10/2020/ZSZ/R meeting the following standards:

PN-EN ISO 9001:2015 – Quality Management System
 PN-EN ISO 14001:2015 – Environmental Management System
 PN-EN ISO 45001:2018-06 – Management BHP System







PRODUCTION AND SERVICE

PCD and HM Tools

ITA TOOLS company is supplier of professional industrial cutting tools and solutions for business. Our production center is one of the biggest and modern machinery park's in Central Europe.

Our products are distinguished by high tolerance and best precision. We are proud of our production center and tools, therefore we invite you for an individual visit or live video presentation.

Our company is pioneer in technology of PCD sharpening by laser ablation method. Laser ablation works by focusing a laser onto a substrate to a remove material that is on it's surface. Laser ablation is a much more efficient, reliable and cost-effective method.

Laser ablation has many benefits over more traditional methods of Sharpening processes, such as:

- The sharpening area doesn't warm up
- Ultimate precision especially for DIA profile cutting edges, thanks to the laser technology we are able to sharp any angle as well as chip breakers
- After laser ablation the cutting blade is more precise
- The laser cuts PCD and binder concurrent
- Simple processing of coarse PCD
- Expanding tools life and not harmful for ecology



Braze-welding procedure certified.
Testing standard: **PN-EN ISO 13585:2012**

15 000 m²

**Production Centre in Mielec, Poland:
Brand new facility of tool manufacturing
and sharpening service center.**

Brand new and advanced CNC machines from DMG MORI®, WALTER®, VOLLMER® and ANCA® in combination with professional team of operators and engineers create the NEW quality level of products and services.

WE TAKE CARE OF YOUR TOOLS

We are still working 24/h, 3 shifts – 7 days in week for you!

- Each tool is registered in database on each step of services
- Ultrasonic cleaning or micro glass grain sandblasting depend of tool and dirt provide best quality
- Measurements before and after services on WALTER® ADVANCE, WALTER® HELISET and ZOLLER®

Measurements after sharpening with an accuracy of 0.01 mm – indicating diameter before and after sharpening.

- Top quality of induction brazing by CEIA® machines
- Sharpening PCD technology provided by modern CNC machines DMG MORI®, WALTER® and VOLLMER®
- High grinding quality thanks to WALTER® machines
- Dynamic balancing with a tolerance of G2.5 thanks to HAIMER® machines

Unique on European scale Laser ablation sharpening technology provided by DMG MORI®.

We are pioneers in sharpening tools using the laser ablation method in the furniture industry.

LASER ABLATION

The biggest advantages over other traditional sharpening methods.



Maintained precision even with the most complex profiles, e.g. with tools for floor panels.

Fully automatic machines speed up the sharpening process.



INNOVATION

THE HIGHEST PRECISION

AUTOMATION

INCREASED TOOL LIFE

A more precise surface of the blade translates into better machining quality and less frequently required tool service.



WHAT IS ABLATION?

In the ablation process, we use laser beams to remove nicks formed on the blade. Thanks to that we are obtaining unprecedented smoothness of the blade in a short time. It allows for accomplishing, even better-finished surfaces of the processed materials.

- ✓ PCD is processed at the same time as well as the binder.
- ✓ Tool sharpening is possible with chip breaker.
- ✓ Perfect blade finish.
- ✓ The minimum radius is 15 µm.
- ✓ Sharpening Entire PCD Tool Sets.
- ✓ Longer tool life.

We sharpen tools with a diameter of **up to 320 mm**, height **up to 350 mm**, weight **up to 25 kg**.

WIDE RANGE OF SERVICES

WE SHARPEN EVERY ANGLE

Thanks to the laser, we are able to sharpen the angle from 15 microns.

OPTIMIZATION

The ability to sharpen the entire set of tools in one cycle, without the need to disassemble the tool, while maintaining an even diameter of the blades.

QUALITY CONTROL

Thanks to the built-in camera, the grade of the tools is checked before each sharpening, which allows you to determine the minimum amount of material that should be collected in order to sharpen the tool as well as possible.



B2B SALES SYSTEM

Your personal account with order center & useful product information 24/7



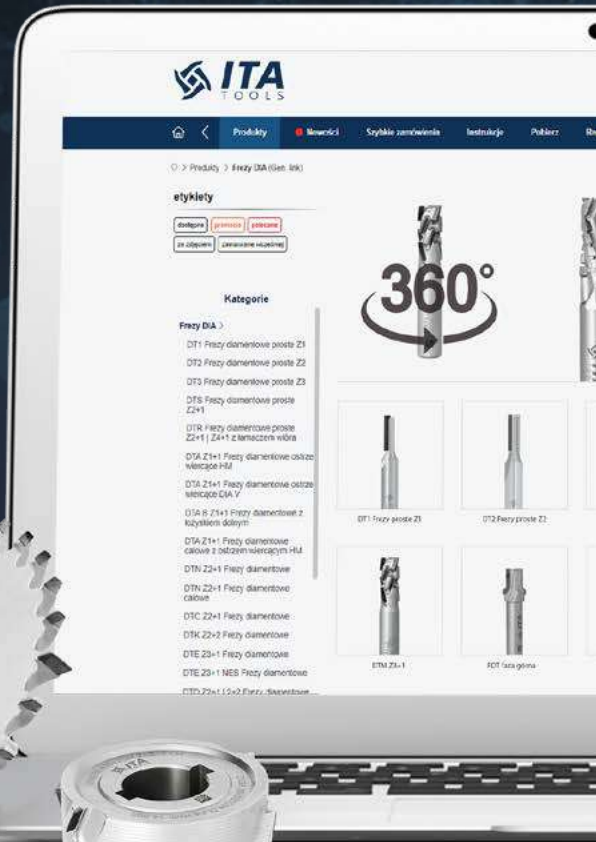
INTUITIVE PROCESS OF PRODUCT ORDERING

Simple way for placing orders independently.



ACCESS TO INVOICES AND PAYMENTS

Download invoices directly from your account.



SCAN THE CODE AND FILL OUT THE FORM



Further information about the B2B sales system can be found here:

www.b2b-itatools.pl



SIMPLE PRODUCT SEARCHING SYSTEM

Wide range of filters enabling the selection of appropriate tools.



SEARCH PRODUCT BY THE TYPE OF MACHINE

Filters enabling the selection of both tools for machines as well as blades for power tools.



ORDER STATUS MONITORING

The ability to check order status on your own.



ACCESS TO STOCK

Access to actual product stock 24/7.



INTUITIVE AND USER FRIENDLY SYSTEM

System based on the most common customer requirements and is constantly being developed.



ACCESS TO THE ORDER HISTORY AND INVOICES

Full history track of your offers, orders, invoices in one place.

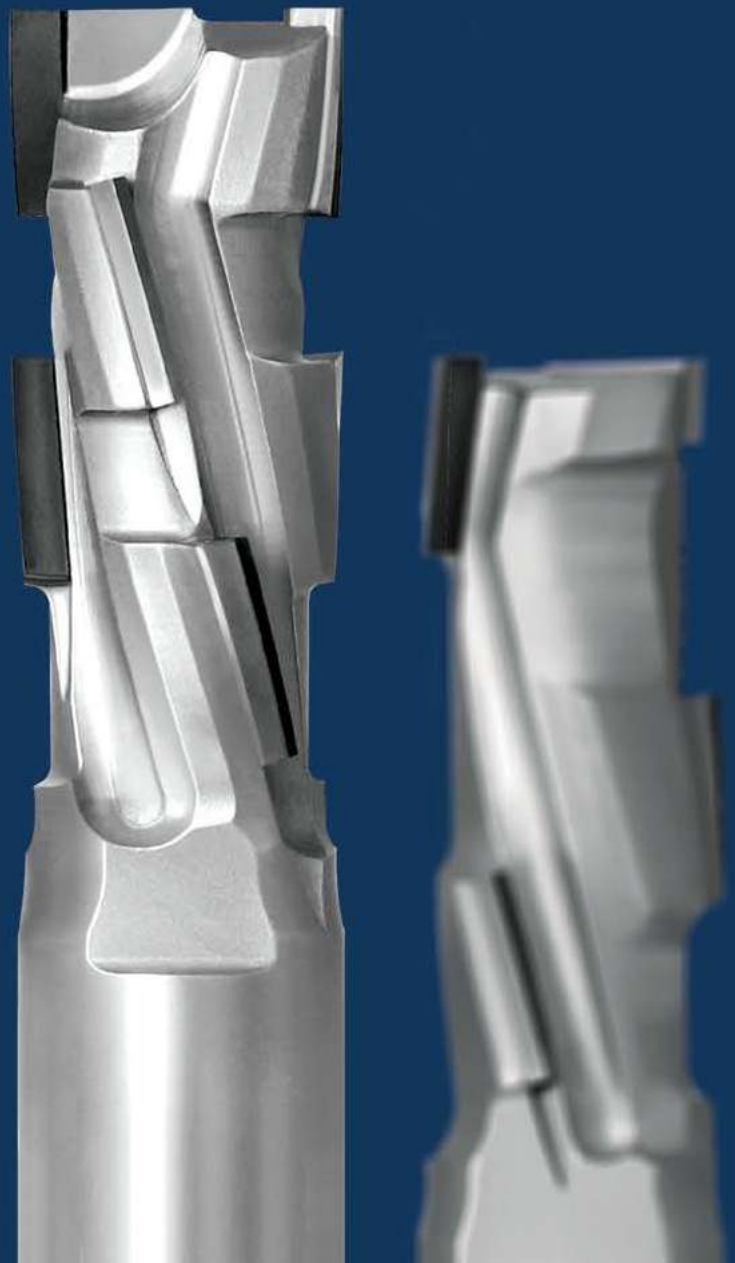


ACCESS TO ACTUAL PROMOTIONS

Instant information about all current promotions for B2B users.



CNC PROCESSING



Chapter

Diamond and HM Tools



DT1 series
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DTB series
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DTE series
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DTE series
TURBO
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DTF series
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DTC, DTJ
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FWR series
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PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

Diamond Router Bits Z1

DT1



Z1

RH



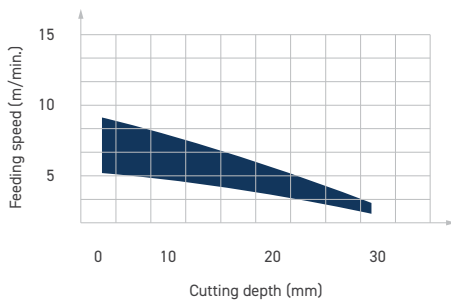
Technical details:

- Single PCD tip
- Body made from tungsten carbide hardness of 93,8 HRA
- Can be resharpened:
 - H2,5 - (2-3 sharpening operations),
 - H3 - (3-4 sharpening operations)

Application:

To be used on all CNC routers for grooving, jointing and sizing of solid wood, wood-based panels and composites.

| D mm | I mm | L mm | S mm | Z | α | PCD H mm | BODY | ARTICLE |
|------|------|------|------|---|------|----------|------|-------------------|
| 4 | 12 | 70 | 6 | 1 | 0° | 2,5 | HM | DT1.04.012.06.0MR |
| 5 | 10 | 60 | 6 | 1 | Neg. | 3,0 | HM | DT1.05.010.06.0MR |
| 5 | 20 | 70 | 6 | 1 | Neg. | 3,0 | HM | DT1.05.020.06.0MR |
| 6 | 12 | 60 | 6 | 1 | Neg. | 3,0 | HM | DT1.06.012.06.0MR |
| 6 | 12 | 70 | 8 | 1 | Neg. | 3,0 | HM | DT1.06.012.08.0MR |
| 6 | 12 | 70 | 10 | 1 | Neg. | 3,0 | HM | DT1.06.012.10.0MR |
| 6 | 20 | 70 | 6 | 1 | 0° | 3,0 | HM | DT1.06.020.06.0MR |
| 6 | 22 | 75 | 12 | 1 | Neg. | 3,0 | HM | DT1.06.022.12.0MR |
| 8 | 15 | 70 | 8 | 1 | Neg. | 3,0 | HM | DT1.08.015.08.0MR |
| 8 | 20 | 70 | 8 | 1 | Neg. | 3,0 | HM | DT1.08.020.08.0MR |
| 8 | 23 | 75 | 12 | 1 | 0° | 3,0 | HM | DT1.08.023.12.0MR |
| 10 | 15 | 70 | 10 | 1 | Neg. | 3,0 | HM | DT1.10.015.10.0MR |
| 12 | 20 | 73 | 12 | 1 | Neg. | 3,0 | HM | DT1.12.020.12.0MR |



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

Sizes in inches:

| D inch | I inch | L inch | S inch | Z | α | BODY | ARTICLE |
|--------|--------|---------|--------|---|------|------|-------------------|
| 1/4 | 1/2 | 2 11/16 | 1/4 | 1 | Neg. | HM | DT1.06.012.06.5MR |
| 1/2 | 1 | 2 11/16 | 1/2 | 1 | Neg. | HM | DT1.12.025.12.5MR |
| 1/2 | 1 1/4 | 2 11/16 | 1/2 | 1 | Neg. | HM | DT1.12.031.12.5MR |
| 5/8 | 1 | 2 11/16 | 1/2 | 1 | Neg. | HM | DT1.15.025.15.5MR |
| 3/4 | 1 | 2 11/16 | 1/2 | 1 | Neg. | HM | DT1.19.025.19.5MR |

DT2



Technical details:

- Full double PCD tips
- Body made from tungsten carbide hardness of 93,8 HRA or stainless steel
- Can be resharpened:
 - H2 - (2-3 sharpening operations),
 - H3 - (3-4 sharpening operations)

Application:

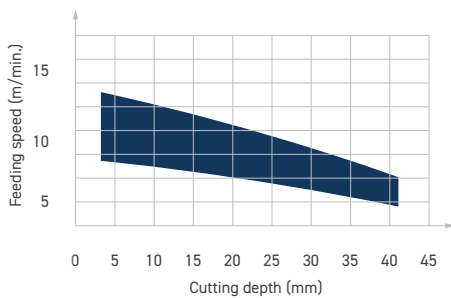
To be used on all CNC routers for grooving, jointing and sizing of solid wood, wood-based panels and composites (HPL, MDF materials).

Advantages:

Perfect chip ejection, excellent finish of the working edge and quiet work.

| D mm | I mm | L mm | S mm | Z | α | PCD H mm | BODY | ARTICLE |
|------|------|------|------|---|-----------|----------|-----------------|--------------------|
| 6 | 10 | 75 | 12 | 2 | Neg. | 3,0 | HM | DT2.06.010.12.0MR |
| 8 | 15 | 70 | 8 | 2 | Neg. | 3,0 | HM | DT2.08.015.08.0MR |
| 8 | 15 | 70 | 10 | 2 | Neg. | 3,0 | HM | DT2.08.015.10.0MR |
| 8 | 20 | 70 | 8 | 2 | Neg. | 3,0 | HM | DT2.08.020.08.0MR |
| 8 | 22 | 75 | 12 | 2 | Neg. | 3,0 | HM | DT2.08.022.12.0MR |
| 10 | 10 | 73 | 12 | 2 | Neg. | 3,0 | HM | DT2.10.010.12.0MR |
| 10 | 15 | 70 | 10 | 2 | Neg. | 3,0 | HM | DT2.10.015.10.0MR |
| 10 | 22 | 70 | 12 | 2 | Neg. | 3,0 | HM | DT2.10.022.12.0MR |
| 10 | 15 | 70 | 8 | 2 | Neg. | 3,0 | HM | DT2.10.015.08.0MR |
| 12 | 15 | 73 | 12 | 2 | Neg. | 3,0 | HM | DT2.12.015.12.0MR |
| 12 | 20 | 73 | 12 | 2 | Neg. | 3,0 | HM | DT2.12.020.12.0MR |
| 14 | 12 | 60 | 8 | 2 | Pos./Neg. | 2,0 | Stainless steel | DT2.14.012.08.0SR* |
| 15 | 12 | 60 | 8 | 2 | Pos./Neg. | 2,0 | Stainless steel | DT2.15.012.08.0SR* |
| 16 | 12 | 63 | 8 | 2 | Pos./Neg. | 2,0 | Stainless steel | DT2.16.012.08.0SR* |

* grooving for LED for power tools



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

Sizes in inches:

| D inch | I inch | L inch | S inch | Z | α | PCD H mm | BODY | ARTICLE |
|--------|--------|--------|--------|---|------|----------|------|-------------------|
| 1/4 | 1/2 | 2 3/4 | 1/4 | 2 | 0° | 2,5 | HM | DT2.06.012.12.5MR |
| 1/4 | 3/4 | 2 3/4 | 1/4 | 2 | 0° | 2,0 | HM | DT2.06.019.06.5MR |
| 3/8 | 1/2 | 2 3/4 | 1/2 | 2 | 0° | 2,5 | HM | DT2.09.012.12.5MR |
| 3/8 | 7/8 | 3 | 3/8 | 2 | 0° | 3,0 | HM | DT2.09.022.09.5MR |
| 3/8 | 1 1/8 | 3 | 3/8 | 2 | Neg. | 3,0 | HM | DT2.09.020.09.5MR |
| 1/2 | 1 | 3 | 1/2 | 2 | Neg. | 3,0 | HM | DT2.12.025.12.5MR |
| 1/2 | 1 9/64 | 3 | 1/2 | 2 | Neg. | 3,0 | HM | DT2.12.028.12.5MR |
| 1/2 | 1 3/8 | 3 1/2 | 1/2 | 2 | Neg. | 3,0 | HM | DT2.12.034.12.5MR |

Diamond Router Bits Z2+1

DTS
positive-negative



Z2+1

RH



Technical details:

- Full double PCD tips, positive - negative
- Body made from tungsten carbide hardness of 93,8 HRA or DENSIMET®
- Can be resharpened:
H2,5 - (2-3 sharpening operations),
H3,5 - (3-4 sharpening operations)
- PCD tip at the bottom to drill

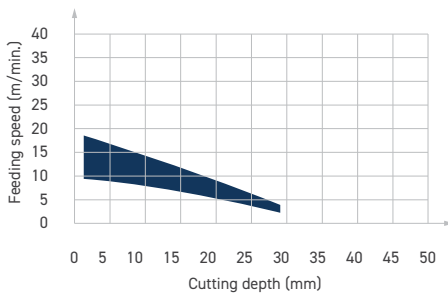
Application:

To be used on all CNC routers for jointing and sizing of solid wood, wood-based panels and composites (HPL, MDF materials)

Advantages:

Perfect chip ejection, excellent finish of the working edge and quiet work.

| D mm | I mm | L mm | S mm | Z | α | PCD H mm | BODY | ARTICLE |
|------|------|------|------|-----|-----------|----------|-----------|-------------------|
| 8 | 15 | 70 | 8 | 2+1 | Pos.-Neg. | 3,5 | HM | DTS.08.015.08.1MR |
| 8 | 15 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.08.015.12.0DR |
| 8 | 20 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.08.020.12.0DR |
| 10 | 15 | 70 | 10 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.10.015.10.0MR |
| 10 | 15 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.10.015.12.0DR |
| 10 | 20 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.10.020.12.0DR |
| 12 | 15 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | HM | DTS.12.015.12.0MR |
| 12 | 15 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.12.015.12.0DR |
| 12 | 20 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | HM | DTS.12.020.12.0MR |
| 12 | 20 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.12.020.12.0DR |
| 12 | 25 | 70 | 12 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.12.025.12.0DR |
| 20 | 25 | 70 | 20 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.20.025.20.0SR |



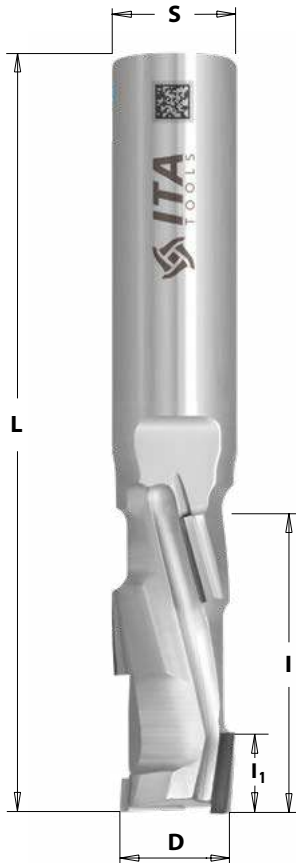
Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

Sizes in inches:

| D inch | I inch | L inch | S inch | Z | α | PCD H mm | BODY | ARTICLE |
|--------|--------|--------|--------|-----|-----------|----------|-----------|-------------------|
| 3/8 | 1 | 2 3/4 | 3/8 | 2+1 | Pos.-Neg. | 2,5 | DENSIMET® | DTS.09.025.09.5MR |
| 1/2 | 1 | 2 3/4 | 1/2 | 2+1 | Pos.-Neg. | 3,5 | DENSIMET® | DTS.12.025.12.5MR |

Diamond Router Bits Z1+1

DTA

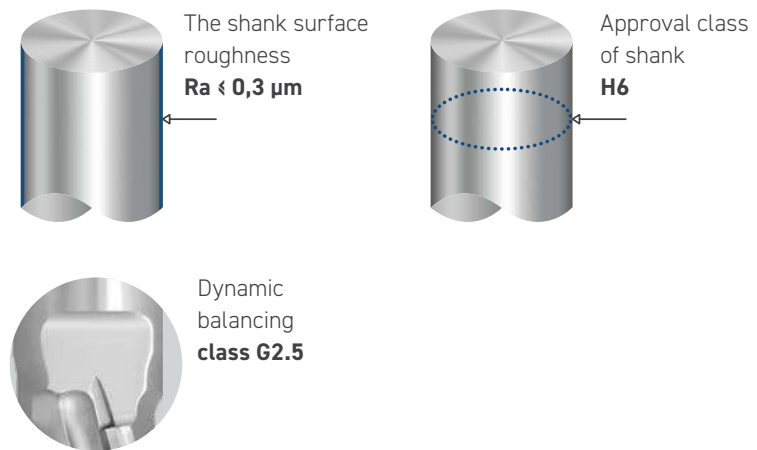


Technical details:

- One full PCD blade spread out on three helix wings
- Body made from stainless steel > 28 HRC or tungsten carbide
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened: H2,5 - (2-3 sharpening operations)

Application:

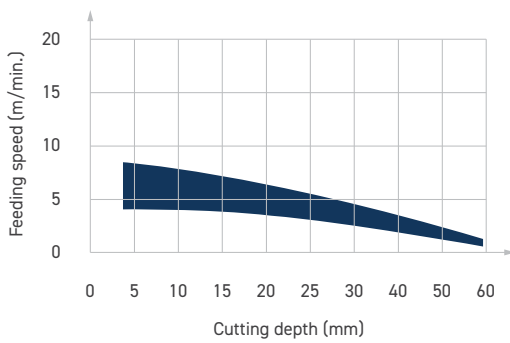
For jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without laminate.



TUNGSTEN CARBIDE body:

| D mm | I mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH | ARTICLE LH |
|------|------|------|------|--------------|----------|-------------------|-------------------|
| 6 | 16 | 80 | 8 | 2 PCD + 1 HM | 2,5 | DTA.06.016.08.0MR | - |
| 8 | 21 | 80 | 8 | 2 PCD + 1 HM | 2,5 | DTA.08.021.08.0MR | - |
| 8 | 21 | 80 | 12 | 2 PCD + 1 HM | 2,5 | DTA.08.021.12.0MR | - |
| 8 | 27 | 80 | 8 | 3 PCD + 1 HM | 2,5 | DTA.08.027.08.0MR | DTA.08.027.08.0ML |
| 8 | 36 | 80 | 8 | 4 PCD + 1 HM | 2,5 | DTA.08.036.08.0MR | DTA.08.036.08.0ML |
| 10 | 27 | 80 | 10 | 3 PCD + 1 HM | 2,5 | DTA.10.027.10.0MR | - |
| 12 | 27 | 80 | 12 | 3 PCD + 1 HM | 2,5 | DTA.12.027.12.0MR | - |

Diamond Router Bits Z1+1



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

STAINLESS STEEL body:

| D mm | I mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|--------------|-------------|-------------------|-------------------|
| 8 | 21 | 69 | 12 | 3 PCD + 1 HM | 1,5 | DTA.08.021.12.0SR | - |
| 10 | 15 | 63 | 12 | 1 PCD + 1 HM | 2,5 | DTA.10.015.12.0SR | - |
| 10 | 21 | 69 | 12 | 3 PCD + 1 HM | 2,5 | DTA.10.021.12.0SR | - |
| 10 | 25 | 70 | 12 | 3 PCD + 1 HM | 2,5 | DTA.10.025.12.0SR | DTA.10.025.12.0SL |
| 10 | 35 | 83 | 12 | 4 PCD + 1 HM | 2,5 | DTA.10.035.12.0SR | DTA.10.035.12.0SL |
| 12 | 21 | 69 | 12 | 3 PCD + 1 HM | 2,5 | DTA.12.021.12.0SR | - |
| 12 | 25 | 76 | 12 | 3 PCD + 1 HM | 2,5 | DTA.12.025.12.0SR | DTA.12.025.12.0SL |
| 12 | 35 | 85 | 12 | 4 PCD + 1 HM | 2,5 | DTA.12.035.12.0SR | DTA.12.035.12.0SL |
| 12 | 45 | 93 | 12 | 5 PCD + 1 HM | 2,5 | DTA.12.045.12.0SR | DTA.12.045.12.0SL |
| 16 | 25 | 85 | 16 | 3 PCD + 1 HM | 2,5 | DTA.16.025.16.0SR | DTA.16.025.16.0SL |
| 16 | 35 | 95 | 16 | 4 PCD + 1 HM | 2,5 | DTA.16.035.16.0SR | DTA.16.035.16.0SL |
| 16 | 45 | 105 | 16 | 5 PCD + 1 HM | 2,5 | DTA.16.045.16.0SR | DTA.16.045.16.0SL |
| 16 | 55 | 114 | 16 | 6 PCD + 1 HM | 2,5 | DTA.16.055.16.0SR | DTA.16.055.16.0SL |
| 18 | 25 | 87 | 20 | 3 PCD + 1 HM | 2,5 | DTA.18.025.20.0SR | DTA.18.025.20.0SL |
| 18 | 35 | 97 | 20 | 4 PCD + 1 HM | 2,5 | DTA.18.035.20.0SR | DTA.18.035.20.0SL |
| 18 | 45 | 107 | 20 | 5 PCD + 1 HM | 2,5 | DTA.18.045.20.0SR | DTA.18.045.20.0SL |
| 18 | 45 | 107 | 25 | 5 PCD + 1 HM | 2,5 | DTA.18.045.25.0SR | DTA.18.045.25.0SL |
| 20 | 25 | 85 | 20 | 3 PCD + 1 HM | 2,5 | DTA.20.025.20.0SR | DTA.20.025.20.0SL |
| 20 | 35 | 95 | 20 | 4 PCD + 1 HM | 2,5 | DTA.20.035.20.0SR | DTA.20.035.20.0SL |
| 20 | 45 | 104 | 20 | 5 PCD + 1 HM | 2,5 | DTA.20.045.20.0SR | DTA.20.045.20.0SL |
| 20 | 55 | 113 | 20 | 6 PCD + 1 HM | 2,5 | DTA.20.055.20.0SR | DTA.20.055.20.0SL |
| 20 | 65 | 129 | 20 | 7 PCD + 1 HM | 2,5 | DTA.20.065.20.0SR | DTA.20.065.20.0SL |
| 20 | 72 | 129 | 20 | 8 PCD + 1 HM | 2,5 | DTA.20.072.20.0SR | - |
| 20 | 80 | 137 | 20 | 9 PCD + 1 HM | 2,5 | DTA.20.080.20.0SR | DTA.20.080.20.0SL |

All sizes available with shank 12, 16, 18, 20, 25.

Diamond Router Bits Z1+1

Sizes in inches:

| D inch | I inch | S inch | TIPS | PCD H mm | ARTICLE RH |
|-----------|-----------|-----------|--------------|-------------|-------------------|
| 3/8 | 1 1/2 | 3/8 | 4 PCD + 1 HM | 2,5 | DTA.09.038.09.5SR |
| 1/2 | 1 | 1/2 | 3 PCD + 1 HM | 2,5 | DTA.12.025.12.5SR |
| 1/2 | 3 1/8 | 1/2 | 4 PCD + 1 HM | 2,5 | DTA.12.028.12.5SR |
| 1/2 | 1 3/8 | 1/2 | 4 PCD + 1 HM | 2,5 | DTA.12.035.12.5SR |
| 1/2 | 1 1/2 | 1/2 | 4 PCD + 1 HM | 2,5 | DTA.12.038.12.5SR |
| 1/2 | 1 3/4 | 1/2 | 5 PCD + 1 HM | 2,5 | DTA.12.045.12.5SR |
| 5/8 | 1 3/8 | 5/8 | 4 PCD + 1 HM | 2,5 | DTA.15.035.12.5SR |
| 5/8 | 1 3/4 | 5/8 | 5 PCD + 1 HM | 2,5 | DTA.15.045.12.5SR |
| 3/4 | 1 | 3/4 | 3 PCD + 1 HM | 2,5 | DTA.19.025.12.5SR |
| 3/4 | 1 3/4 | 3/4 | 5 PCD + 1 HM | 2,5 | DTA.19.045.12.5SR |
| 3/4 | 2 | 3/4 | 6 PCD + 1 HM | 2,5 | DTA.19.050.19.5SR |



BSR with bearing:

| D mm | I mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH |
|---------|---------|---------|---------|-------|-------------|-------------------|
| 12,7 | 27 | 81,5 | 8 | 3 PCD | 2,5 | DTA.12.027.08.BSR |
| 12,7 | 27 | 81,5 | 12 | 3 PCD | 2,5 | DTA.12.027.12.BSR |
| 12,7 | 36 | 91,5 | 12 | 4 PCD | 2,5 | DTA.12.036.12.BSR |
| 12,7 | 44 | 99,5 | 12 | 5 PCD | 2,5 | DTA.12.044.12.BSR |



VSR with steel body and PCD angle 45°:

| D mm | I mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH |
|---------|---------|---------|---------|---------|-------------|-------------------|
| 10 | 27 | 80 | 12 | 3+1 PCD | 2,5 | DTA.10.027.12.VSR |
| 12 | 27 | 82 | 12 | 3+1 PCD | 2,5 | DTA.12.027.12.VSR |
| 12 | 36 | 91 | 12 | 4+1 PCD | 2,5 | DTA.12.036.12.VSR |
| 16 | 36 | 102 | 16 | 4+1 PCD | 2,5 | DTA.16.036.16.VSR |
| 16 | 45 | 111 | 16 | 5+1 PCD | 2,5 | DTA.16.045.16.VSR |

Diamond Router Bits Z1+1 PRO

DTB



Technical details:

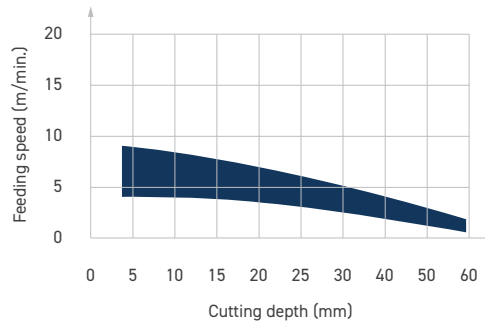
- One full PCD blade spread out on three helix wings
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened: H2,5 - (2-3 sharpening operations)

Application:

For jointing, rabbeting, grooving, copying and dividing cuts of materials such as: laminated MDF, chipboard, plywood, hard wood.

Advantages:

- Excellent for materials such as: laminated MDF, chipboard, plywood, hard wood
- Special body construction with more PCD teeth
- Additional space for chip ejection
- Excellent quality-price ratio



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

| D mm | I mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH |
|---------|---------|---------|---------|--------------|-------------|-------------------|
| 12 | 25 | 69 | 12 | 4 PCD + 1 HM | 2,5 | DTB.12.025.12.SSR |
| 12 | 35 | 79 | 12 | 5 PCD + 1 HM | 2,5 | DTB.12.035.12.SSR |
| 12 | 45 | 93 | 12 | 6 PCD + 1 HM | 2,5 | DTB.12.045.12.SSR |
| 16 | 25 | 85 | 16 | 4 PCD + 1 HM | 2,5 | DTB.16.025.16.SSR |
| 16 | 35 | 95 | 16 | 5 PCD + 1 HM | 2,5 | DTB.16.035.16.SSR |
| 16 | 43 | 105 | 16 | 6 PCD + 1 HM | 2,5 | DTB.16.045.16.SSR |
| 16 | 55 | 114 | 16 | 7 PCD + 1 HM | 2,5 | DTB.16.055.16.SSR |
| 20 | 25 | 85 | 20 | 4 PCD + 1 HM | 2,5 | DTB.20.025.20.SSR |
| 20 | 35 | 95 | 20 | 5 PCD + 1 HM | 2,5 | DTB.20.035.20.SSR |
| 20 | 45 | 104 | 20 | 6 PCD + 1 HM | 2,5 | DTB.20.045.20.SSR |
| 20 | 52 | 113 | 20 | 7 PCD + 1 HM | 2,5 | DTB.20.055.20.SSR |

DTN



Technical details:

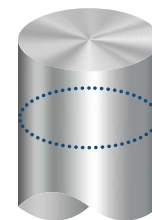
- Two full PCD blades spread out on four helix wings
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened: H2,5 - (2-3 sharpening operations)

Application:

For nesting, jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without laminate.



The shank surface roughness
Ra $\leq 0,3 \mu\text{m}$



Approval class of shank
H6

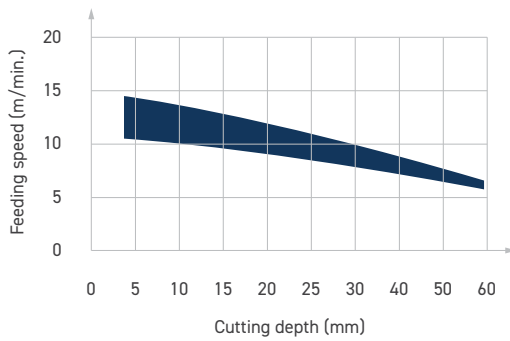


Dynamic balancing
class G2.5

| D mm | I mm | I ₁ mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH | ARTICLE LH |
|---------|---------|----------------------|---------|---------|--------------|-------------|-------------------|-------------------|
| 12 | 25 | 9,5 / 9,5 | 78 | 12 | 6 PCD + 1 HM | 2,5 | DTN.12.025.12.0SR | DTN.12.025.12.0SL |
| 12 | 25 | 9,5 / 9,5 | 87 | 16 | 6 PCD + 1 HM | 2,5 | DTN.12.025.16.0SR | DTN.12.025.16.0SL |
| 12 | 25 | 9,5 / 9,5 | 89 | 20 | 6 PCD + 1 HM | 2,5 | DTN.12.025.20.0SR | DTN.12.025.20.0SL |
| 12 | 35 | 9,5 / 9,5 | 97 | 12 | 8 PCD + 1 HM | 2,5 | DTN.12.035.12.0SR | DTN.12.035.12.0SL |
| 12 | 35 | 9,5 / 9,5 | 99 | 20 | 8 PCD + 1 HM | 2,5 | DTN.12.035.20.0SR | DTN.12.035.20.0SL |
| 16 | 25 | 9,5 / 9,5 | 87 | 16 | 6 PCD + 1 HM | 2,5 | DTN.16.025.16.0SR | DTN.16.025.16.0SL |
| 16 | 25 | 9,5 / 9,5 | 87 | 20 | 6 PCD + 1 HM | 2,5 | DTN.16.025.20.0SR | DTN.16.025.20.0SL |
| 16 | 35 | 10 / 10,5 | 96 | 16 | 8 PCD + 1 HM | 2,5 | DTN.16.035.16.0SR | DTN.16.035.16.0SL |
| 16 | 35 | 10,5 / 10,5 | 97 | 20 | 8 PCD + 1 HM | 2,5 | DTN.16.035.20.0SR | DTN.16.035.20.0SL |

Diamond Router Bits Z2+2

| D mm | I mm | I ₁ mm | L mm | S mm | Z | PCD H mm | ARTICLE RH | ARTICLE LH |
|---------|---------|----------------------|---------|---------|---------------|-------------|-------------------|-------------------|
| 16 | 45 | 10,5 | 104 | 16 | 10 PCD + 1 HM | 2,5 | DTN.16.045.16.0SR | DTN.16.045.16.0SL |
| 16 | 45 | 10,5 | 104 | 20 | 10 PCD + 1 HM | 2,5 | DTN.16.045.20.0SR | DTN.16.045.20.0SL |
| 16 | 55 | 10,5 | 114 | 16 | 12 PCD + 1 HM | 2,5 | DTN.16.055.16.0SR | DTN.16.055.16.0SL |
| 18 | 25 | 9 | 84 | 20 | 6 PCD + 1 HM | 2,5 | DTN.18.025.20.0SR | DTN.18.025.20.0SL |
| 18 | 35 | 10 | 97 | 20 | 8 PCD + 1 HM | 2,5 | DTN.18.035.20.0SR | DTN.18.035.20.0SL |
| 20 | 25 | 10 | 85 | 20 | 6 PCD + 1 HM | 2,5 | DTN.20.025.20.0SR | DTN.20.025.20.0SL |
| 20 | 35 | 10 | 97 | 20 | 8 PCD + 1 HM | 2,5 | DTN.20.035.20.0SR | DTN.20.035.20.0SL |
| 20 | 45 | 10 | 104 | 20 | 10 PCD + 1 HM | 2,5 | DTN.20.045.20.0SR | DTN.20.045.20.0SL |
| 20 | 55 | 10 | 113 | 20 | 12 PCD + 1 HM | 2,5 | DTN.20.055.20.0SR | DTN.20.055.20.0SL |
| 20 | 65 | 10 | 129 | 20 | 14 PCD + 1 HM | 2,5 | DTN.20.065.20.0SR | - |
| 25 | 25 | 9 | 90 | 25 | 6 PCD + 1 HM | 2,5 | DTN.25.025.25.0SR | DTN.25.025.25.0SL |



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

Sizes in inches:

| D inch | I inch | I ₁ mm | S inch | Z | PCD H mm | ARTICLE RH |
|-----------|-----------|----------------------|-----------|-------------|-------------|-------------------|
| 1/2 | 1 | 9,5 | 1/2 | 6PCD + 1HM | 2,5 | DTN.12.025.12.5SR |
| 1/2 | 1 1/8 | 8,5 | 1/2 | 7PCD + 1HM | 2,5 | DTN.12.030.12.5SR |
| 1/2 | 1 3/8 | 9,5 | 1/2 | 8PCD + 1HM | 2,5 | DTN.12.035.12.5SR |
| 1/2 | 1 1/2 | 10,5 | 1/2 | 8PCD + 1HM | 2,5 | DTN.12.038.12.5SR |
| 5/8 | 1 1/8 | 9 | 5/8 | 7PCD + 1HM | 2,5 | DTN.15.030.19.5SR |
| 5/8 | 1 3/8 | 8 | 5/8 | 8PCD + 1HM | 2,5 | DTN.15.035.15.5SR |
| 5/8 | 1 3/4 | 10 | 5/8 | 10PCD + 1HM | 2,5 | DTN.15.045.15.5SR |
| 3,4 | 1 3/8 | 8 | 3,4 | 8PCD + 1HM | 2,5 | DTN.19.035.19.5SR |
| 3,4 | 1 3/4 | 8 | 3,4 | 10PCD + 1HM | 2,5 | DTN.19.045.19.5SR |
| 3,4 | 2 | 7,5 | 3,4 | 16PCD + 1HM | 2,5 | DTN.19.050.19.5SR |

DTL

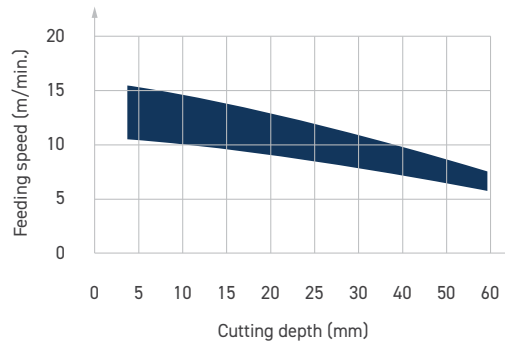


Technical details:

- Two full PCD blades spread out on four helix wings
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra < 0,3 μm
- Can be resharpened: H2,5 - (2-3 sharpening operations)
- Quiet work, better chip rejection

Application:

For nesting, jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without laminate.



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

| D mm | I mm | I ₁ mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH |
|------|------|-------------------|------|------|----------|----------|-------------------|
| 12 | 25 | 10,5 | 70 | 12 | 6+1 PCD | 2,5 | DTL.12.025.12.0SR |
| 12 | 28 | 10,5 | 80 | 12 | 6+1 PCD | 2,5 | DTL.12.028.12.0SR |
| 12 | 35 | 10,5 | 90 | 12 | 8+1 PCD | 2,5 | DTL.12.035.12.0SR |
| 12 | 43 | 10,5 | 105 | 12 | 10+1 PCD | 2,5 | DTL.12.043.12.0SR |
| 16 | 25 | 10 | 70 | 16 | 6+1 PCD | 2,5 | DTL.16.025.16.0SR |
| 16 | 28 | 10 | 80 | 16 | 6+1 PCD | 2,5 | DTL.16.028.16.0SR |
| 16 | 35 | 10 | 90 | 16 | 8+1 PCD | 2,5 | DTL.16.035.16.0SR |
| 16 | 43 | 10 | 105 | 16 | 10+1 PCD | 2,5 | DTL.16.043.16.0SR |
| 18 | 25 | 10 | 85 | 20 | 6+1 PCD | 2,5 | DTL.18.025.20.0SR |
| 18 | 35 | 10 | 90 | 20 | 8+1 PCD | 2,5 | DTL.18.035.20.0SR |
| 18 | 43 | 10 | 105 | 20 | 10+1 PCD | 2,5 | DTL.18.043.20.0SR |
| 18 | 52 | 10 | 115 | 20 | 12+1 PCD | 2,5 | DTL.18.052.20.0SR |
| 20 | 25 | 10 | 85 | 20 | 6+1 PCD | 2,5 | DTL.20.025.20.0SR |
| 20 | 28 | 10 | 80 | 20 | 6+1 PCD | 2,5 | DTL.20.028.20.0SR |
| 20 | 35 | 10 | 90 | 20 | 8+1 PCD | 2,5 | DTL.20.035.20.0SR |
| 20 | 43 | 10 | 105 | 20 | 10+1 PCD | 2,5 | DTL.20.043.20.0SR |
| 20 | 52 | 10 | 115 | 20 | 12+1 PCD | 2,5 | DTL.20.052.20.0SR |

DTE



Technical details:

- Three full PCD blades spread out on three helix wings
- DENSIMET® body
- Can be resharpened: H2,5 - (2-3 sharpening operations)
- Fast feed rate, excellent finish of the working edge and quiet work

Application:

For nesting, jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without veneer, MDF, hardwood, plywood.



The shank surface roughness
Ra < 0,3 μm



Approval class of shank
H6



Dynamic balancing
class G2.5

DENSIMET® body:

| D mm | I mm | I ₁ mm | L mm | S mm | TIPS | PCD H mm | α | ARTICLE RH |
|------|------|-------------------|------|------|----------|----------|---------|-------------------|
| 10 | 22 | 10 | 70 | 12 | 8+1 PCD | 2,5 | Negativ | DTE.10.022.12.0DR |
| 12 | 20 | 10 | 68 | 12 | 7+1 PCD | 2,5 | Negativ | DTE.12.020.12.0DR |
| 12 | 22 | 10 | 70 | 12 | 7+1 PCD | 2,5 | Negativ | DTE.12.022.12.0DR |
| 12 | 22 | 10 | 70 | 12 | 7+1 PCD | 2,5 | Positiv | DTE.12.022.12.2DR |
| 12 | 25 | 10,5 | 75 | 12 | 9+1 PCD | 2,5 | Negativ | DTE.12.025.12.1DR |
| 12 | 27 | 10 | 75 | 12 | 9+1 PCD | 2,5 | Negativ | DTE.12.027.12.0DR |
| 12 | 35 | 10 | 83 | 12 | 11+1 PCD | 2,5 | Negativ | DTE.12.035.12.0DR |

DTE

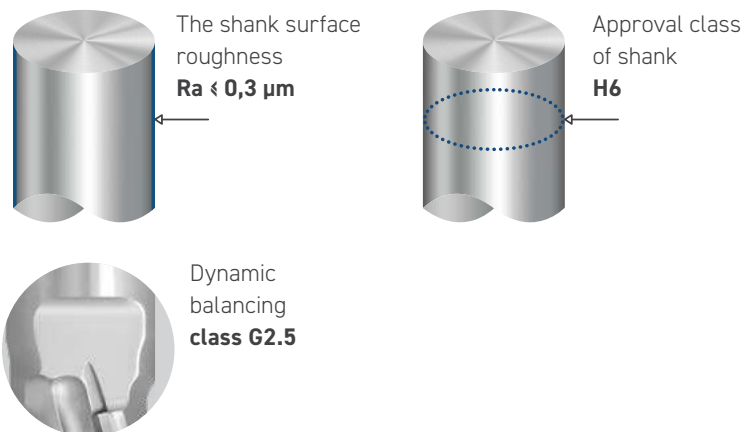


Technical details:

- Three full PCD blades spread out on three helix wings
- Body from special stainless steel
- Can be resharpened:
 - H4 - (4-5 sharpening operations);
 - H4,5 (5-6 sharpening operations)
- Fast feed rate, excellent finish of the working edge and quiet work

Application:

For jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without veneer, MDF, hardwood, plywood.

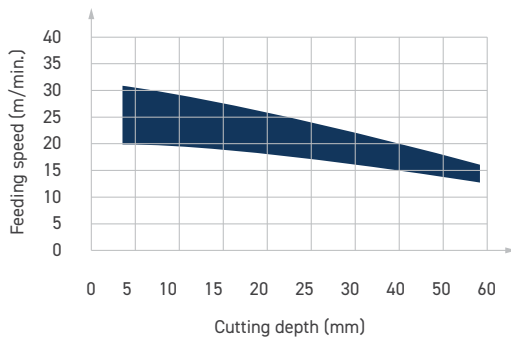


STAINLESS STEEL body:

| D mm | I mm | I ₁ mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH | ARTICLE LH |
|---------|---------|----------------------|---------|---------|----------|-------------|-------------------|-------------------|
| 16 | 20 | 8 | 84 | 16 | 10+1 PCD | 4 | DTE.16.020.16.0SR | - |
| 16 | 25 | 8 / 8 | 86 | 16 | 13+1 PCD | 4 | DTE.16.025.16.0SR | DTE.16.025.16.0SL |
| 16 | 25 | 8 | 90 | 20 | 13+1 PCD | 4 | DTE.16.025.20.0SR | - |
| 16 | 30 | 8 | 91 | 16 | 16+1 PCD | 4 | DTE.16.030.16.0SR | - |
| 16 | 35 | 8 / 8 | 96 | 16 | 18+1 PCD | 4 | DTE.16.035.16.0SR | DTE.16.035.16.0SL |
| 16 | 40 | 8 | 101 | 16 | 21+1 PCD | 4 | DTE.16.040.16.0SR | - |
| 18 | 25 | 8 | 87 | 20 | 14+1 PCD | 4,5 | DTE.18.025.20.0SR | - |
| 18 | 30 | 8 | 92 | 20 | 17+1 PCD | 4,5 | DTE.18.030.20.0SR | - |

Diamond Router Bits Z3+1 - TURBO

| D mm | I mm | I ₁ mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH | ARTICLE LH |
|---------|---------|----------------------|---------|---------|----------|-------------|-------------------|-------------------|
| 18 | 35 | 7 | 97 | 20 | 19+1 PCD | 4,5 | DTE.18.035.20.0SR | - |
| 18 | 45 | 7 | 107 | 20 | 25+1 PCD | 4,5 | DTE.18.045.20.0SR | - |
| 20 | 25 | 7 / 7 | 86 | 20 | 14+1 PCD | 4,5 | DTE.20.025.20.0SR | DTE.20.025.20.0SL |
| 20 | 35 | 7 / 7 | 96 | 20 | 19+1 PCD | 4,5 | DTE.20.035.20.0SR | DTE.20.035.20.0SL |
| 20 | 40 | 7 / 7 | 101 | 20 | 22+1 PCD | 4,5 | DTE.20.040.20.0SR | DTE.20.040.20.0SL |
| 20 | 45 | 7 / 7 | 111 | 20 | 26+1 PCD | 4,5 | DTE.20.045.20.0SR | DTE.20.045.20.0SL |
| 20 | 50 | 7 / 7 | 110 | 20 | 28+1 PCD | 4,5 | DTE.20.050.20.0SR | DTE.20.050.20.0SL |
| 20 | 55 | 7 | 116 | 20 | 31+1 PCD | 4,5 | DTE.20.055.20.0SR | - |
| 20 | 65 | 7 / 7 | 130 | 20 | 38+1 PCD | 4,5 | DTE.20.065.20.0SR | DTE.20.065.20.0SL |
| 25 | 25 | 7 / 7 | 88 | 20 | 14+1 PCD | 4,5 | DTE.25.025.20.0SR | DTE.25.025.20.0SL |
| 25 | 35 | 7 / 7 | 96 | 25 | 20+1 PCD | 4,5 | DTE.25.035.25.0SR | DTE.25.035.25.0SL |
| 25 | 45 | 7 / 7 | 111 | 20 | 26+1 PCD | 4,5 | DTE.25.045.20.0SR | DTE.25.045.20.0SL |
| 25 | 45 | 7 / 7 | 111 | 25 | 26+1 PCD | 4,5 | DTE.25.045.25.0SR | DTE.25.045.25.0SL |
| 25 | 65 | 7 | 130 | 25 | 38+1 PCD | 4,5 | DTE.25.065.25.0SR | - |



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

Sizes in inches:

| D inch | I inch | I ₁ mm | S inch | TIPS | PCD H mm | ARTICLE RH |
|-----------|-----------|----------------------|-----------|----------|-------------|-------------------|
| 5/8" | 1 1/8" | 7 | 3/4" | 11+1 PCD | 4,0 | DTE.16.027.19.5SR |
| 3/4" | 1 5/8" | 7 | 3/4" | 22+1 PCD | 4,5 | DTE.19.040.19.5SR |
| 3/4" | 2" | 6,5 | 3/4" | 18+1 PCD | 4,0 | DTE.19.049.19.5SR |

Diamond Router Bits Z3+1 – TURBO for Nesting

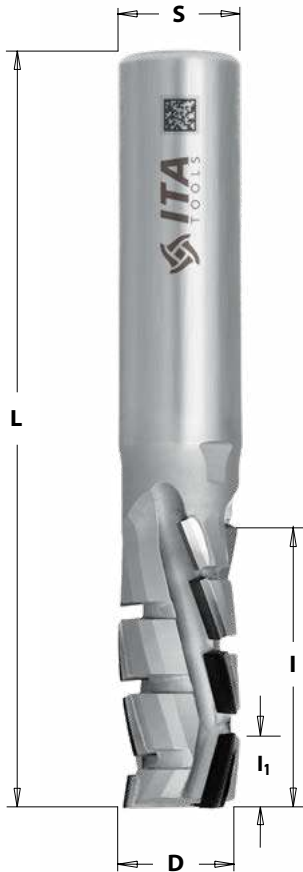
DTE



Z3+1

RH

LH



Technical details:

- Three full PCD blades spread out on three helix wings
- Body from special stainless steel
- Can be resharpened:
 - H3 - (3-4 sharpening operations),
 - H3,5 - (3-5 sharpening operations)
- Fast feed rate, excellent finish of the working edge and quiet work

Application:

Special construction for nesting and sizing plywood. For jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without veneer, MDF, hardwood, plywood.



The shank surface roughness
Ra ≤ 0,3 μm



Approval class of shank
H6



Dynamic balancing
class G2.5

STAINLESS STEEL body:

| D mm | I mm | I ₁ mm | L mm | S mm | TIPS | PCD H mm | ARTICLE RH |
|------|------|-------------------|------|------|----------|----------|-------------------|
| 16 | 20 | 9,5 | 81 | 20 | 7+1 PCD | 3,5 | DTE.16.020.20.NSR |
| 16 | 25 | 9,5 | 85 | 16 | 8+1 PCD | 3 | DTE.16.025.16.NSR |
| 16 | 35 | 9,5 | 96 | 16 | 11+1 PCD | 3 | DTE.16.035.16.NSR |

Diamond Router Bits Z2+2 for Nesting

DTF



Z2+2

RH



Technical details:

- Two full PCD blades spread out on four helix wings
- Body from DENSIMET®
- Can be resharpened: H2,5 - (2 - 3 sharpening operations)
- Construction positive or negative
- Fast feed rate, excellent finish of the working edge and quiet work

Application:

High performance PCD router bits for nesting with high feed rate. Excellent for materials such as raw or laminated chipboard, MDF and plywood.

Positive Z2+2

| D mm | I mm | I ₁ mm | L mm | S mm | Z | TIPS | PCD H mm | MATERIAL H mm | ARTICLE RH |
|------|------|-------------------|------|------|-----|----------|----------|---------------|--------------------|
| 12 | 19 | 7 | 64 | 12 | 2+2 | 8+1 PCD | 2,5 | 16-18 | DTF.12.019.12.0DRP |
| 12 | 24 | 7 | 69 | 12 | 2+2 | 11+1 PCD | 2,5 | 19-22 | DTF.12.024.12.0DRP |

Negative Z2+2

| D mm | I mm | I ₁ mm | L mm | S mm | Z | TIPS | PCD H mm | MATERIAL H mm | ARTICLE RH |
|------|------|-------------------|------|------|-----|----------|----------|---------------|--------------------|
| 12 | 19 | 7 | 64 | 12 | 2+2 | 8+1 PCD | 2,5 | 10-19 | DTF.12.019.12.0DRN |
| 12 | 24 | 7 | 69 | 12 | 2+2 | 11+1 PCD | 2,5 | 10-22 | DTF.12.024.12.0DRN |
| 16 | 25 | 7,5 | 84 | 16 | 2+2 | 11+1 PCD | 2,5 | 10-22 | DTF.16.025.16.0DRN |
| 16 | 35 | 7 | 94 | 16 | 2+2 | 17+1 PCD | 2,5 | 10-33 | DTF.16.035.16.0DRN |

arrangement of tips

arrangement of tips

DTM

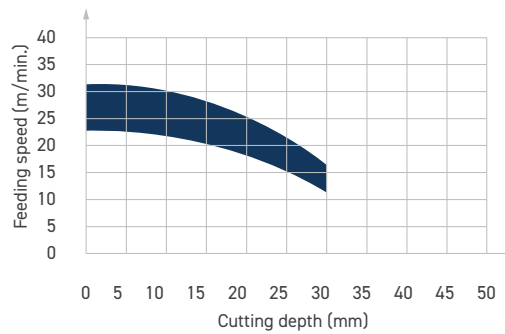


Technical details:

- Three full PCD blades spread out on six helix wings
- Body from DENSIMET®
- Can be resharpened: H2,5 (2-3 sharpening operations)
- Construction positive or negative
- Fast feed rate, excellent finish of the working edge and quiet work

Application:

High performance PCD router bits for nesting with high feed rate. Excellent for materials such as raw or laminated chipboard, MDF and plywood.



Results shown in this diagram are purely empirical, based merely on informative and could change depending of kind of work and type of material.

Positive Z3+3



| D mm | I mm | I ₁ mm | L mm | S mm | Z | TIPS | PCD H mm | MATERIAL H mm | ARTICLE RH |
|------|------|-------------------|------|------|-----|----------|----------|---------------|--------------------|
| 12 | 19 | 8 | 64 | 12 | 3+3 | 8+1 PCD | 2,5 | 16-18 | DTM.12.019.12.1DRP |
| 12 | 21 | 7 | 66 | 12 | 3+3 | 8+1 PCD | 2,5 | 18-20 | DTM.12.021.12.1DRP |
| 12 | 24 | 8 | 69 | 12 | 3+3 | 11+1 PCD | 2,5 | 19-22 | DTM.12.024.12.1DRP |
| 16 | 25 | 7 | 84 | 16 | 3+3 | 11+1 PCD | 2,5 | 19-22 | DTM.16.025.16.1DRP |
| 16 | 35 | 7 | 94 | 16 | 3+3 | 17+1 PCD | 2,5 | 30-33 | DTM.16.035.16.1DRP |

Negative Z3+3



| D mm | I mm | I ₁ mm | L mm | S mm | Z | TIPS | PCD H mm | MATERIAL H mm | ARTICLE RH |
|------|------|-------------------|------|------|-----|----------|----------|---------------|--------------------|
| 12 | 19 | 8 | 64 | 12 | 3+3 | 8+1 PCD | 2,5 | 10-19 | DTM.12.019.12.1DRN |
| 12 | 21 | 7 | 66 | 12 | 3+3 | 8+1 PCD | 2,5 | 10-20 | DTM.12.021.12.1DRN |
| 12 | 24 | 8 | 69 | 12 | 3+3 | 11+1 PCD | 2,5 | 10-22 | DTM.12.024.12.1DRN |
| 16 | 25 | 7 | 84 | 16 | 3+3 | 11+1 PCD | 2,5 | 10-22 | DTM.16.025.16.1DRN |
| 16 | 35 | 7 | 94 | 16 | 3+3 | 17+1 PCD | 2,5 | 10-33 | DTM.16.035.16.1DRN |

DTC



Technical details:

- Z2+2 - 2 full PCD blades spread out on four helix wings
- Z3+3 - 3 full PCD blades spread out on six helix wings
- Body from special stainless steel
- Can be resharpened: H4,5 (5-6 sharpening operations)
- Fast feed rate and quiet work
- Axial rake angle 35°

Application:

High Performance PCD router bit for jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without veneer, MDF, hardwood, plywood. Perfect finish especially on materials coated with a thin laminate and coating during working with very high feed rates.

| D mm | I mm | L mm | S mm | Z | TIPS | PCD H mm | ARTICLE RH |
|---------|---------|---------|---------|-----|----------|-------------|-------------------|
| 20 | 28 | 93 | 20x50 | 2+2 | 8+1 PCD | 4,5 | DTC.20.028.20.1SR |
| 20 | 28 | 93 | 20x50 | 3+3 | 12+1 PCD | 4,5 | DTC.20.028.20.2SR |
| 20 | 35 | 100 | 20x50 | 2+2 | 10+1 PCD | 4,5 | DTC.20.035.20.1SR |
| 20 | 35 | 100 | 20x50 | 3+3 | 15+1 PCD | 4,5 | DTC.20.035.20.2SR |

DTJ



Technical details:

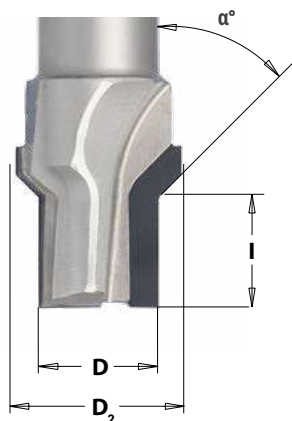
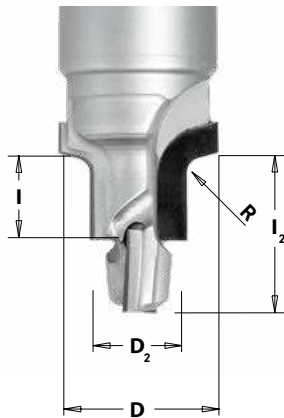
- Variety of tips configuration
- Body from special hard steel
- Height of PCD tip: H6
- PCD tip at the bottom to drill
- Fast feed rate and quiet work
- Axial rake angle 45°

Application:

High Performance PCD router bit for jointing, rabbeting, grooving, copying and dividing cuts of raw materials, chipboard panels with or without veneer, MDF, hardwood, plywood. Perfect finish especially on materials coated with a thin laminate and coating during working with very high feed rates.

| D mm | I mm | L mm | S mm | Z | TIPS | RH/ LH | ARTICLE |
|---------|---------|---------|---------|-------|------|-----------|--------------------|
| 50 | 48 | 107 | 25 | 4+2+4 | 24 | RH | DTJ.50.048.25.1SR6 |
| 50 | 48 | 107 | 25 | 4+2+4 | 24 | LH | DTJ.50.048.25.1SL6 |

FDI | FDT



Technical details:

- Full double PCD tips
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened:
 - H3 - (3-4 sharpening operations),
 - H4 - (3-5 sharpening operations)

Application:

Profiling of materials such as chipboard, raw or laminated MDF, HDF, plywood.

FDI Z2:

| D | D ₂ | I | L | S | Z | R | PCD H | ARTICLE RH |
|----|----------------|----|----|-------|-----|---|-------|-------------------|
| 23 | 12 | 18 | 79 | 20x50 | 2+1 | 3 | 3,0 | FDI.23.018.20.0SR |
| 26 | 16 | 16 | 75 | 20x50 | 2 | 3 | 4,0 | FDI.26.016.20.0SR |
| 26 | 1 | 24 | 84 | 20x50 | 2 | 3 | 4,0 | FDI.28.024.20.0SR |
| 30 | 16 | 18 | 83 | 16x50 | 2 | 5 | 4,0 | FDI.30.018.16.0SR |

FDI Z2+2:

| D | D ₂ | I | L | S | Z | R | PCD H | ARTICLE RH |
|----|----------------|----|----|-------|-----|---|-------|-------------------|
| 20 | 12 | 20 | 79 | 20x50 | 2+2 | 2 | 4,0 | FDI.20.019.20.0SR |
| 22 | 12 | 19 | 79 | 20x50 | 2+2 | 3 | 4,0 | FDI.22.019.20.0SR |

FDT Z2:

| D | D ₂ | I | L | S | Z | α | PCD H | ARTICLE RH |
|----|----------------|----|----|-------|---|----------|-------|-------------------|
| 22 | 16 | 17 | 80 | 16x50 | 2 | 45° | 4,0 | FDT.22.017.16.0SR |

FDH



Technical details:

- Full double PCD tips
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened: H4 - (4-5 sharpening operations)

Application:

Profiling of materials such as chipboard, raw or laminated MDF, HDF, plywood.

| D mm | I mm | L mm | S mm | Z | α | PCD H mm | ARTICLE RH |
|------|------|------|-------|-------|----------|----------|-------------------|
| 22 | 11 | 75 | 16x50 | 1 | 45° | 4,0 | FDH.22.011.16.0SR |
| 30 | 15 | 95 | 20x50 | 2 | 45° | 4,0 | FDH.30.015.20.4SR |
| 38 | 9 | 75 | 20x50 | 2 | 25° | 4,0 | FDH.38.009.20.0SR |
| 35 | 10 | 75 | 16x50 | 2 | 30° | 4,0 | FDH.35.010.16.0SR |
| 50 | 8 | 75 | 20x50 | 2 | 18° | 4,0 | FDH.50.008.20.0SR |
| 50 | 25 | 90 | 20x50 | 2+2+1 | 45° | 4,0 | FDH.50.025.20.0SR |



| D mm | D ₂ mm | I mm | I ₂ mm | L mm | S mm | Z | α | PCD H mm | ARTICLE RH |
|------|-------------------|------|-------------------|------|-------|---|----------|----------|-------------------|
| 30 | 10 | 10 | 13,7 | 70 | 20x50 | 2 | 45° | 4,0 | FDH.30.010.20.1SR |
| 33 | 3 | 15 | 17,5 | 71 | 20x50 | 2 | 45° | 4,0 | FDH.33.015.20.0SR |

FDP



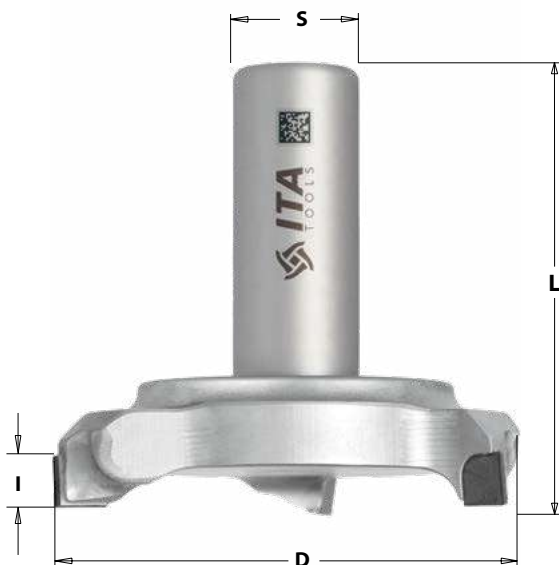
Technical details:

- Full double/triple PCD tips
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened:
 - H4 - (4-5 sharpening operations),
 - H6 - (5-6 sharpening operations)

Application:

Profiling of materials such as chipboard, raw or laminated MDF, HDF, plywood.

| D mm | I mm | L mm | S mm | Z | PCD H mm | ARTICLE RH |
|---------|---------|---------|---------|-----|-------------|-------------------|
| 20 | 15 | 80 | 20x50 | 3+1 | 4,0 | FDP.20.015.20.1SR |
| 30 | 14 | 75 | 20x50 | 2+2 | 4,0 | FDP.30.014.20.0SR |
| 40 | 14 | 75 | 20x50 | 2+2 | 4,0 | FDP.40.014.20.0SR |
| 50 | 14 | 75 | 20x50 | 2+2 | 4,0 | FDP.50.014.20.1SR |
| 60 | 14 | 75 | 20x50 | 2+2 | 4,0 | FDP.60.014.20.0SR |
| 80 | 8 | 70 | 20x50 | 3 | 6,0 | FDP.80.008.20.1SR |



FDA | FFR | FDU



Technical details:

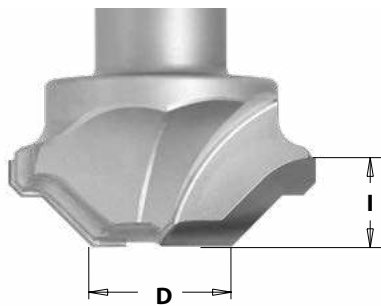
- Full double PCD tips
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened: H4 - (4-5 sharpening operations)

Application:

Profiling of materials such as chipboard, raw or laminated MDF, HDF, plywood.

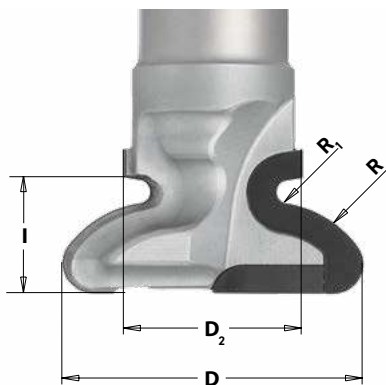
FDA

| D mm | I mm | L mm | S mm | Z | R mm | PCD H mm | ARTICLE RH |
|------|------|------|-------|---|------|----------|-------------------|
| 52 | 10 | 75 | 16x50 | 2 | 40 | 4 | FDA.52.010.16.0SR |



FFR

| D mm | D ₂ mm | I mm | L mm | S mm | Z | PCD H mm | ARTICLE RH |
|------|-------------------|------|------|-------|---|----------|-------------------|
| 46 | 21 | 7 | 76 | 20x50 | 2 | 4 | FFR.46.007.20.0SR |



FDU Finger pull cutter

| D mm | D ₂ mm | I mm | L mm | S mm | Z | R mm | R ₁ mm | PCD H mm | ARTICLE RH |
|------|-------------------|------|------|-------|---|------|-------------------|----------|-------------------|
| 40 | 16,8 | 15 | 80 | 20x50 | 2 | 4 | 1,5 | 4 | FDU.40.015.20.2SR |

FVI - FHI

VHM

Z2

RH



Technical details:

- Special type of carbide - increased tool life
- Radius cutters
- Possibility of using variety coatings

Application:

For rounding materials. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | R mm | ARTICLE |
|---------|---------|---------|---------|---------|---------------------|
| 8 | 2 | 70 | 8 | 2 | FVI.08.002.070.08R2 |
| 10 | 2 | 60 | 10 | 2 | FVI.10.002.060.10R2 |
| 10 | 3 | 70 | 10 | 3 | FVI.10.003.070.10R3 |
| 12 | 4 | 70 | 12 | 4 | FVI.12.004.070.12R4 |
| 16 | 5 | 70 | 16 | 5 | FVI.16.005.070.16R5 |
| 16 | 6 | 70 | 16 | 6 | FVI.16.006.070.16R6 |
| 18 | 6 | 70 | 16 | 7 | FVI.18.006.070.16R7 |
| 20 | 6 | 70 | 20 | 8 | FVI.20.006.070.20R8 |

FWP

VHM

Z3

Z2

RH

EXCHANGEABLE
PLATES



Technical details:

- Body made from stainless steel > 28 HRC
- Two [Z2] / Three [Z3] cutting edges with exchangeable HM knives

Application:

Cutter for planing on CNC machines, ideal for machining of large surfaces of material, leaving well-finished surfaces. Designed for wood soft and hard, chipboard and MDF. The possibility of using tiles of different hardness, depending on workpiece material.

| D mm | I mm | L mm | S mm | Z | ARTICLE RH |
|---------|---------|---------|---------|---|--------------------|
| 35 | 10 | 60 | 8x40 | 3 | FWP.035.010.08.0SR |
| 38 | 12 | 60 | 12x40 | 3 | FWP.038.012.12.0SR |
| 60 | 12 | 80 | 12x50 | 3 | FWP.060.012.12.0SR |
| 80 | 12 | 90 | 20x50 | 3 | FWP.080.012.20.0SR |

Spare parts:

| 105105 | SM4.6.8.T15.01 |
|--------|----------------|
| 412124 | SM4.6.8.T15.02 |
| 412124 | SM4.6.8.T15.02 |
| 412124 | SM4.6.8.T15.02 |

| D mm | I mm | L mm | S mm | Z | ARTICLE RH |
|---------|---------|---------|---------|---|--------------------|
| 58 | 12 | 85 | 20x50 | 2 | FWP.058.012.20.0SR |

Spare parts:

| 330124 | SM3.8 |
|--------|-------|



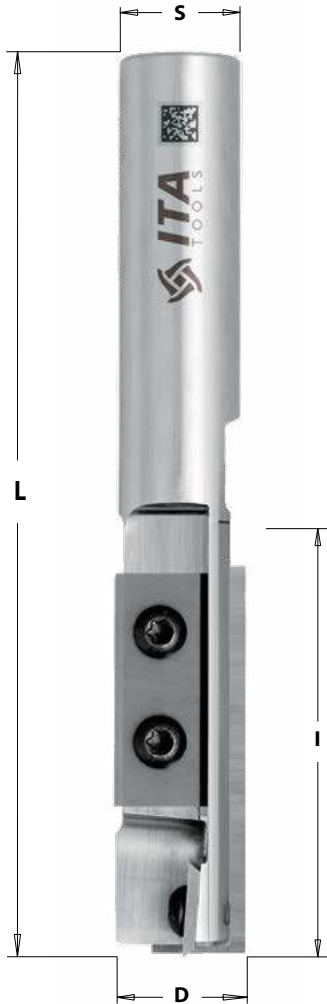
FWR

VHM

Z2+1

RH

EXCHANGEABLE
PLATES



Technical details:

- Body made from stainless steel > 28 HRC
- Z2+1 cutting edges with exchangeable HM knives

Application:

Cutter for using on CNC machines. Designed for wood soft and hard, chipboard and MDF. The possibility of using tiles of different hardness, depending on workpiece material.

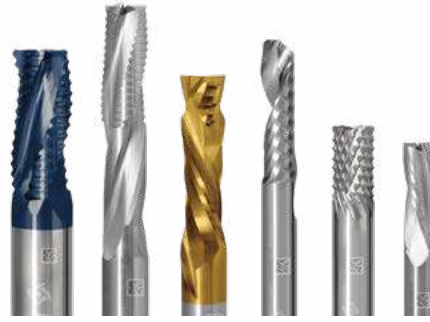
| D mm | I mm | L mm | S mm | Z | ARTICLE |
|---------|---------|---------|---------|-----|--------------------|
| 18 | 50 | 115 | 16 | 2+1 | FWR.18.050.115.16R |

Spare parts:

| | | | |
|--|--|-------|--|
| | | | |
| | | 50123 | |
| | | 30122 | |
| | | 75122 | |

Chapter

Solid Carbide Router Bits



PCD & HM TOOLS

SOLID CARBIDE ROUTER BITS

PCD & VHM TOOLS FOR COMPOSITES

CHUCKS & ACCESSORIES

TOOLS FOR EDGEBANDING MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT & SYSTEM KNIVES

STARTER KIT

SA01 series
p. 43



SB01 series
p. 44



SB51 series
p. 46



SC01 series
p. 47




SC03 series
p. 48



SC23 series
p. 49



SC51 series
p. 50



SF01 series
p. 51



SF01.TR series
p. 52




SF01.XR, SF05.XR, SF30.XR series
p. 53



SC01.XR, SC51.XR series
p. 54



SH01.XR series
p. 55




SF30, SF05 series
p. 56



SF51 series
p. 57



SH01 series
p. 58




SL01, SM01, SN01 series
p. 59



SL01.TR, SM01.TR, SN01.TR series
p. 61



X90 series
p. 62



SI01 series
p. 63



SQ29 series
p. 64



PROTECTIVE COATING:

A coating is a layer that covers the surface of an object. Its main function is to protect or improve the mechanical, physical or chemical properties of the tool.

For tribological coatings that are mainly used to optimize friction coefficient, the thickness is usually between 1 to 5 microns.



Advantages of using protective coatings on tools are as follows:

- Tools become more resistant to abrasion
- Friction coefficient is reduced
- Corrosion resistance of the tools is increased
- Tool wear is slowed down, which leads to longer tool life
- Adhesion of the processed material to the surface is reduced
- Operating parameters such as feed and rotational speed can be increased, compared to uncoated tools
- Work optimization is increased by reducing downtime needed for tool replacement.

Coating Specification:

| NAME | HARDNESS GPa | HARDNESS HV 0,05 | FRICTION COEFFICIENT | COATING THICKNESS µm | INDEX |
|-----------|-----------------|---------------------|-------------------------|-------------------------|-------|
| AlTiN | 33 | 3350 | 0,5 | 1-4 | .ATR |
| TiSiN | 35 | 3570 | 0,5 | 1-4 | .TSR |
| NaDia | 36 | 3650 | 0,01-0,05 | 1-4 | .XTR |
| PLATINIUM | 30 | 3000 | 0,2 | 1-4 | .PR |
| HC | 50-60 | 5000-6000 | 0,1-0,2 | 1-2 | .HCR |

Application:

| MATERIALS | TiSiN | AlTiN | NaDia | PLATINIUM | HC |
|------------|-------|-------|-------|-----------|----|
| Solid Wood | ★ | - | ★ | ★ | ★ |
| Chipboard | ★ | - | ★ | ★ | ★ |
| Plywood | ★ | - | ★ | ★ | ★ |
| Aluminum | - | ★ | ★ | - | ★ |
| Plastics | ★ | ★ | ★ | - | ★ |
| Composites | - | ★ | ★ | - | ★ |

★ - Recommended coating

AlTiN Coating



Specification:

- Colour: Anthracite
- Hardness: 5000-6000 [HV 0,05]
- Thickness: 1-2 [µm]
- Friction coefficient: 0,1-0,2
- Index: .HCR/L

Application:

- Automotive industry
- Airline industry
- Production of injection molds

Information:

The HC coating is known for its high hardness, which makes it perfect for processing aluminum alloys and composite materials. It is thinner than standard PVD coatings, resulting in a sharper cutting edge. Moreover, it enhances the heat resistance of the tool by reducing the coefficient of friction and preventing the material being processed from sticking to the tool.

TiSiN Coating



Specification:

- Colour: Copper-like
- Hardness: 3570 [HV 0,05]
- Thickness: 1-4 [µm]
- Friction coefficient: 0,5
- Index: .TSR

Application:

- Solid wood
- Laminated chipboard
- Plywood
- Aluminum
- Plastics

Information:

The coating exhibits excellent wear resistance even at high temperatures, allowing for prolonged tool life and reduced need for replacement.

NaDia Coating



Specification:

- Colour: Black
- Hardness: 3650 [HV 0,05]
- Thickness: 1-4 [µm]
- Friction coefficient: 0.01-0.05
- Index: .XTR

Application:

- Solid wood
- Laminated chipboard
- Plywood
- Aluminum
- Plastics

Information:

The coating has been developed to meet the specific needs of the wood industry. It is highly durable and can also be used in the processing of aluminum and plastics. This coating is unique in that it is applied at low temperatures, resulting in increased hardness and a lower friction coefficient.

PLATINIUM Coating



Specification:

- Colour: Nonuniform (gold, purple, blue)
- Hardness: 300 [HV 0,05]
- Thickness: 1-4 [µm]
- Friction coefficient: 0.02
- Index: .PR

Application:

- MDF
- Laminated chipboard
- Chipboard
- Plywood

Information:

Introducing an innovative two-layer PVD coating designed specifically for processing hard materials. This unique combination of hard and tribological layers allows for the optimization of the friction coefficient, significantly reducing the sticking of processed materials on the tool surface. By applying this coating, you can extend the life of your tool significantly while achieving the highest quality results after processing.

HC Coating



Specification:

- Colour: Gray
- Hardness: 3350 [HV 0,05]
- Thickness: 1-4 [µm]
- Friction coefficient: 0,5
- Index: .ATR

Application:

- Aluminum
- Plastics
- Composite materials

Info:

Coating with hardness and high player performance. Available in aluminum alloys with a higher admixture of silicon, the additional coating slows down the process of tool use and the sticking of cuttings to the cutting edges.

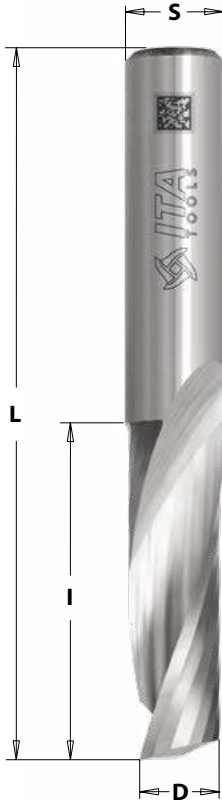
SA01 - 198

positive

VHM

Z1

RH



Technical details:

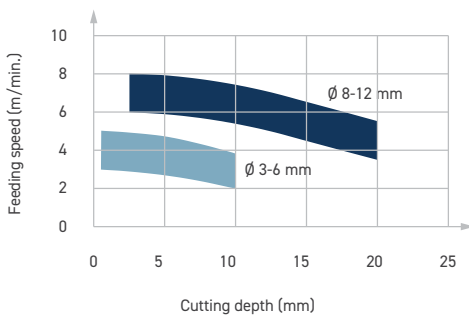
- 1 spiral cutting edge
- Upward chip ejection
- Right-hand rotation
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood and wood-based materials. Can be used on machining centres, point to point machines, CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE |
|------|------|------|------|---------------------|
| 3 | 12 | 50 | 3 | SA01.03.012.050.03R |
| 4 | 15 | 50 | 4 | SA01.04.015.050.04R |
| 5 | 17 | 50 | 5 | SA01.05.017.050.05R |
| 6 | 22 | 60 | 6 | SA01.06.022.060.06R |
| 8 | 22 | 70 | 8 | SA01.08.022.070.08R |
| 10 | 32 | 70 | 10 | SA01.10.032.070.10R |
| 10 | 42 | 80 | 10 | SA01.10.042.080.10R |
| 10 | 52 | 90 | 10 | SA01.10.052.090.10R |
| 12 | 32 | 83 | 12 | SA01.12.032.083.12R |

Ø 3-12 mm | Soft wood



RPM: 18000 - 24000

Correction factor:

- hardwood = 0,9
- milling across fiber = 0,7
- raw chipboard = 1,1

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|--------|--------|--------|--------|---------------------|
| 1/8 | 1/2 | 2 | 1/4 | SA01.32.127.508.64R |
| 3/16 | 5/8 | 2 | 1/4 | SA01.48.159.508.64R |
| 1/4 | 3/4 | 2 | 1/4 | SA01.64.191.508.64R |
| 1/4 | 1 | 2 | 1/4 | SA01.64.254.635.64R |
| 3/8 | 1-1/8 | 3 | 3/8 | SA01.95.286.762.95R |

Detailed information on protective coatings can be found on pages: 39-42.

Solid Carbide Finishing Upcut Spiral Bits Z2

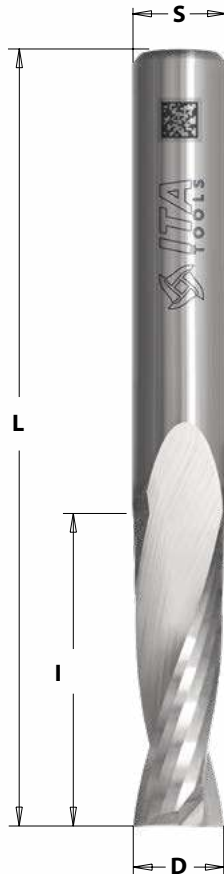
SB01 - 191
positive

VHM

Z2

RH

LH



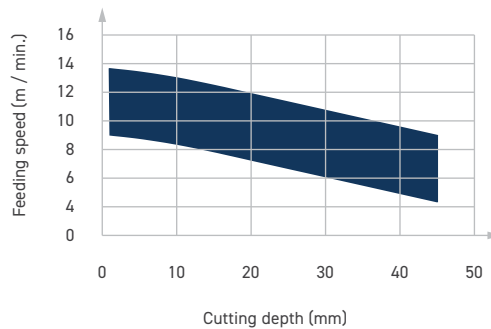
Technical details:

- 2 spiral cutting edges
- Upward chip ejection
- Right-hand / Left-hand rotation
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood and wood-based materials.
Can be used on machining centres, point to point machines, CNC routers.

Ø 12-20 mm | Soft wood



RPM: 18000

Correction factor:

- hardwood = 0,9
- milling across of fiber = 0,7

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

| D mm | I mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|---------------------|---------------------|
| 3 | 12 | 50 | 3 | SB01.03.012.050.03R | SB01.03.012.050.03L |
| 3 | 12 | 60 | 6 | SB01.03.012.060.06R | SB01.03.012.060.06L |
| 3 | 12 | 60 | 8 | SB01.03.012.060.08R | SB01.03.012.060.08L |
| 4 | 15 | 50 | 4 | SB01.04.015.050.04R | SB01.04.015.050.04L |
| 4 | 15 | 60 | 6 | SB01.04.015.060.06R | SB01.04.015.060.06L |
| 4 | 15 | 60 | 8 | SB01.04.015.060.08R | SB01.04.015.060.08L |
| 5 | 17 | 50 | 5 | SB01.05.017.050.05R | SB01.05.017.050.05L |
| 5 | 17 | 60 | 6 | SB01.05.017.060.06R | SB01.05.017.060.06L |
| 5 | 17 | 60 | 8 | SB01.05.017.060.08R | SB01.05.017.060.08L |
| 6 | 27 | 70 | 6 | SB01.06.027.070.06R | SB01.06.027.070.06L |
| 6 | 27 | 70 | 8 | SB01.06.027.070.08R | SB01.06.027.070.08L |
| 7 | 32 | 80 | 8 | SB01.07.032.080.08R | SB01.07.032.080.08L |

Solid Carbide Finishing Upcut Spiral Bits Z2

| D mm | I mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|---------------------|---------------------|
| 8 | 22 | 70 | 8 | SB01.08.022.070.08R | SB01.08.022.070.08L |
| 8 | 32 | 80 | 8 | SB01.08.032.080.08R | SB01.08.032.080.08L |
| 8 | 42 | 90 | 8 | SB01.08.042.090.08R | SB01.08.042.090.08L |
| 9 | 32 | 83 | 12 | SB01.09.032.083.12R | SB01.09.032.083.12L |
| 10 | 32 | 80 | 8 | SB01.10.032.080.08R | SB01.10.032.080.08L |
| 10 | 32 | 80 | 10 | SB01.10.032.080.10R | SB01.10.032.080.10L |
| 10 | 32 | 83 | 12 | SB01.10.032.083.12R | SB01.10.032.083.12L |
| 10 | 42 | 90 | 10 | SB01.10.042.090.10R | SB01.10.042.090.10L |
| 10 | 42 | 90 | 12 | SB01.10.042.090.12R | SB01.10.042.090.12L |
| 12 | 35 | 83 | 8 | SB01.12.035.083.08R | SB01.12.035.083.08L |
| 12 | 35 | 83 | 12 | SB01.12.035.083.12R | SB01.12.035.083.12L |
| 12 | 42 | 90 | 12 | SB01.12.042.090.12R | SB01.12.042.090.12L |
| 12 | 52 | 100 | 12 | SB01.12.052.100.12R | SB01.12.052.100.12L |
| 16 | 35 | 90 | 16 | SB01.16.035.090.16R | SB01.16.035.090.16L |
| 20 | 60 | 120 | 20 | SB01.20.060.120.20R | SB01.20.060.120.20L |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE RH | ARTICLE LH |
|-----------|-----------|-----------|-----------|----------------------|----------------------|
| 1/8 | 1/2 | 2 | 1/4 | SB01.32.127.508.64R | SB01.32.127.508.64L |
| 5/32 | 1/2 | 2 | 1/4 | SB01.39.127.508.64R | SB01.39.127.508.64L |
| 3/16 | 3/4 | 2 | 1/4 | SB01.48.SB01.508.64R | SB01.48.SB01.508.64L |
| 1/4 | 3/4 | 2 | 1/4 | SB01.64.SB01.508.64R | SB01.64.SB01.508.64L |
| 1/4 | 1 | 2-1/2 | 1/4 | SB01.64.254.635.64R | SB01.64.254.635.64L |
| 5/16 | 1 | 3 | 1/2 | SB01.79.254.762.13R | SB01.79.254.762.13L |
| 3/8 | 1-1/4 | 3-1/4 | 1/2 | SB01.95.318.826.13R | SB01.95.318.826.13L |
| 1/2 | 1-1/4 | 3 | 1/2 | SB01.13.318.762.13R | SB01.13.318.762.13L |
| 1/2 | 1-1/2 | 3-1/2 | 1/2 | SB01.13.381.889.13R | SB01.13.381.889.13L |
| 1/2 | 1-1/2 | 4 | 1/2 | SB01.13.381.102.13R | SB01.13.381.102.13L |
| 5/8 | 2-1/8 | 4-5/16 | 5/8 | SB01.16.540.110.16R | SB01.16.540.110.16L |
| 3/4 | 2-1/8 | 4-5/16 | 3/4 | SB01.19.540.110.19R | SB01.19.540.110.19L |

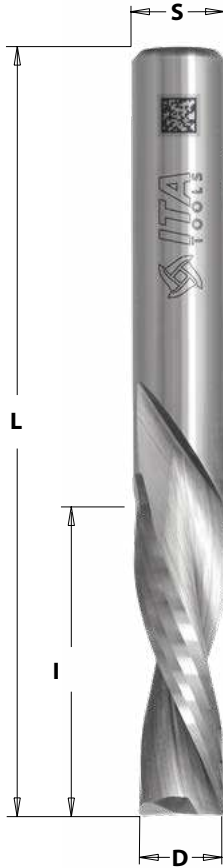
Detailed information on protective coatings can be found on pages: 39-42.

SB51 - 192 negative

VHM

Z2

RH



Technical details:

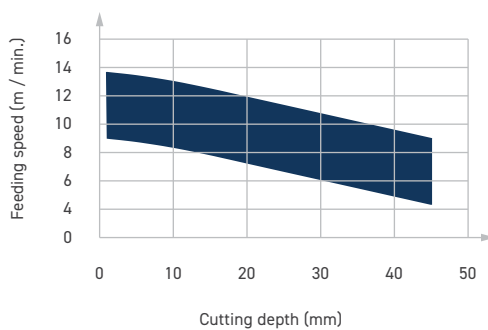
- 2 spiral cutting edges
- Downward chip ejection
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood and wood-based materials.
Can be used on machining centres, point to point machines, CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|---------------------|
| 3 | 12 | 50 | 3 | SB51.03.012.050.03R |
| 3 | 12 | 60 | 6 | SB51.03.012.060.06R |
| 3 | 12 | 60 | 8 | SB51.03.012.060.08R |
| 4 | 15 | 50 | 4 | SB51.04.015.050.04R |
| 4 | 15 | 60 | 6 | SB51.04.015.060.06R |
| 4 | 15 | 60 | 8 | SB51.04.015.060.08R |
| 5 | 17 | 50 | 5 | SB51.05.017.050.05R |
| 5 | 17 | 60 | 8 | SB51.05.017.060.08R |
| 5 | 17 | 60 | 6 | SB51.05.017.060.06R |
| 6 | 27 | 70 | 6 | SB51.06.027.070.06R |
| 6 | 27 | 70 | 8 | SB51.06.027.070.08R |
| 8 | 22 | 70 | 8 | SB51.08.022.070.08R |
| 8 | 32 | 80 | 8 | SB51.08.032.080.08R |
| 8 | 42 | 90 | 8 | SB51.08.042.090.08R |
| 10 | 32 | 80 | 10 | SB51.10.032.080.10R |
| 12 | 35 | 83 | 12 | SB51.12.035.083.12R |

Ø 12-20 mm | Soft wood



RPM: 18000

Correction factor:

- hardwood = 0,9
- milling across of fiber = 0,7

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

Detailed information on protective coatings can be found on pages: 39-42.

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE RH |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 1/2 | 2 | 1/4 | SB51.32.127.508.64R |
| 5/32 | 1/2 | 2 | 1/4 | SB51.32.127.508.64R |
| 3/16 | 3/4 | 2 | 1/4 | SB51.48.191.508.64R |
| 1/4 | 3/4 | 2 | 1/4 | SB51.64.191.508.64R |
| 1/4 | 1 | 2-1/2 | 1/4 | SB51.64.254.635.64R |
| 5/16 | 1 | 3 | 1/2 | SB51.79.254.762.13R |
| 3/8 | 1-1/4 | 3-1/4 | 1/2 | SB51.95.318.826.13R |
| 1/2 | 1-1/4 | 3 | 1/2 | SB51.13.318.762.13R |
| 1/2 | 1-1/2 | 3-1/2 | 1/2 | SB51.13.381.889.13R |
| 1/2 | 1-1/2 | 4 | 1/2 | SB51.13.381.102.13R |

SC01 - 193

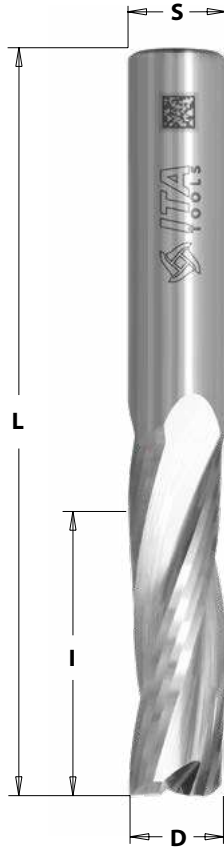
positive

VHM

Z3

RH

LH



Technical details:

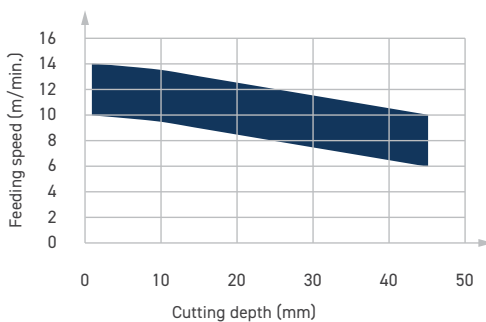
- 3 spiral cutting edges
- Upward chip ejection
- Right-hand / Left-hand rotation
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood and wood-based materials.
Can be used on machining centres, point to point machines, CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|---------------------|---------------------|
| 8 | 32 | 80 | 8 | SC01.08.032.080.08R | SC01.08.032.080.08L |
| 10 | 32 | 80 | 10 | SC01.10.032.080.10R | SC01.10.032.080.10L |
| 10 | 42 | 90 | 10 | SC01.10.042.090.10R | SC01.10.042.090.10L |
| 12 | 35 | 80 | 12 | SC01.12.035.080.10R | SC01.12.035.080.10L |
| 12 | 42 | 90 | 12 | SC01.12.042.090.12R | SC01.12.042.090.12L |
| 12 | 52 | 100 | 12 | SC01.12.052.100.12R | SC01.12.052.100.12L |
| 16 | 35 | 90 | 16 | SC01.16.035.090.16R | SC01.16.035.090.16L |
| 16 | 55 | 110 | 16 | SC01.16.055.110.16R | SC01.16.055.110.16L |
| 16 | 72 | 120 | 16 | SC01.16.072.120.16R | SC01.16.072.120.16L |
| 18 | 55 | 110 | 18 | SC01.18.055.110.18R | SC01.18.055.110.18L |
| 20 | 60 | 120 | 20 | SC01.20.060.120.20R | SC01.20.060.120.20L |
| 20 | 70 | 120 | 20 | SC01.20.070.120.20R | SC01.20.070.120.20L |
| 20 | 102 | 165 | 20 | SC01.20.102.165.20R | SC01.20.102.165.20R |

Ø 12-20 mm | Soft wood



RPM: 18000

Correction factor:

- hardwood = 0,9
- milling across of fiber = 0,7

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE RH | ARTICLE LH |
|-----------|-----------|-----------|-----------|---------------------|---------------------|
| 5/16 | 1 | 3 | 1/2 | SC01.79.254.762.13R | SC01.79.254.762.13L |
| 3/8 | 1-1/4 | 3-1/4 | 1/2 | SC01.95.318.826.13R | SC01.95.318.826.13L |
| 1/2 | 1-1/4 | 3 | 1/2 | SC01.13.318.762.13R | SC01.13.318.762.13L |
| 1/2 | 1-1/2 | 3-1/2 | 1/2 | SC01.13.381.889.13R | SC01.13.381.889.13L |
| 5/8 | 2-1/8 | 4-5/16 | 5/8 | SC01.16.540.110.16R | SC01.16.540.110.16L |
| 3/4 | 2-1/8 | 4-5/16 | 3/4 | SC01.19.540.110.19R | SC01.19.540.110.19L |

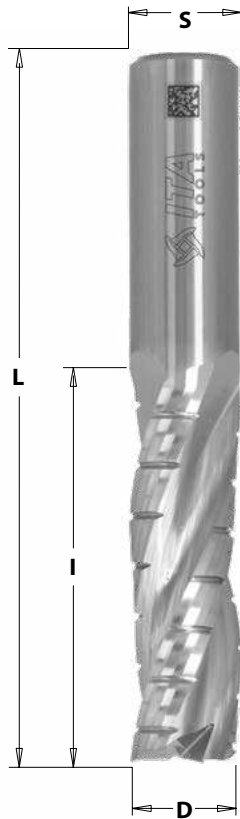
Detailed information on protective coatings can be found on pages: 39-42.

SC03 - 193Rn positive

VHM

Z3R

RH



Technical details:

- 3 spiral cutting edges
- Upward chip ejection
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood and wood-based materials.
Can be used on machining centres, point to point machines, CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|---------------------|
| 6 | 22 | 60 | 6 | SC03.06.022.060.06R |
| 8 | 32 | 72 | 8 | SC03.08.032.072.08R |
| 10 | 32 | 72 | 10 | SC03.10.032.072.10R |
| 10 | 42 | 90 | 10 | SC03.10.042.090.10R |
| 10 | 52 | 100 | 10 | SC03.10.052.100.10R |
| 12 | 42 | 90 | 12 | SC03.12.042.090.12R |
| 12 | 52 | 100 | 12 | SC03.12.052.100.12R |
| 14 | 42 | 100 | 14 | SC03.14.042.100.14R |
| 16 | 42 | 90 | 16 | SC03.16.042.090.16R |
| 16 | 52 | 100 | 16 | SC03.16.052.100.16R |
| 16 | 62 | 110 | 16 | SC03.16.062.110.16R |
| 16 | 72 | 130 | 16 | SC03.16.072.130.16R |
| 18 | 55 | 110 | 18 | SC03.18.055.110.18R |
| 20 | 60 | 120 | 20 | SC03.20.060.120.20R |
| 20 | 102 | 165 | 20 | SC03.20.102.165.20R |

Sizes in inches:

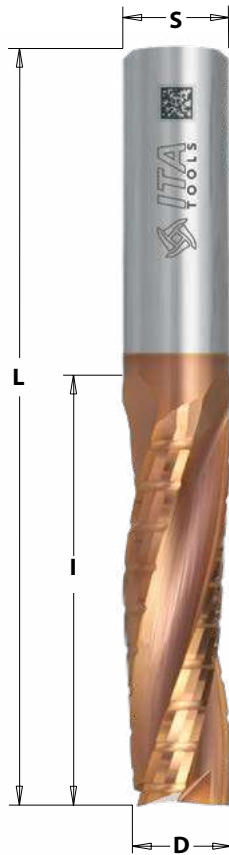
| D inch | I inch | L inch | S inch | ARTICLE RH |
|-----------|-----------|-----------|-----------|---------------------|
| 1/2 | 1-1/4 | 3 | 1/2 | SC03.13.318.762.13R |
| 5/8 | 2-1/8 | 4-5/16 | 5/8 | SC03.16.540.110.16R |
| 3/4 | 4 | 6-1/2 | 3/4 | SC03.19.102.165.19R |

Detailed information on protective coatings can be found on pages: 39-42.

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

SC23 - 193Rn

positive



Technical details:

- 3 spiral cutting edges
- Upward chip ejection
- Premium quality solid carbide
- Excellent finish
- With TiSiN coating

Application:

For cutting and milling in solid wood, chipboard, plywood and hard materials. Can be used on machining centres, point to point machines, CNS routers.

Advantages:

High wear resistance during processing in hard materials. Extended tool life, higher machining quality and higher possible feed speeds.

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|----------------------|
| 8 | 22 | 60 | 8 | SC23.08.022.060.08TR |
| 10 | 25 | 70 | 10 | SC23.10.025.070.10TR |
| 12 | 35 | 80 | 12 | SC23.12.035.080.12TR |
| 16 | 55 | 110 | 16 | SC23.16.055.110.16TR |
| 20 | 60 | 120 | 20 | SC23.20.060.120.20TR |

Detailed information on protective coatings can be found on pages: 39-42.

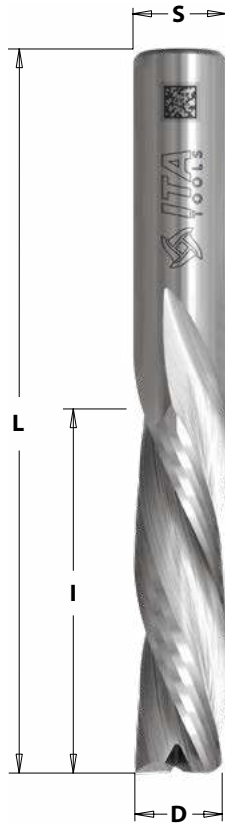
Solid Carbide Finishing Downcut Spiral Bits Z3

SC51 - 194 negative

VHM

Z3

RH



Technical details:

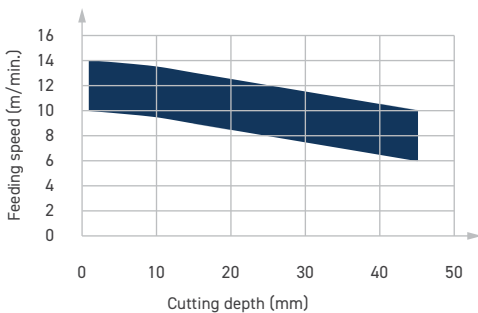
- 3 spiral cutting edges
- Downward chip ejection
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood and wood-based materials. Can be used on machining centres, point to point machines, CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|---------------------|
| 10 | 32 | 80 | 10 | SC51.10.032.080.10R |
| 10 | 42 | 90 | 10 | SC51.10.042.090.10R |
| 12 | 35 | 83 | 12 | SC51.12.035.083.12R |
| 14 | 50 | 110 | 14 | SC51.14.050.110.14R |
| 16 | 55 | 110 | 16 | SC51.16.055.110.16R |
| 16 | 35 | 90 | 16 | SC51.16.035.090.16R |
| 18 | 55 | 110 | 18 | SC51.18.055.110.18R |
| 20 | 60 | 120 | 20 | SC51.20.060.120.20R |
| 20 | 72 | 120 | 20 | SC51.20.072.120.20R |

Ø 12-20 mm | Soft wood



RPM: 18000

Correction factor:

- hardwood = 0,9
- milling across of fiber = 0,7

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE RH |
|-----------|-----------|-----------|-----------|---------------------|
| 3/8 | 1-1/4 | 3-1/4 | 1/2 | SC51.95.318.826.13R |
| 1/2 | 1-1/4 | 3 | 1/2 | SC51.13.318.762.13R |
| 1/2 | 1-1/2 | 3-1/2 | 1/2 | SC51.13.381.889.13R |
| 5/8 | 2-1/8 | 4-5/16 | 5/8 | SC51.16.540.110.16R |
| 3/4 | 2-1/8 | 4-5/16 | 3/4 | SC51.19.540.110.19R |

Detailed information on protective coatings can be found on pages: 39-42.

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

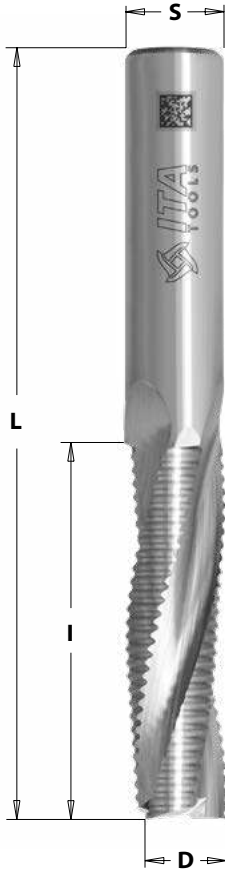
SF01 - 195 positive

VHM

Z3

RH

LH



Technical details:

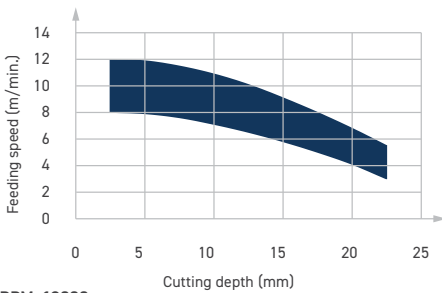
- 3 spiral cutting edges
- Upward chip ejection
- Premium quality solid carbide
- Right-hand / Left-hand rotation

Application:

For cutting and milling in solid wood and wood-based materials. Can be used on machining centres, point to point machines, CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|---------------------|---------------------|
| 6 | 32 | 70 | 6 | SF01.06.032.070.06R | SF01.06.032.070.06L |
| 8 | 22 | 63 | 8 | SF01.08.022.063.08R | SF01.08.022.063.08L |
| 8 | 32 | 80 | 8 | SF01.08.032.080.08R | SF01.08.032.080.08L |
| 10 | 32 | 80 | 10 | SF01.10.032.080.10R | SF01.10.032.080.10L |
| 10 | 42 | 90 | 10 | SF01.10.042.090.10R | SF01.10.042.090.10L |
| 12 | 35 | 83 | 12 | SF01.12.035.083.12R | SF01.12.035.083.12L |
| 12 | 42 | 90 | 12 | SF01.12.042.090.12R | SF01.12.042.090.12L |
| 12 | 52 | 100 | 12 | SF01.12.052.100.12R | SF01.12.052.100.12L |
| 14 | 58 | 110 | 14 | SF01.14.058.110.14R | SF01.14.058.110.14L |
| 16 | 35 | 90 | 16 | SF01.16.035.090.16R | SF01.16.035.090.16L |
| 16 | 42 | 90 | 16 | SF01.16.042.090.16R | SF01.16.042.090.16L |
| 16 | 55 | 110 | 16 | SF01.16.055.110.16R | SF01.16.055.110.16L |
| 16 | 72 | 120 | 16 | SF01.16.072.120.16R | SF01.16.072.120.16L |
| 18 | 55 | 110 | 18 | SF01.18.055.110.18R | SF01.18.055.110.18L |
| 20 | 60 | 120 | 20 | SF01.20.060.120.20R | SF01.20.060.120.20L |
| 20 | 102 | 165 | 20 | SF01.20.102.165.20R | SF01.20.102.165.20L |

Ø 8-10 mm | Soft wood

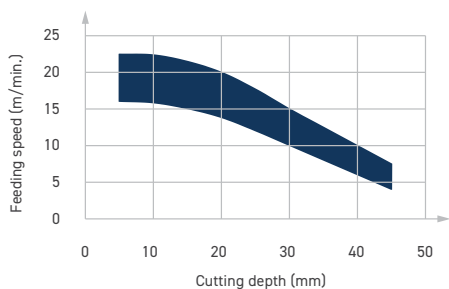


RPM: 18000

Correction factor:

- Hardwood = 0,8
- Chipboard without coating = 1,3

Ø 12-20 mm | Soft wood



RPM: 18000

Correction factor:

- Hardwood = 0,8
- Chipboard without coating = 1,3

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE RH | ARTICLE LH |
|-----------|-----------|-----------|-----------|---------------------|---------------------|
| 1/4 | 1 | 2-1/2 | 1/4 | SF01.64.254.635.64R | SF01.64.254.635.64L |
| 3/8 | 1-1/4 | 3-1/4 | 1/2 | SF01.95.318.826.13R | SF01.95.318.826.13L |
| 1/2 | 1-1/4 | 3 | 1/2 | SF01.13.318.762.13R | SF01.13.318.762.13L |
| 1/2 | 2 | 4 | 1/2 | SF01.13.508.102.13R | SF01.13.508.102.13L |
| 5/8 | 2-1/8 | 4-5/16 | 5/8 | SF01.16.540.110.16R | SF01.16.540.110.16L |
| 3/4 | 4 | 6-1/2 | 3/4 | SF01.19.102.165.19R | SF01.19.102.165.19L |

Detailed information on protective coatings can be found on pages: 39-42.

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

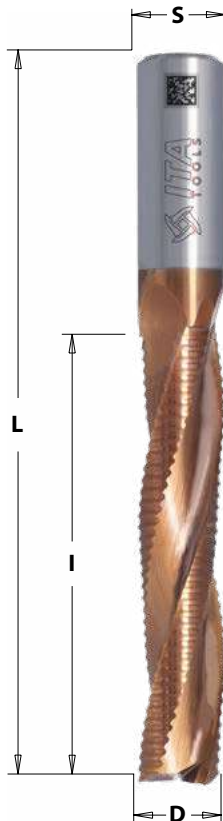
SF01.TR - 195TSR

positive

VHM

Z3

RH



Technical details:

- 3 spiral cutting edges
- Upward chip ejection
- With TiSiN coating
- Premium quality solid carbide

Application:

For cutting and milling in solid wood and wood-based materials. Can be used on machining centres, point to point machines, CNC routers.

Advantages:

High wear resistance during processing in hard materials. Extended tool life and higher machining quality.

Cutter with TiSiN coating:

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|----------------------|
| 10 | 22 | 70 | 10 | SF01.10.022.070.10TR |
| 10 | 35 | 70 | 10 | SF01.10.035.070.10TR |
| 12 | 22 | 70 | 12 | SF01.12.022.070.12TR |
| 12 | 25 | 70 | 12 | SF01.12.025.070.12TR |
| 12 | 35 | 80 | 12 | SF01.12.035.080.12TR |

Detailed information on protective coatings can be found on pages: 39-42.

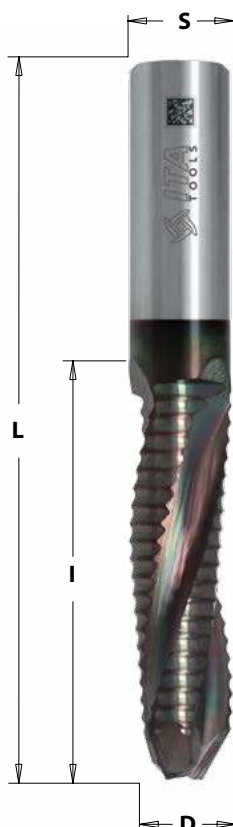
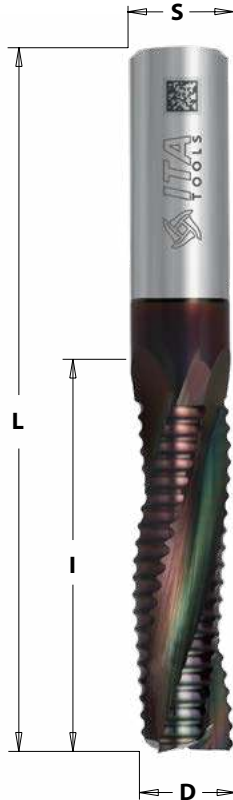
SF01.XR - 195XTR
SF30.XR - 195XTR
SF05.XR - 195XRv

VHM

Z3

RH

LH



Technical details:

- 3 spiral cutting edges
- Upward chip ejection
- With NaDia coating
- Right-hand / Left-hand rotation
- Premium quality solid carbide

Application:

For cutting and milling in solid wood and wood-based materials. Can be used on machining centres, point to point machines, CNC routers.

Advantages:

High wear resistance during processing in hard materials. Extended tool life and higher machining quality.

Solid Carbide Roughing Upcut Spiral Bits Z3:

| D mm | I mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 8 | 32 | 80 | 8 | SF01.08.032.080.08XR | SF01.08.032.080.08XL |
| 8 | 42 | 90 | 8 | SF01.08.042.090.08XR | SF01.08.042.090.08XL |
| 10 | 32 | 80 | 10 | SF01.10.032.080.10XR | SF01.10.032.080.10XL |
| 10 | 42 | 90 | 10 | SF01.10.042.090.10XR | SF01.10.042.090.10XL |
| 12 | 32 | 80 | 12 | SF01.12.032.080.12XR | SF01.12.032.080.12XL |
| 12 | 42 | 90 | 12 | SF01.12.042.090.12XR | SF01.12.042.090.12XL |
| 12 | 52 | 100 | 12 | SF01.12.052.100.12XR | SF01.12.052.100.12XL |
| 14 | 58 | 110 | 14 | SF01.14.058.110.14XR | SF01.14.058.110.14XL |
| 16 | 55 | 110 | 16 | SF01.16.055.110.16XR | SF01.16.055.110.16XL |
| 16 | 72 | 120 | 16 | SF01.16.072.120.16XR | SF01.16.072.120.16XL |
| 20 | 60 | 120 | 20 | SF01.20.060.120.20XR | SF01.20.060.120.20XL |
| 20 | 72 | 120 | 20 | SF01.20.072.120.20XR | SF01.20.072.120.20XL |
| 20 | 102 | 165 | 20 | SF01.20.102.165.20XR | SF01.20.102.165.20XL |

Solid Carbide Roughing Routers for Door-Locks:

| D mm | I mm | L ₁ mm | L mm | S mm | ARTICLE RH |
|---------|---------|----------------------|---------|---------|----------------------|
| 14 | 95 | 45 | 150 | 14 | SF30.14.095.150.14XR |
| 16 | 95 | 45 | 150 | 16 | SF30.16.095.150.16XR |
| 16 | 120 | 50 | 170 | 16 | SF30.16.120.170.16XR |

Spiral Bits Chip-breaker for 60° V-Point locksets

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|----------------------|
| 14 | 58 | 110 | 14 | SF05.14.058.110.14XR |
| 16 | 55 | 110 | 16 | SF05.16.055.110.16XR |

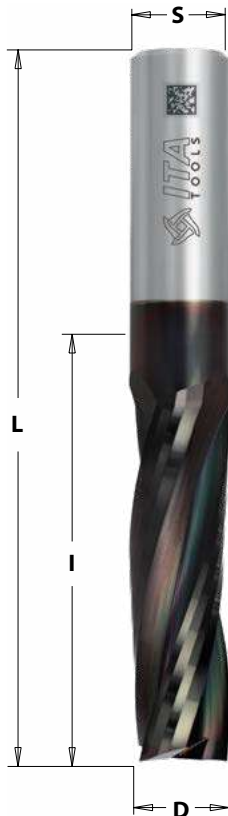
Detailed information on protective coatings can be found on pages: 39-42.

SC01.XR - 193XTR
SC51.XR - 194XTR

VHM

Z3

RH



Technical details:

- 3 spiral cutting edges
- Upward / downward chip ejection
- With NaDia coating
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood, chipboard, plywood and hard materials. Can be used on machining centres, point to point machines, CNC routers.

Advantages:

High wear resistance during processing in hard materials. Extended tool life, higher machining quality and higher possible feed speeds.

Solid Carbide Finishing Upcut Spiral Bits Z3:

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|----------------------|
| 16 | 35 | 90 | 16 | SC01.16.035.090.16XR |
| 16 | 55 | 110 | 16 | SC01.16.055.110.16XR |
| 16 | 72 | 120 | 16 | SC01.16.072.120.16XR |
| 20 | 70 | 120 | 20 | SC01.20.070.120.20XR |

Solid Carbide Finishing downcut Spiral Bits Z3:

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|----------------------|
| 16 | 55 | 110 | 16 | SC51.16.055.110.16XR |
| 16 | 72 | 120 | 16 | SC51.16.072.120.16XR |
| 20 | 70 | 120 | 20 | SC51.20.070.120.20XR |

Detailed information on protective coatings can be found on pages: 39-42.

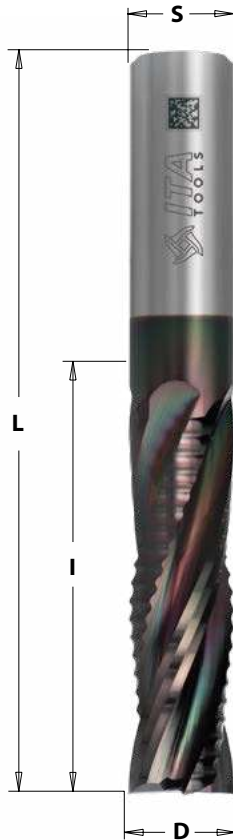
PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

SH01.XR - 197XTR

VHM

Z4

RH



Technical details:

- 2 finishing spiral cutting edges
- 2 roughing spiral cutting edges
- Upward chip ejection
- With NaDia coating
- Premium quality solid carbide

Application:

For cutting and milling in solid wood, chipboard, plywood and hard materials. Can be used on machining centres, point to point machines, CNC routers.

Advantages:

High wear resistance during processing in hard materials. Extended tool life, higher machining quality and higher possible feed speeds.

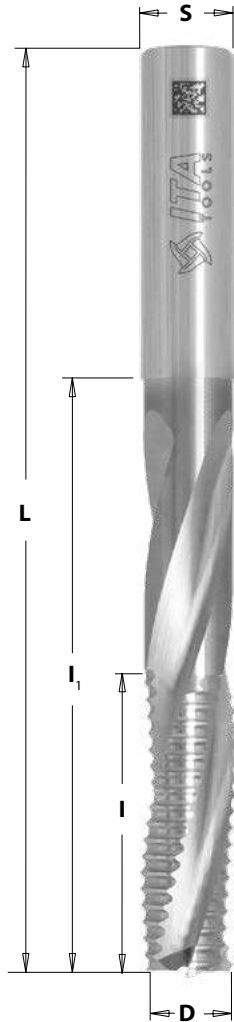
Solid Carbide Roughing Upcut Spiral Bits Z3:

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|----------------------|
| 16 | 55 | 110 | 16 | SH01.16.055.110.16XR |

Detailed information on protective coatings can be found on pages: 39-42.

SF30 - 195R
SF05 - 195Rv
 positive

VHM **Z3** **RH**



Technical details:

- 3 spiral grooved cutting edges
- Upward chip ejection
- Premium quality solid carbide

Application:

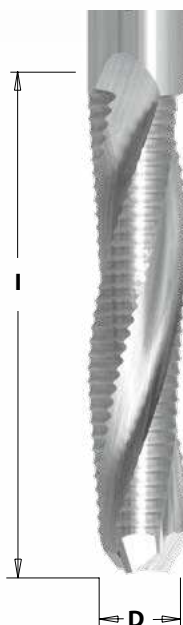
For milling pockets for a lock in solid wood and wood-like materials designed for use on CNC machines.

| D mm | I mm | I ₁ mm | L mm | S mm | ARTICLE RH |
|---------|---------|----------------------|---------|---------|---------------------|
| 12 | 45 | 95 | 150 | 12 | SF30.12.095.150.12R |
| 14 | 45 | 95 | 150 | 14 | SF30.14.095.150.14R |
| 14 | 45 | 125 | 170 | 14 | SF30.14.125.170.14R |
| 15 | 45 | 95 | 150 | 15 | SF30.15.095.150.15R |
| 16 | 45 | 95 | 150 | 16 | SF30.16.095.150.16R |
| 16 | 45 | 120 | 170 | 16 | SF30.16.120.170.16R |
| 18 | 45 | 95 | 150 | 18 | SF30.18.095.150.18R |
| 20 | 45 | 95 | 150 | 20 | SF30.20.095.150.20R |

Spiral bits chip-breaker for 60° V-point locksets:

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|---------------------|
| 14 | 58 | 110 | 14 | SF05.14.058.110.14R |
| 16 | 55 | 110 | 16 | SF05.16.055.110.16R |

Detailed information on protective coatings can be found on pages: 39-42.



PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

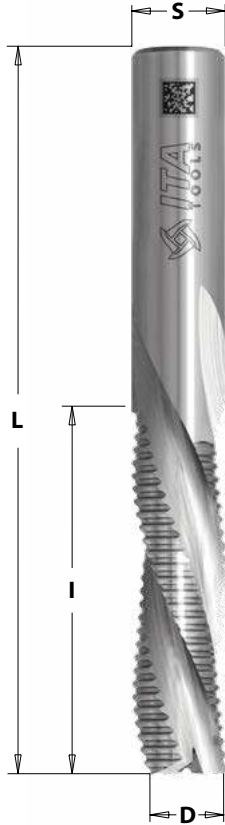
Solid Carbide Roughing Downcut Spiral Bits Z3

SF51 - 196
negative

VHM

Z3

RH



Technical details:

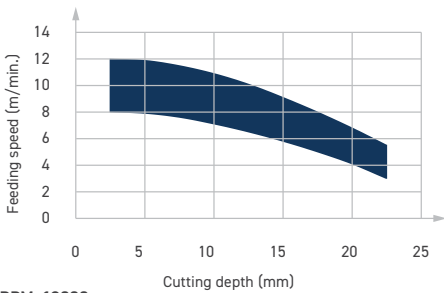
- 3 spiral grooved cutting edges
- Downward chip ejection
- Premium quality solid carbide

Application:

For cutting and milling in solid wood and wood-based materials. Can be used on machining centres, point to point machines, CNC routers.

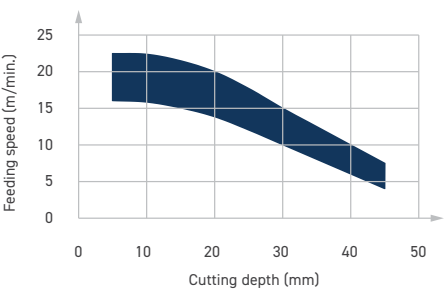
| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|---------------------|
| 8 | 32 | 80 | 8 | SF51.08.032.080.08R |
| 10 | 42 | 90 | 10 | SF51.10.042.090.10R |
| 12 | 35 | 83 | 12 | SF51.12.035.083.12R |
| 12 | 42 | 90 | 12 | SF51.12.042.090.12R |
| 12 | 52 | 100 | 12 | SF51.12.052.100.12R |
| 14 | 50 | 110 | 14 | SF51.14.050.110.14R |
| 16 | 55 | 110 | 16 | SF51.16.055.110.16R |
| 18 | 55 | 110 | 18 | SF51.18.055.110.18R |
| 20 | 60 | 120 | 20 | SF51.20.060.120.20R |
| 20 | 72 | 120 | 20 | SF51.20.072.120.20R |
| 20 | 102 | 165 | 20 | SF51.20.102.165.20R |

Ø 8-10 mm | Soft wood



RPM: 18000
Correction factor:
• Hardwood = 0,8
• Chipboard without coating = 1,3

Ø 12-20 mm | Soft wood



RPM: 18000
Correction factor:
• Hardwood = 0,8
• Chipboard without coating = 1,3

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE RH |
|-----------|-----------|-----------|-----------|---------------------|
| 1/4 | 1 | 2-1/2 | 1/4 | SF51.64.254.635.64R |
| 3/8 | 1-1/4 | 3-1/4 | 1/2 | SF51.95.318.826.13R |
| 1/2 | 1-1/4 | 3 | 1/2 | SF51.13.318.762.13R |
| 1/2 | 1-1/2 | 3-1/2 | 1/2 | SF51.13.381.889.13R |
| 1/2 | 2 | 4 | 1/2 | SF51.13.508.102.13R |
| 5/8 | 2-1/8 | 4-5/16 | 5/8 | SF51.16.540.110.16R |
| 3/4 | 4 | 6-1/2 | 3/4 | SF51.19.102.165.19R |

Detailed information on protective coatings can be found on pages: 39-42.

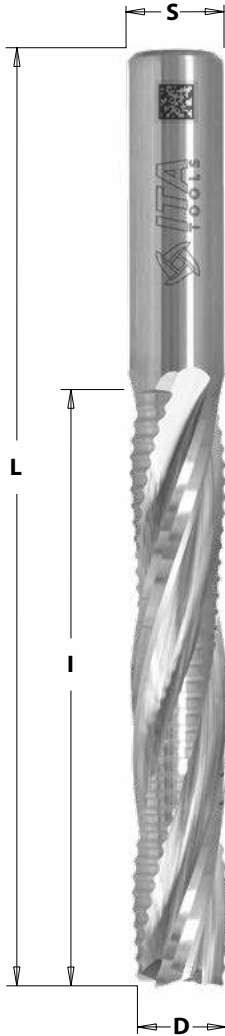
Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

SH01 - 197 positive

VHM

Z2+2

RH



Technical details:

- 2 finishing spiral cutting edges
- 2 roughing spiral cutting edges
- Upward chip ejection
- Premium quality solid carbide

Application:

For cutting and milling in solid wood and wood-based materials. Can be used on machining centres, point to point machines, CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|---------------------|
| 8 | 32 | 70 | 8 | SH01.08.032.070.08R |
| 10 | 32 | 70 | 10 | SH01.10.032.070.10R |
| 12 | 32 | 70 | 12 | SH01.12.032.070.12R |
| 12 | 42 | 90 | 12 | SH01.12.042.090.12R |
| 14 | 32 | 90 | 14 | SH01.14.032.090.14R |
| 16 | 35 | 90 | 16 | SH01.16.035.090.16R |
| 16 | 42 | 100 | 16 | SH01.16.042.100.16R |
| 16 | 55 | 110 | 16 | SH01.16.055.110.16R |
| 18 | 55 | 110 | 18 | SH01.18.055.110.18R |
| 20 | 60 | 120 | 20 | SH01.20.060.120.20R |

Detailed information on protective coatings can be found on pages: 39-42.

SL01 | SM01 | SN01 - 190

positive-negative

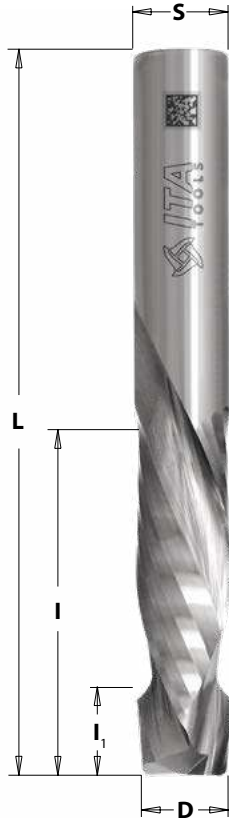
VHM

Z1+1

Z2+2

Z3+3

RH



Technical details:

- 1+1 spiral cutting edges
- 2+2 spiral cutting edges
- 3+3 spiral cutting edges
- Premium quality solid carbide
- Excellent finish

Application:

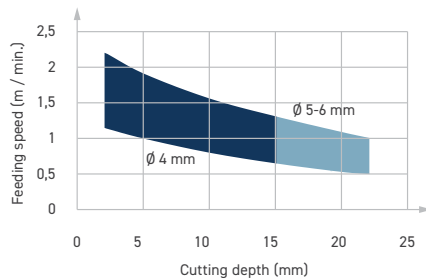
Used for cutting, copying, panel sizing and any routing applications on solid wood, wood composites, plastic materials and aluminium. Can be used on machining centres, CNC routers.

| D mm | I ₁ mm | I mm | L mm | S mm | Z | ARTICLE RH |
|------|-------------------|------|------|------|-----|---------------------|
| 3 | 5 | 20 | 60 | 3 | 1+1 | SL01.03.020.060.03R |
| 4 | 5 | 21 | 60 | 4 | 1+1 | SL01.04.021.060.04R |
| 5 | 8 | 22 | 70 | 5 | 1+1 | SL01.05.022.070.05R |
| 6 | 5 | 22 | 60 | 6 | 1+1 | SL01.06.022.060.06R |

| D mm | I ₁ mm | I mm | L mm | S mm | Z | ARTICLE RH |
|------|-------------------|------|------|------|-----|---------------------|
| 5 | 5 | 22 | 60 | 5 | 2+2 | SM01.05.022.060.05R |
| 6 | 5 | 22 | 60 | 6 | 2+2 | SM01.06.022.060.06R |
| 8 | 8 | 22 | 70 | 8 | 2+2 | SM01.08.022.070.08R |
| 10 | 8 | 22 | 70 | 10 | 2+2 | SM01.10.022.070.10R |
| 10 | 5 | 32 | 80 | 10 | 2+2 | SM01.10.032.080.10R |
| 10 | 7 | 42 | 90 | 10 | 2+2 | SM01.10.042.090.10R |
| 12 | 7 | 42 | 90 | 12 | 2+2 | SM01.12.042.090.12R |
| 12 | 7 | 52 | 100 | 12 | 2+2 | SM01.12.052.100.12R |
| 16 | 18 | 42 | 100 | 16 | 2+2 | SM01.16.042.100.16R |
| 16 | 21 | 55 | 110 | 16 | 2+2 | SM01.16.055.110.16R |
| 18 | 24 | 55 | 110 | 18 | 2+2 | SM01.18.055.110.18R |

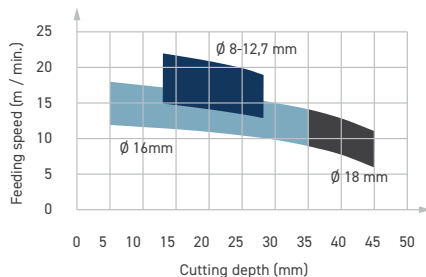
| D mm | I ₁ mm | I mm | L mm | S mm | Z | ARTICLE RH |
|------|-------------------|------|------|------|-----|---------------------|
| 12 | 9 | 25 | 83 | 12 | 3+3 | SN01.12.025.083.12R |
| 12 | 9 | 35 | 90 | 12 | 3+3 | SN01.12.035.090.12R |
| 16 | 21 | 55 | 110 | 16 | 3+3 | SN01.16.055.110.16R |
| 20 | 20 | 100 | 165 | 20 | 3+3 | SN01.20.100.165.20R |
| 25 | 10 | 105 | 165 | 25 | 3+3 | SN01.25.105.165.25R |

Ø 4-6 mm | Chipboard without coating



RPM: 24000 Correction factor: MDF = 0,8

Ø 8-18 mm | Chipboard without coating



RPM: 18000 Correction factor: MDF = 0,8

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

Solid Carbide Finishing Up & Downcut Spiral Bits

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

Sizes in inches:

| D inch | I ₁ inch | I inch | L inch | S inch | Z | ARTICLE RH |
|-----------|------------------------|-----------|-----------|-----------|-----|---------------------|
| 1/4 | 9/32 | 7/8 | 2-1/2 | 1/4 | 2+2 | SM01.64.222.635.64R |
| 3/8 | 3/16 | 7/8 | 3 | 3/8 | 2+2 | SM01.95.222.762.95R |
| 1/2 | 15/32 | 1 | 3 | 1/2 | 2+2 | SM01.13.254.762.13R |
| 1/2 | 13/64 | 7/8 | 3 | 1/2 | 2+2 | SM01.13.222.762.13R |

Sizes in inches:

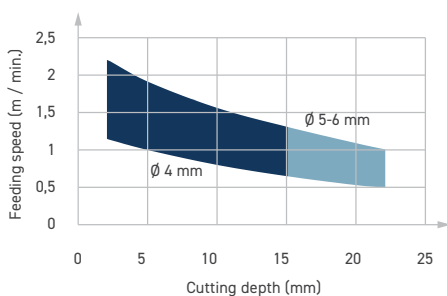
| D inch | I ₁ inch | I inch | L inch | S inch | Z | ARTICLE RH |
|-----------|------------------------|-----------|-----------|-----------|-----|---------------------|
| 3/8 | 3/16 | 7/8 | 3 | 3/8 | 3+3 | SN01.95.222.762.95R |
| 1/2 | 1/4 | 1-1/8 | 3 | 1/2 | 3+3 | SN01.13.286.762.13R |

Detailed information on protective coatings can be found on pages: 39-42.

SL01.TR | SM01.TR | SN01.TR - 190TSR positive-negative

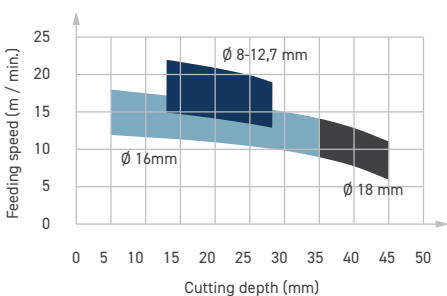


Ø 4-6 mm | Chipboard without coating



RPM: 24000 Correction factor: MDF = 0,8

Ø 8-18 mm | Chipboard without coating



RPM: 18000 Correction factor: MDF = 0,8



Technical details:

- 1+1 spiral cutting edges
- 2+2 spiral cutting edges
- 3+3 spiral cutting edges
- Premium quality solid carbide
- Excellent finish
- TiSiN coating

Application:

Used for cutting, copying, panel sizing and any routing applications on solid wood, wood composites, plastic materials and aluminium. Can be used on machining centres, point to point machines, CNC routers.

Router with TiSiN coating:

High wear resistance during processing in hard materials. Extended tool life and higher machining quality.

| D mm | I ₁ mm | I mm | L mm | S mm | Z | ARTICLE RH |
|---------|----------------------|---------|---------|---------|-----|----------------------|
| 4 | 5 | 21 | 60 | 4 | 1+1 | SL01.04.021.060.04TR |
| 5 | 8 | 22 | 70 | 5 | 1+1 | SL01.05.022.060.05TR |
| 6 | 5 | 22 | 60 | 6 | 1+1 | SL01.06.022.060.06TR |

| D mm | I ₁ mm | I mm | L mm | S mm | Z | ARTICLE RH |
|---------|----------------------|---------|---------|---------|-----|----------------------|
| 6 | 2 | 12 | 60 | 6 | 2+2 | SM01.06.012.060.06TR |
| 8 | 3 | 18 | 70 | 8 | 2+2 | SM01.08.018.070.08TR |
| 8 | 8 | 22 | 70 | 8 | 2+2 | SM01.08.022.070.08TR |
| 10 | 5 | 18 | 70 | 10 | 2+2 | SM01.10.018.070.10TR |
| 10 | 8 | 22 | 70 | 10 | 2+2 | SM01.10.022.070.10TR |
| 10 | 6 | 25 | 80 | 10 | 2+2 | SM01.10.025.080.10TR |
| 12 | 5 | 18 | 70 | 12 | 2+2 | SM01.12.018.070.12TR |

| D mm | I ₁ mm | I mm | L mm | S mm | Z | ARTICLE RH |
|---------|----------------------|---------|---------|---------|-----|----------------------|
| 12 | 6 | 25 | 83 | 12 | 3+3 | SN01.12.025.083.12TR |
| 16 | 21 | 55 | 110 | 16 | 3+3 | SN01.16.055.110.16TR |
| 20 | 20 | 100 | 165 | 20 | 3+3 | SN01.20.100.165.20TR |

Detailed information on protective coatings can be found on pages: 39-42.

Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions.

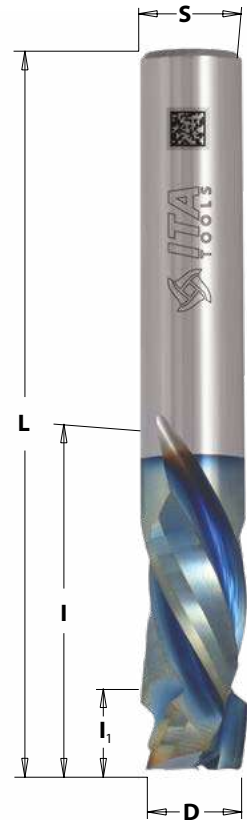
X90 positive-negative

VHM

Z2+2

Z3+3

RH



Technical details:

- Longlife solid carbide finishing up & downcut spiral bits
- 2+2 spiral cutting edges
- 3+3 spiral cutting edges
- Premium quality solid carbide
- Excellent finish

Application:

Used for cutting, copying, panel sizing and routing applications in chipboard, MDF and plywood. Can be used on machining centres, point to point machines and CNC routers.

Advantages:

High wear resistance when machining hard materials. The combination of the PLATINIUM coating and the highest quality carbide allows to maintain very sharp cutting edges, eliminate chip sticking and significantly extends the life of the tool.

Detailed information on protective coatings can be found on pages: 39-42.

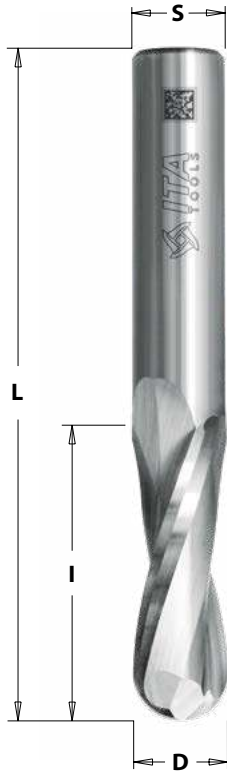
| D mm | I ₁ mm | I mm | L mm | S mm | Z | TYPE | ARTICLE RH |
|------|-------------------|------|------|------|-----|-----------|---------------------|
| 8 | 7 | 35 | 80 | 8 | 2+2 | Finishing | X90.08.035.080.08PR |
| 10 | 7 | 35 | 80 | 10 | 2+2 | Finishing | X90.10.035.080.10PR |
| 12 | 7,5 | 25 | 80 | 12 | 2+2 | Finishing | X90.12.025.080.12PR |
| 12 | 8 | 35 | 80 | 12 | 2+2 | Finishing | X90.12.035.080.12PR |
| 16 | 9 | 52 | 110 | 16 | 2+2 | Finishing | X90.16.052.110.16PR |

| D mm | I ₁ mm | I mm | L mm | S mm | Z | TYPE | ARTICLE RH |
|------|-------------------|------|------|------|-----|-----------|----------------------|
| 10 | 7 | 35 | 80 | 10 | 3+3 | Finishing | X90.10.035.080.10PR3 |
| 12 | 8 | 25 | 80 | 12 | 3+3 | Finishing | X90.12.025.080.12PR3 |
| 12 | 8 | 35 | 80 | 12 | 3+3 | Finishing | X90.12.035.080.12PR3 |
| 16 | 9 | 52 | 110 | 16 | 3+3 | Finishing | X90.16.052.110.16PR3 |

| D mm | I ₁ mm | I mm | L mm | S mm | Z | TYPE | ARTICLE RH |
|------|-------------------|------|------|------|-----|----------|----------------------|
| 8 | 7 | 35 | 80 | 8 | 2+2 | Roughing | X90.08.035.080.08PRz |
| 10 | 7 | 35 | 80 | 10 | 2+2 | Roughing | X90.10.035.080.10PRz |
| 12 | 8 | 35 | 80 | 12 | 2+2 | Roughing | X90.12.035.080.12PRz |
| 16 | 9 | 52 | 110 | 16 | 2+2 | Roughing | X90.16.052.110.16PRz |

SI01 - 199
positive

VHM **Z2** **RH**



Technical details:

- 2 spiral cutting edges
- Upward chip ejection
- Premium quality solid carbide
- Excellent finish

Application:

For cutting and milling in solid wood and wood-based materials.
Can be used on machining centres, point to point machines, CNC routers.

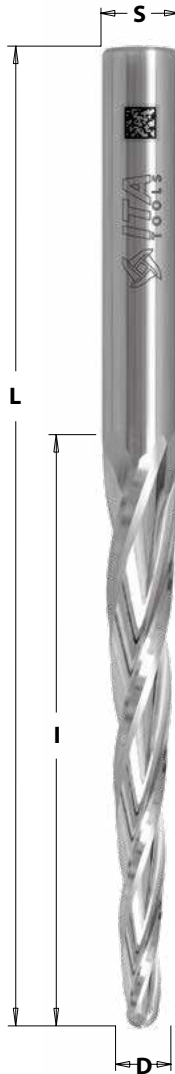
| D mm | R mm | I mm | L mm | S mm | Z | ARTICLE RH |
|---------|---------|---------|---------|---------|---|---------------------|
| 6 | 3 | 27 | 70 | 6 | 2 | SI01.06.027.070.06R |
| 8 | 4 | 32 | 80 | 8 | 2 | SI01.08.032.080.08R |
| 10 | 5 | 32 | 80 | 10 | 2 | SI01.10.032.080.10R |
| 12 | 6 | 35 | 80 | 12 | 2 | SI01.12.035.080.12R |
| 16 | 8 | 55 | 110 | 16 | 2 | SI01.16.055.110.16R |

Detailed information on protective coatings can be found on pages: 39-42.

SQ29
positive

VHM

RH



Technical details:

- Tapered ball nose cutter
- Polished chip flute prevents material sticking
- Upward chip ejection
- Special type of carbide with increased tool life
- Coating possible

Application:

For cutting and milling in materials such as modeling board, MDF, aluminum. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | R mm | α | ARTICLE |
|---------|---------|---------|---------|---------|----------|---------------------|
| 0,8 | 25 | 70 | 6 | 0,4 | 5,5° | SQ29.01.025.070.06R |
| 0,8 | 30 | 80 | 6,35 | 0,4 | 6,2° | SQ29.01.030.080.64R |
| 1,6 | 25 | 70 | 6 | 0,8 | 4,5° | SQ29.02.025.070.06R |
| 1,6 | 50 | 80 | 6,35 | 0,8 | 5,5° | SQ29.02.050.080.64R |
| 1,6 | 30 | 80 | 8 | 0,8 | 5,5° | SQ29.02.030.080.08R |
| 2 | 80 | 120 | 12 | 1 | 3° | SQ29.02.080.120.12R |
| 3,2 | 25,4 | 80 | 6 | 1,6 | 3,6° | SQ29.03.025.080.06R |
| 3,2 | 80 | 80 | 6,35 | 1,6 | 3,6° | SQ29.03.080.080.64R |
| 3,2 | 50 | 90 | 8 | 1,6 | 2,5° | SQ29.03.050.090.08R |
| 6 | 50,8 | 110 | 12 | 3 | 3,2° | SQ29.06.051.110.12R |
| 6 | 90 | 150 | 12 | 3 | 3° | SQ29.06.090.150.12R |
| 6,4 | 50,8 | 110 | 12,7 | 3,2 | 3,2° | SQ29.06.051.110.13R |
| 12 | 85 | 150 | 12 | 6 | 3° | SQ29.12.085.150.12R |

Detailed information on protective coatings can be found on pages: 39-42.

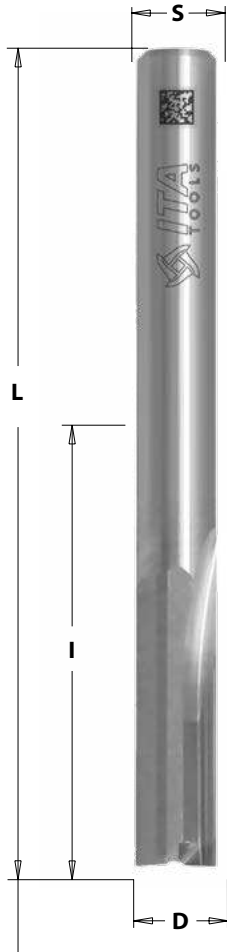
PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

SY01 - 912 straight

VHM

Z2

RH



Technical details:

- Two edge blade cutter, straight
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge sideways
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

Used for cutting, copying, panel sizing, and routing applications on solid wood and wood-based materials like plywood, MDF, and chipboard. Suitable for use in machining centers, point-to-point machines, and CNC routers.

| D mm | I mm | L mm | S mm | ARTICLE RH |
|---------|---------|---------|---------|---------------------|
| 3 | 10 | 60 | 6 | SY01.03.010.060.06R |
| 4 | 15 | 60 | 6 | SY01.04.015.060.06R |
| 5 | 15 | 60 | 6 | SY01.05.015.060.06R |
| 6 | 20 | 60 | 6 | SY01.06.020.060.06R |
| 6 | 25 | 60 | 6 | SY01.06.025.060.06R |
| 8 | 25 | 70 | 8 | SY01.08.025.070.08R |
| 8 | 30 | 70 | 8 | SY01.08.030.070.08R |
| 10 | 21 | 70 | 12 | SY01.10.021.070.12R |
| 10 | 32 | 80 | 12 | SY01.10.032.080.12R |

Detailed information on protective coatings can be found on pages: 39-42.

Chapter

VHM & Diamond Tools for Composites, PVC & ALU



ST01 series
p. 67



ST51 series
p. 68



ST28 series
p. 69



ST36 series
p. 70



SP01 series
p. 71



SP51 series
p. 72



SQ01 series
p. 73



SQ31 series
p. 74



SR01 series
p. 75



SR33 series
p. 76



CPS, CPU series
p. 77-78



CSS, CVS series
p. 79-80



CNS, CNV,
CNR series
p. 81



SQ32 series
p. 82



SR34 series
p. 83



SR02 series
p. 84



FVH series
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SY26 series
p. 86



SY26.XR series
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FVH series
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SW03 series
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FDT, FDH series
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DT1/2/3/5 series
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Knives for Cutting
Plotters
p. 92



P.C.D. & H.M. TOOLS

SOLID CARBIDE
ROUTER BITS

P.C.D. & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGE-BANDING
MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

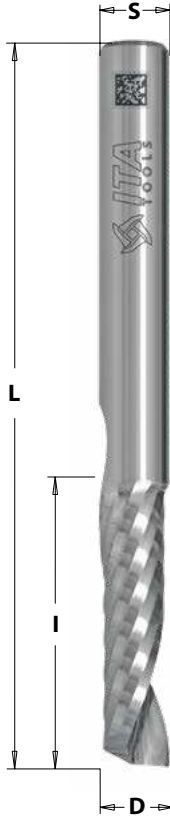
STARTER KIT

ST01 - 198RP positive

VHM

Z1

RH



Technical details:

- Single blade cutter, positive
- Perfect finishing of cutting edge - the polished chip groove
- Upward chip ejection
- Premium quality solid carbide
- Possibility of using variety coatings

Application:

For cutting and milling in plastics. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 2 | 6 | 60 | 6 | ST01.02.006.060.06R |
| 3 | 6 | 60 | 3 | ST01.03.006.060.03R |
| 3 | 6 | 60 | 6 | ST01.03.006.060.06R |
| 3 | 12 | 60 | 3 | ST01.03.012.060.03R |
| 3 | 12 | 60 | 6 | ST01.03.012.060.06R |
| 4 | 8 | 60 | 4 | ST01.04.008.060.04R |
| 4 | 8 | 60 | 6 | ST01.04.008.060.06R |
| 4 | 12 | 60 | 4 | ST01.04.012.060.04R |
| 4 | 12 | 60 | 6 | ST01.04.012.060.06R |
| 4 | 22 | 60 | 6 | ST01.04.022.060.06R |
| 5 | 15 | 60 | 5 | ST01.05.015.060.05R |
| 5 | 15 | 60 | 6 | ST01.05.015.060.06R |
| 6 | 12 | 60 | 6 | ST01.06.012.060.06R |
| 6 | 22 | 60 | 6 | ST01.06.022.060.06R |
| 8 | 22 | 60 | 8 | ST01.08.022.060.08R |
| 8 | 32 | 80 | 8 | ST01.08.032.080.08R |
| 10 | 35 | 80 | 10 | ST01.10.035.080.10R |
| 10 | 42 | 80 | 10 | ST01.10.042.080.10R |
| 12 | 35 | 80 | 12 | ST01.12.035.080.12R |
| 12 | 42 | 90 | 12 | ST01.12.042.090.12R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 1/4 | 2 1/2 | 1/8 | ST01.32.635.635.32R |
| 1/8 | 1/2 | 2 1/2 | 1/8 | ST01.32.127.635.32R |
| 3/16 | 5/16 | 2 1/2 | 3/16 | ST01.48.794.635.48R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | ST01.48.159.635.48R |
| 1/4 | 1/2 | 2 1/2 | 1/4 | ST01.64.127.635.64R |
| 1/4 | 1 | 2 1/2 | 1/4 | ST01.64.254.635.64R |
| 3/8 | 1 | 2 1/2 | 3/8 | ST01.95.254.635.95R |
| 1/2 | 1 1/2 | 3 1/2 | 1/2 | ST01.13.381.889.13R |

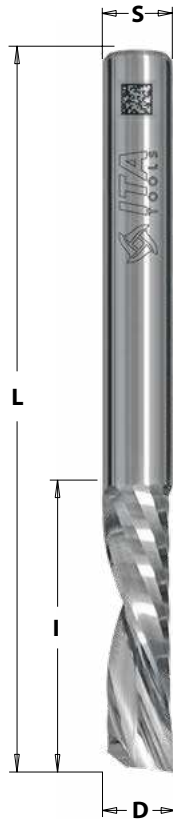
Detailed information on protective coatings can be found on pages: 39-42.

ST51 -198RPn negative

VHM

Z1

RH



Technical details:

- Single blade cutter, negative
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge downwards
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in plastics. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 2 | 6 | 60 | 6 | ST51.02.006.060.06R |
| 3 | 6 | 60 | 3 | ST51.03.006.060.03R |
| 3 | 6 | 60 | 6 | ST51.03.006.060.06R |
| 3 | 12 | 60 | 3 | ST51.03.012.060.03R |
| 3 | 12 | 60 | 6 | ST51.03.012.060.06R |
| 4 | 8 | 60 | 4 | ST51.04.008.060.04R |
| 4 | 8 | 60 | 6 | ST51.04.008.060.06R |
| 4 | 12 | 60 | 4 | ST51.04.012.060.04R |
| 4 | 12 | 60 | 6 | ST51.04.012.060.06R |
| 5 | 15 | 60 | 5 | ST51.05.015.060.05R |
| 5 | 15 | 60 | 6 | ST51.05.015.060.06R |
| 6 | 12 | 60 | 6 | ST51.06.012.060.06R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 1/4 | 2 1/2 | 1/8 | ST51.32.635.635.32R |
| 1/8 | 1/2 | 2 1/2 | 1/8 | ST51.32.127.635.32R |
| 3/16 | 5/16 | 2 1/2 | 3/16 | ST51.48.794.635.48R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | ST51.48.159.635.48R |
| 1/4 | 1/2 | 2 1/2 | 1/4 | ST51.64.127.635.64R |
| 1/4 | 1 | 2 1/2 | 1/4 | ST51.64.254.635.64R |

Detailed information on protective coatings can be found on pages: 39-42.

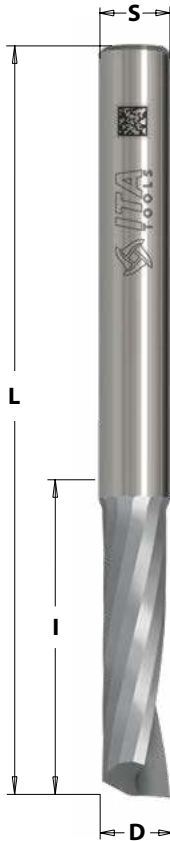
PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

ST28 - 198RPs positive

VHM

Z1

RH



Technical details:

- Single blade cutter with a minimum spiral angle, positive,
- For thin materials from 1mm to 8mm
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge upwards
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in plastics. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 2 | 6 | 60 | 6 | ST28.02.006.060.06R |
| 3 | 8 | 60 | 3 | ST28.03.008.060.03R |
| 3 | 12 | 60 | 3 | ST28.03.012.060.03R |
| 3 | 12 | 60 | 6 | ST28.03.012.060.06R |
| 4 | 8 | 60 | 4 | ST28.04.008.060.04R |
| 4 | 12 | 60 | 4 | ST28.04.012.060.04R |
| 4 | 12 | 60 | 6 | ST28.04.012.060.06R |
| 5 | 8 | 60 | 5 | ST28.05.008.060.05R |
| 5 | 12 | 60 | 6 | ST28.05.012.060.06R |
| 6 | 12 | 60 | 6 | ST28.06.012.060.06R |
| 6 | 22 | 60 | 6 | ST28.06.022.060.06R |
| 8 | 12 | 60 | 8 | ST28.08.012.060.08R |
| 10 | 22 | 60 | 10 | ST28.10.022.060.10R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 5/16 | 2 1/2 | 1/8 | ST28.32.794.635.32R |
| 3/16 | 5/16 | 2 1/2 | 3/16 | ST28.48.794.635.48R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | ST28.48.159.635.48R |
| 1/4 | 1/2 | 2 1/2 | 1/4 | ST28.64.127.635.64R |
| 1/4 | 1 | 2 1/2 | 1/4 | ST28.64.254.635.64R |
| 3/8 | 1 | 2 1/2 | 3/8 | ST28.95.254.635.95R |

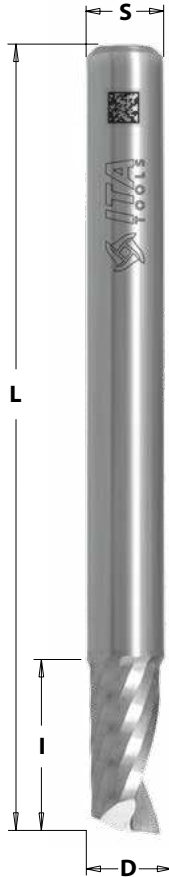
Detailed information on protective coatings can be found on pages: 39-42.

ST36 - 198RPf Super Finish positive

VHM

Z1

RH



Technical details:

- Router bit for perfect edge finishing of polymethyl methacrylate - acrylic, plexiglass, plexi
- Single flute cutter
- Polished chip flute prevents material sticking
- Upward chip ejection
- Special type of carbide with increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in plastics. For use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 2 | 7 | 60 | 6 | ST36.02.007.060.06R |
| 3 | 7 | 60 | 6 | ST36.03.007.060.06R |
| 3 | 12 | 60 | 6 | ST36.03.012.060.06R |
| 4 | 8 | 60 | 6 | ST36.04.008.060.06R |
| 4 | 13 | 60 | 6 | ST36.04.013.060.06R |
| 5 | 15 | 60 | 6 | ST36.05.015.060.06R |
| 6 | 12 | 60 | 6 | ST36.06.012.60.060R |
| 6 | 22 | 60 | 6 | ST36.06.022.060.06R |
| 8 | 32 | 80 | 8 | ST36.08.032.080.08R |

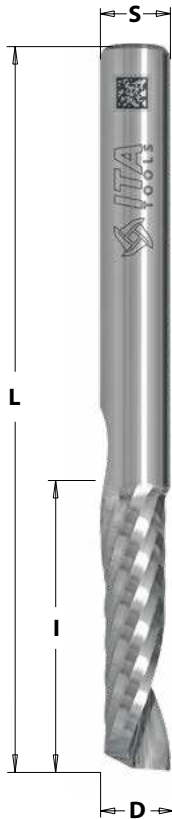
Detailed information on protective coatings can be found on pages: 39-42.

SP01 - 198Ra
positive

VHM

Z1

RH



Technical details:

- Single blade cutter, positive,
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in aluminum, dibond composite, an alternative to plastics processing. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 3 | 6 | 60 | 3 | SP01.03.006.060.03R |
| 3 | 6 | 60 | 6 | SP01.03.006.060.06R |
| 3 | 12 | 60 | 3 | SP01.03.012.060.03R |
| 3 | 12 | 60 | 6 | SP01.03.012.060.06R |
| 4 | 8 | 60 | 4 | SP01.04.008.060.04R |
| 4 | 8 | 60 | 6 | SP01.04.008.060.06R |
| 4 | 12 | 60 | 4 | SP01.04.012.060.04R |
| 4 | 12 | 60 | 6 | SP01.04.012.060.06R |
| 4 | 22 | 60 | 6 | SP01.04.022.060.06R |
| 5 | 15 | 60 | 5 | SP01.05.015.060.05R |
| 5 | 15 | 60 | 6 | SP01.05.015.060.06R |
| 6 | 12 | 60 | 6 | SP01.06.012.060.06R |
| 6 | 22 | 60 | 6 | SP01.06.022.060.06R |
| 8 | 22 | 60 | 8 | SP01.08.022.060.08R |
| 8 | 32 | 80 | 8 | SP01.08.032.080.08R |
| 10 | 35 | 80 | 10 | SP01.10.035.080.10R |
| 10 | 42 | 80 | 10 | SP01.10.042.080.10R |
| 12 | 35 | 80 | 12 | SP01.12.035.080.12R |
| 12 | 42 | 90 | 12 | SP01.12.042.090.12R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 1/4 | 2 1/2 | 1/8 | SP01.32.635.635.32R |
| 1/8 | 1/2 | 2 1/2 | 1/8 | SP01.32.127.635.32R |
| 3/16 | 5/16 | 2 1/2 | 3/16 | SP01.48.794.635.48R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | SP01.48.159.635.48R |
| 1/4 | 1/2 | 2 1/2 | 1/4 | SP01.64.127.635.64R |
| 1/4 | 1 | 2 1/2 | 1/4 | SP01.64.254.635.64R |
| 3/8 | 1 | 2 1/2 | 3/8 | SP01.95.254.635.95R |
| 1/2 | 1 1/2 | 3 1/2 | 1/2 | SP01.13.381.889.13R |

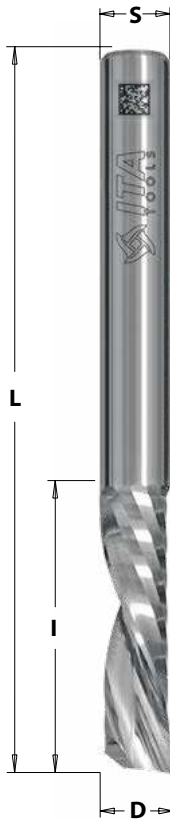
Detailed information on protective coatings can be found on pages: 39-42.

SP51 - 198Ran negative

VHM

Z1

RH



Technical details:

- Single blade cutter, negative
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge downwards
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in plastics, dibond composite. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 3 | 6 | 60 | 3 | SP51.03.006.060.03R |
| 3 | 6 | 60 | 6 | SP51.03.006.060.06R |
| 3 | 12 | 60 | 3 | SP51.03.012.060.03R |
| 3 | 12 | 60 | 6 | SP51.03.012.060.06R |
| 4 | 8 | 60 | 4 | SP51.04.008.060.04R |
| 4 | 8 | 60 | 6 | SP51.04.008.060.06R |
| 4 | 12 | 60 | 4 | SP51.04.012.060.04R |
| 4 | 12 | 60 | 6 | SP51.04.012.060.06R |
| 4 | 22 | 60 | 6 | SP51.04.022.060.06R |
| 5 | 15 | 60 | 5 | SP51.05.015.060.05R |
| 5 | 15 | 60 | 6 | SP51.05.015.060.06R |
| 6 | 12 | 60 | 6 | SP51.06.012.060.06R |
| 6 | 22 | 60 | 6 | SP51.06.022.060.06R |
| 8 | 22 | 60 | 8 | SP51.08.022.060.08R |
| 8 | 32 | 80 | 8 | SP51.08.032.080.08R |
| 10 | 35 | 80 | 10 | SP51.10.035.080.10R |
| 10 | 42 | 80 | 10 | SP51.10.042.080.10R |
| 12 | 35 | 80 | 12 | SP51.12.035.080.12R |
| 12 | 42 | 90 | 12 | SP51.12.042.090.12R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 1/4 | 2 1/2 | 1/8 | SP51.32.635.635.32R |
| 1/8 | 1/2 | 2 1/2 | 1/8 | SP51.32.127.635.32R |
| 3/16 | 5/16 | 2 1/2 | 3/16 | SP51.48.794.635.48R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | SP51.48.159.635.48R |
| 1/4 | 1/2 | 2 1/2 | 1/4 | SP51.64.127.635.64R |
| 1/4 | 1 | 2 1/2 | 1/4 | SP51.64.254.635.64R |
| 3/8 | 1 | 2 1/2 | 3/8 | SP51.95.254.635.95R |
| 1/2 | 1 1/2 | 3 1/2 | 1/2 | SP51.13.381.889.13R |

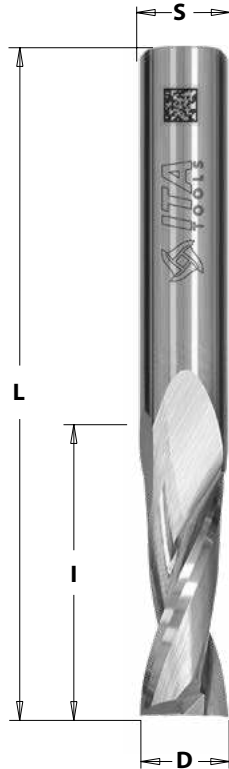
Detailed information on protective coatings can be found on pages: 39-42.

SQ01 - 186Ra positive

VHM

Z2

RH



Technical details:

- Two edge blade cutter, positive,
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in aluminum and plastics. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 3 | 10 | 60 | 3 | SQ01.03.010.060.03R |
| 3 | 12 | 60 | 6 | SQ01.03.012.060.06R |
| 4 | 10 | 60 | 4 | SQ01.04.010.060.04R |
| 4 | 12 | 60 | 6 | SQ01.04.012.060.06R |
| 5 | 12 | 60 | 5 | SQ01.05.012.060.05R |
| 5 | 22 | 60 | 5 | SQ01.05.022.060.05R |
| 5 | 22 | 60 | 6 | SQ01.05.022.060.06R |
| 6 | 12 | 60 | 6 | SQ01.06.012.060.06R |
| 6 | 22 | 60 | 6 | SQ01.06.022.060.06R |
| 8 | 22 | 60 | 8 | SQ01.08.022.060.08R |
| 8 | 35 | 80 | 8 | SQ01.08.035.080.08R |
| 10 | 22 | 60 | 10 | SQ01.10.022.060.10R |
| 10 | 45 | 100 | 10 | SQ01.10.045.100.10R |
| 12 | 25 | 70 | 12 | SQ01.12.025.070.12R |
| 12 | 42 | 90 | 12 | SQ01.12.042.090.12R |
| 16 | 35 | 80 | 16 | SQ01.16.035.080.16R |
| 16 | 55 | 110 | 16 | SQ01.16.055.110.16R |
| 20 | 45 | 90 | 20 | SQ01.20.045.090.20R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 1/2 | 2 1/2 | 1/8 | SQ01.32.127.635.32R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | SQ01.48.159.635.48R |
| 1/4 | 1 | 2 1/2 | 1/4 | SQ01.64.254.635.64R |
| 3/8 | 1 | 2 1/2 | 3/8 | SQ01.95.254.635.95R |
| 1/2 | 1 1/2 | 3 1/4 | 1/2 | SQ01.13.381.826.13R |
| 5/8 | 1 1/2 | 3 1/2 | 5/8 | SQ01.16.381.889.16R |
| 3/4 | 1 3/4 | 3 1/2 | 3/4 | SQ01.19.445.889.19R |

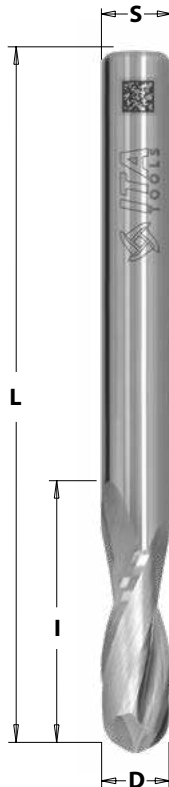
Detailed information on protective coatings can be found on pages: 39-42.

SQ31 - 199Ra positive

VHM

Z2

RH



Technical details:

- Spherical double-edge cutter, positive
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in aluminum and plastics. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | R mm | ARTICLE |
|---------|---------|---------|---------|---------|---------------------|
| 3 | 10 | 60 | 3 | 1,5 | SQ31.03.010.060.03R |
| 3 | 10 | 60 | 6 | 1,5 | SQ31.03.010.060.06R |
| 4 | 10 | 60 | 4 | 2 | SQ31.04.010.060.04R |
| 4 | 12 | 60 | 6 | 2 | SQ31.04.012.060.06R |
| 5 | 12 | 60 | 5 | 2,5 | SQ31.05.012.060.05R |
| 6 | 22 | 60 | 6 | 3 | SQ31.06.022.060.06R |
| 8 | 22 | 60 | 8 | 4 | SQ31.08.022.060.08R |
| 10 | 22 | 60 | 10 | 5 | SQ31.10.022.060.10R |
| 10 | 45 | 100 | 10 | 5 | SQ31.10.045.100.10R |
| 12 | 25 | 70 | 12 | 6 | SQ31.12.025.070.12R |
| 12 | 42 | 90 | 12 | 6 | SQ31.12.042.090.12R |
| 16 | 35 | 90 | 16 | 8 | SQ31.16.035.090.16R |

Sizes in inches:

| D inch | I inch | L inch | S inch | R inch | ARTICLE |
|-----------|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 1/2 | 2 1/2 | 1/8 | 1/16 | SQ31.32.953.635.32R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | 3/32 | SQ31.48.159.635.48R |
| 1/4 | 1 | 2 1/2 | 1/4 | 1/8 | SQ31.64.254.635.64R |
| 3/8 | 1 | 2 1/2 | 3/8 | 3/16 | SQ31.95.254.635.95R |
| 1/2 | 1 | 3 1/4 | 1/2 | 1/4 | SQ31.13.254.826.13R |
| 5/8 | 1 1/2 | 3 1/2 | 5/8 | 5/16 | SQ31.16.381.889.16R |
| 3/4 | 1 3/4 | 3 1/2 | 3/4 | 3/8 | SQ31.19.445.889.19R |

Detailed information on protective coatings can be found on pages: 39-42.

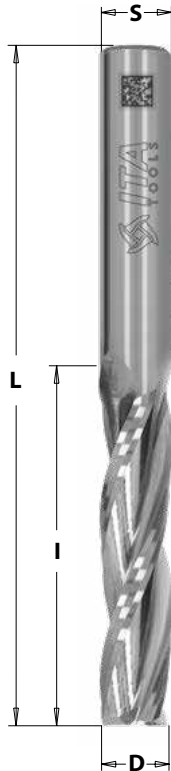
PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGE BANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

SR01 - 193Ra
positive

VHM

Z3

RH



Technical details:

- Three edge blade cutter, positive,
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in aluminum and plastics. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 3 | 8 | 60 | 3 | SR01.03.008.060.03R |
| 3 | 8 | 60 | 6 | SR01.03.008.060.06R |
| 4 | 12 | 60 | 4 | SR01.04.012.060.04R |
| 4 | 12 | 60 | 6 | SR01.04.012.060.06R |
| 5 | 12 | 60 | 5 | SR01.05.012.060.05R |
| 6 | 22 | 60 | 6 | SR01.06.022.060.06R |
| 8 | 35 | 80 | 8 | SR01.08.035.080.08R |
| 10 | 32 | 80 | 10 | SR01.10.032.080.10R |
| 12 | 32 | 90 | 12 | SR01.12.032.090.12R |
| 16 | 35 | 90 | 16 | SR01.16.035.090.16R |
| 16 | 55 | 110 | 16 | SR01.16.055.110.16R |
| 20 | 32 | 80 | 20 | SR01.20.032.080.20R |
| 20 | 60 | 120 | 20 | SR01.20.060.120.20R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 3/8 | 2 1/2 | 1/8 | SR01.32.953.635.32R |
| 3/16 | 5/8 | 2 1/2 | 3/16 | SR01.48.159.635.48R |
| 1/4 | 1 | 2 1/2 | 1/4 | SR01.64.254.635.64R |
| 3/8 | 1 1/4 | 3 1/4 | 3/8 | SR01.95.318.826.95R |
| 1/2 | 1 1/4 | 3 1/4 | 1/2 | SR01.13.318.826.13R |
| 5/8 | 1 1/2 | 3 1/2 | 5/8 | SR01.16.381.889.16R |
| 3/4 | 1 3/4 | 3 1/2 | 3/4 | SR01.19.445.889.19R |

Detailed information on protective coatings can be found on pages: 39-42.

SR33 - 195Ra positive

VHM

Z3

RH



Technical details:

- Three edge blade cutter, positive,
- Perfect roughting of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in aluminum and plastics. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 6 | 22 | 60 | 6 | SR33.06.022.060.06R |
| 8 | 32 | 70 | 8 | SR33.08.032.070.08R |
| 10 | 32 | 80 | 10 | SR33.10.032.080.10R |
| 12 | 32 | 80 | 12 | SR33.12.032.080.12R |
| 16 | 32 | 90 | 16 | SR33.16.032.090.16R |
| 16 | 55 | 110 | 16 | SR33.16.055.110.16R |
| 20 | 32 | 80 | 20 | SR33.20.032.080.20R |
| 20 | 60 | 120 | 20 | SR33.20.060.120.20R |
| 25 | 35 | 80 | 25 | SR33.25.035.080.20R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/4 | 1 | 2 1/2 | 1/4 | SR33.64.254.635.64R |
| 3/8 | 1 1/4 | 3 1/4 | 3/8 | SR33.95.318.826.95R |
| 1/2 | 1 1/4 | 3 1/4 | 1/2 | SR33.13.318.826.13R |
| 5/8 | 1 1/2 | 3 1/2 | 5/8 | SR33.16.381.889.16R |
| 3/4 | 1 3/4 | 3 1/2 | 3/4 | SR33.19.445.889.19R |

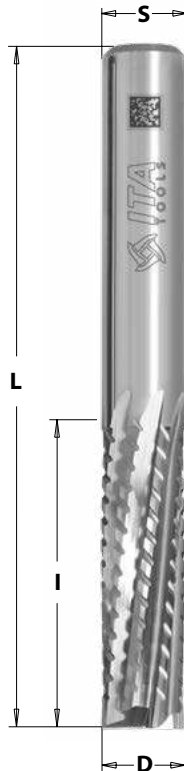
Detailed information on protective coatings can be found on pages: 39-42.

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGE BANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

CPS
positive

VHM

RH



Technical details:

- Multi-edge geometry, positive
- Perfect finishing of cutting edge
- Chip discharge upwards
- Geometry adapted to the processing of composites, preventing delamination and pulling out of glass and carbon fibers
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in composite materials GFK, CFK, textolite, composite matrix, HPL, honeycomb. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|--------------------|
| 3 | 10 | 45 | 3 | CPS.03.010.045.03R |
| 3 | 10 | 60 | 6 | CPS.03.010.060.06R |
| 4 | 15 | 60 | 4 | CPS.04.015.060.04R |
| 4 | 15 | 60 | 6 | CPS.04.015.060.06R |
| 5 | 15 | 60 | 5 | CPS.05.015.060.05R |
| 6 | 25 | 70 | 6 | CPS.06.025.070.06R |
| 8 | 30 | 80 | 8 | CPS.08.030.080.08R |
| 10 | 35 | 80 | 10 | CPS.10.035.080.10R |
| 12 | 40 | 90 | 12 | CPS.12.040.090.12R |

Sizes in inches:

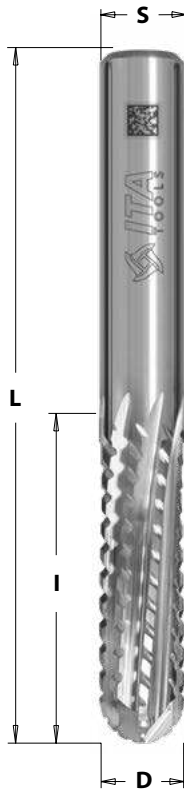
| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|--------------------|
| 1/8 | 1/2 | 2 | 1/8 | CPS.32.127.508.32R |
| 3/16 | 3/4 | 2 1/2 | 3/16 | CPS.48.191.635.48R |
| 1/4 | 1 | 3 | 1/4 | CPS.64.254.762.64R |
| 3/8 | 1 1/4 | 3 1/2 | 3/8 | CPS.95.318.889.95R |
| 1/2 | 1 3/8 | 3 1/2 | 1/2 | CPS.13.349.889.13R |

Detailed information on protective coatings can be found on pages: 39-42.

CPU
positive

VHM

RH



Technical details:

- Spherical multi-edge geometry, positive
- Perfect finishing of cutting edge
- Chip discharge upwards
- Geometry adapted to the processing of composites, preventing delamination and pulling out of glass and carbon fibers
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in composite materials GFK, CFK, textolite, composite matrix, HPL, honeycomb. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | R | ARTICLE |
|---------|---------|---------|---------|-----|--------------------|
| 3 | 10 | 45 | 3 | 1,5 | CPU.03.010.045.03R |
| 3 | 10 | 60 | 6 | 1,5 | CPU.03.010.060.06R |
| 4 | 15 | 60 | 4 | 2 | CPU.04.015.060.04R |
| 4 | 15 | 60 | 6 | 2 | CPU.04.015.060.06R |
| 5 | 15 | 60 | 5 | 2,5 | CPU.05.015.060.05R |
| 6 | 20 | 70 | 6 | 3 | CPU.06.020.070.06R |
| 8 | 30 | 80 | 8 | 4 | CPU.08.030.080.08R |
| 10 | 35 | 80 | 10 | 5 | CPU.10.035.080.10R |
| 12 | 40 | 90 | 12 | 6 | CPU.12.040.090.12R |

Sizes in inches:

| D inch | I inch | L inch | S inch | R inch | ARTICLE |
|-----------|-----------|-----------|-----------|-----------|--------------------|
| 1/8 | 1/2 | 2 | 1/8 | 1/16 | CPU.32.127.508.32R |
| 3/16 | 3/4 | 2 1/2 | 3/16 | 3/32 | CPU.48.191.635.48R |
| 1/4 | 1 | 3 | 1/4 | 1/8 | CPU.64.254.762.64R |
| 3/8 | 1 1/4 | 3 1/2 | 3/8 | 3/16 | CPU.95.318.889.95R |
| 1/2 | 1 3/8 | 3 1/2 | 1/2 | 1/4 | CPU.13.349.889.13R |

Detailed information on protective coatings can be found on pages: 39-42.

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGE BANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

CSS
straight

VHM

RH



Technical details:

- Multi-edge geometry, straight
- Perfect finishing of cutting edge
- Chip discharge sideways
- Geometry adapted to the processing of composites, preventing delamination and pulling out of glass and carbon fibers
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in composite materials GFK, CFK, textolite, composite matrix, HPL, honeycomb. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|--------------------|
| 3 | 10 | 45 | 3 | CSS.03.010.045.03R |
| 3 | 10 | 60 | 6 | CSS.03.010.060.06R |
| 4 | 15 | 60 | 4 | CSS.04.015.060.04R |
| 4 | 15 | 60 | 6 | CSS.04.015.060.06R |
| 5 | 15 | 60 | 5 | CSS.05.015.060.05R |
| 6 | 25 | 70 | 6 | CSS.06.025.070.06R |
| 8 | 30 | 80 | 8 | CSS.08.030.080.08R |
| 10 | 35 | 80 | 10 | CSS.10.035.080.10R |
| 12 | 40 | 90 | 12 | CSS.12.040.090.12R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|--------------------|
| 1/8 | 1/2 | 2 | 1/8 | CSS.32.127.508.32R |
| 3/16 | 3/4 | 2 1/2 | 3/16 | CSS.48.191.635.48R |
| 1/4 | 1 | 3 | 1/4 | CSS.64.254.762.64R |
| 3/8 | 1 1/4 | 3 1/2 | 3/8 | CSS.95.318.889.95R |
| 1/2 | 1 3/8 | 3 1/2 | 1/2 | CSS.13.349.889.13R |

Detailed information on protective coatings can be found on pages: 39-42.

CVS
negative

VHM

RH



Technical details:

- Multi-edge geometry, negative
- Perfect finishing of cutting edge
- Chip discharge downwards
- Geometry adapted to the processing of composites, preventing delamination and pulling out of glass and carbon fibers
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in composite materials GFK, CFK, textolite, composite matrix, HPL, honeycomb. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|--------------------|
| 3 | 10 | 45 | 3 | CVS.03.010.045.03R |
| 3 | 10 | 60 | 6 | CVS.03.010.060.06R |
| 4 | 15 | 60 | 4 | CVS.04.015.060.04R |
| 4 | 15 | 60 | 6 | CVS.04.015.060.06R |
| 5 | 15 | 60 | 5 | CVS.05.015.060.05R |
| 6 | 20 | 70 | 6 | CVS.06.020.070.06R |
| 8 | 30 | 80 | 8 | CVS.08.030.080.08R |
| 10 | 35 | 80 | 10 | CVS.10.035.080.10R |
| 12 | 40 | 90 | 12 | CVS.12.040.090.12R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|--------------------|
| 1/8 | 1/2 | 2 | 1/8 | CVS.32.127.508.32R |
| 3/16 | 3/4 | 2 1/2 | 3/16 | CVS.48.191.635.48R |
| 1/4 | 1 | 3 | 1/4 | CVS.64.254.762.64R |
| 3/8 | 1 1/4 | 3 1/2 | 3/8 | CVS.95.318.889.95R |
| 1/2 | 1 3/8 | 3 1/2 | 1/2 | CVS.13.349.889.13R |

Detailed information on protective coatings can be found on pages: 39-42.

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

CNS / CNV / CNR
positive-negative

VHM

RH



Technical details:

- Spherical multi-edge geometry, positive-negative
- Perfect roughing of cutting edge
- Chip discharge sideways
- 3 versions of the tip:
 - CNS - standard
 - CNR - rosette
 - CNV - drilling
- Geometry adapted to the processing of composites, preventing delamination and pulling out of glass and carbon fibers
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in composite materials GFK, CFK, textolite, composite matrix, HPL. Designed for use on CNC machines.

CNS



CNR



CNV



| D mm | I mm | L mm | S mm | ARTICLE STANDARD TIP | ARTICLE ROSETTE TIP | ARTICLE DRILLING TIP |
|---------|---------|---------|---------|-------------------------|------------------------|-------------------------|
| 3 | 10 | 45 | 3 | CNS.03.010.045.03R | CNR.03.010.045.03R | CNV.03.010.045.03R |
| 3 | 10 | 60 | 6 | CNS.03.010.060.06R | CNR.03.010.060.06R | CNV.03.010.060.06R |
| 4 | 18 | 60 | 4 | CNS.04.018.060.04R | CNR.04.018.060.04R | CNV.04.018.060.04R |
| 4 | 22 | 60 | 6 | CNS.04.022.060.06R | CNR.04.022.060.06R | CNV.04.022.060.06R |
| 5 | 16 | 50 | 5 | CNS.05.016.050.05R | CNR.05.016.050.05R | CNV.05.016.050.05R |
| 6 | 25 | 70 | 6 | CNS.06.025.070.06R | CNR.06.025.070.06R | CNV.06.025.070.06R |
| 8 | 30 | 80 | 8 | CNS.08.030.080.08R | CNR.08.030.080.08R | CNV.08.030.080.08R |
| 10 | 30 | 90 | 10 | CNS.10.030.090.10R | CNR.10.030.090.10R | CNV.10.030.090.10R |
| 12 | 30 | 90 | 12 | CNS.12.030.090.12R | CNR.12.030.090.12R | CNV.12.030.090.12R |
| 16 | 45 | 100 | 16 | CNS.16.045.100.16R | CNR.16.045.100.16R | CNV.16.045.100.16R |
| 20 | 40 | 90 | 20 | CNS.20.040.090.20R | CNR.20.040.090.20R | CNV.20.040.090.20R |

Sizes in inches:

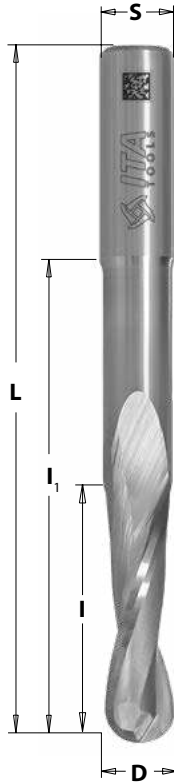
| D inch | I inch | L inch | S inch | ARTICLE STANDARD TIP | ARTICLE ROSETTE TIP | ARTICLE DRILLING TIP |
|-----------|-----------|-----------|-----------|-------------------------|------------------------|-------------------------|
| 1/8 | 1/2 | 2 | 1/8 | CNS.32.127.508.32R | CNR.32.127.508.32R | CNV.32.127.508.32R |
| 3/16 | 3/4 | 2 1/2 | 3/16 | CNS.48.191.635.48R | CNR.48.191.635.48R | CNV.48.191.635.48R |
| 1/4 | 1 | 3 | 1/4 | CNS.64.254.762.64R | CNR.64.254.762.64R | CNV.64.254.762.64R |
| 3/8 | 1 1/4 | 3 1/2 | 3/8 | CNS.95.318.889.95R | CNR.95.318.889.95R | CNV.95.318.889.95R |
| 1/2 | 1 3/8 | 3 1/2 | 1/2 | CNS.13.349.889.13R | CNR.13.349.889.13R | CNV.13.349.889.13R |

Detailed information on protective coatings can be found on pages: 39-42.

SQ32 - 199Rm positive

VHM

RH



Technical details:

- Spherical cutter with lowering, positive
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in model boards, MDF, aluminum. Designed for use on CNC machines.

| D mm | I ₁ mm | I mm | L mm | S mm | R mm | ARTICLE |
|---------|----------------------|---------|---------|---------|---------|---------------------|
| 4 | 25 | 10 | 60 | 6 | 2 | SQ32.04.010.060.06R |
| 6 | 45 | 22 | 80 | 6 | 3 | SQ32.06.022.080.06R |
| 8 | 65 | 22 | 100 | 8 | 4 | SQ32.08.022.100.08R |
| 8 | 85 | 22 | 120 | 8 | 4 | SQ32.08.022.120.08R |
| 10 | 75 | 20 | 110 | 10 | 5 | SQ32.10.020.110.10R |
| 10 | 100 | 30 | 150 | 10 | 5 | SQ32.10.030.150.10R |
| 12 | 80 | 30 | 120 | 12 | 6 | SQ32.12.030.120.12R |
| 12 | 120 | 30 | 160 | 12 | 6 | SQ32.12.030.160.12R |
| 16 | 100 | 40 | 150 | 16 | 8 | SQ32.16.040.150.16R |
| 16 | 150 | 40 | 200 | 16 | 8 | SQ32.16.040.200.16R |
| 20 | 100 | 40 | 150 | 20 | 10 | SQ32.20.040.150.20R |
| 20 | 150 | 40 | 200 | 20 | 10 | SQ32.20.040.200.20R |
| 20 | 200 | 40 | 250 | 20 | 10 | SQ32.20.040.250.20R |

Sizes in inches:

| D inch | I ₁ inch | I inch | L inch | S inch | R inch | ARTICLE |
|-----------|------------------------|-----------|-----------|-----------|-----------|---------------------|
| 3/16 | 1 | 5/8 | 2 1/2 | 3/16 | 3/32 | SQ32.48.159.635.48R |
| 1/4 | 1 3/4 | 1 | 3 1/4 | 1/4 | 1/8 | SQ32.64.254.826.64R |
| 3/8 | 2 1/2 | 1 | 4 | 3/8 | 3/19 | SQ32.95.254.102.95R |
| 1/2 | 3 1/4 | 1 1/4 | 5 | 1/2 | 1/4 | SQ32.13.318.127.13R |
| 5/8 | 4 | 1 3/4 | 6 | 5/8 | 5/16 | SQ32.16.445.152.16R |
| 3/4 | 6 | 1 3/4 | 8 | 3/4 | 3/8 | SQ32.19.445.203.19R |

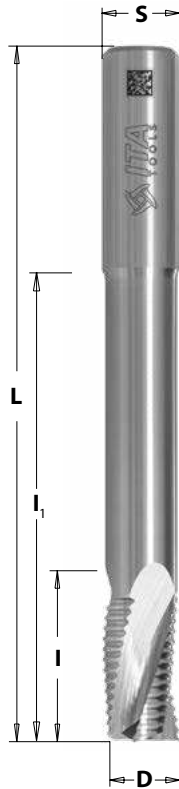
Detailed information on protective coatings can be found on pages: 39-42.

SR34 - 195Rm
positive

VHM

RH

Z3



Technical details:

- Three edge blade cutter with lowering, positive,
- Perfect roughing of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in model boards, MDF, aluminum. Designed for use on CNC machines.

| D mm | I ₁ mm | I mm | L mm | S mm | ARTICLE |
|---------|----------------------|---------|---------|---------|---------------------|
| 16 | 100 | 40 | 150 | 16 | SR34.16.040.150.16R |
| 16 | 150 | 40 | 200 | 16 | SR34.16.040.200.16R |
| 20 | 150 | 40 | 200 | 20 | SR34.20.040.200.20R |
| 20 | 200 | 40 | 250 | 20 | SR34.20.040.250.20R |
| 25 | 200 | 40 | 250 | 25 | SR34.25.040.250.25R |

Sizes in inches:

| D inch | I ₁ inch | I inch | L inch | S inch | ARTICLE |
|-----------|------------------------|-----------|-----------|-----------|---------------------|
| 5/8 | 4 | 1 3/4 | 6 | 5/8 | SR34.16.445.152.16R |
| 3/4 | 6 | 1 3/4 | 8 | 3/4 | SR34.19.445.203.19R |

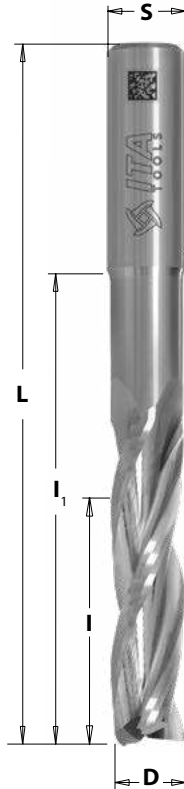
Detailed information on protective coatings can be found on pages: 39-42.

SR02 - 193Rm positive

VHM

RH

Z3



Technical details:

- Three-edge cutter with lowering, positive
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge upward
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling in model boards, MDF, aluminum. Designed for use on CNC machines.

| D mm | I mm | I ₁ mm | L mm | S mm | ARTICLE |
|---------|---------|----------------------|---------|---------|---------------------|
| 16 | 40 | 100 | 150 | 16 | SR02.16.040.150.16R |
| 16 | 40 | 150 | 200 | 16 | SR02.16.040.200.16R |
| 20 | 40 | 150 | 200 | 20 | SR02.20.040.200.20R |

Sizes in inches:

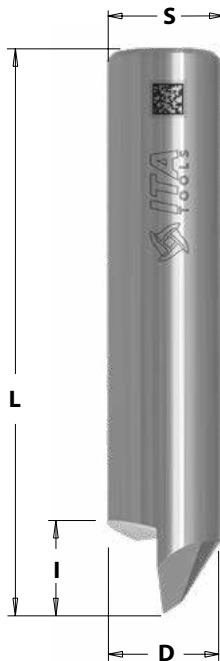
| D inch | I inch | I ₁ inch | L inch | S inch | ARTICLE |
|-----------|-----------|------------------------|-----------|-----------|---------------------|
| 5/8 | 1 3/4 | 4 | 6 | 5/8 | SR02.16.445.152.16R |
| 3/4 | 1 3/4 | 6 | 8 | 3/4 | SR02.19.445.203.19R |

Detailed information on protective coatings can be found on pages: 39-42.

FVH - 915Ra

VHM

RH



Technical details:

- Dibond bend cutter, 4 different types: V-90, V-108, V-135, foot 1,8
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For making bends in composite material of the DIBOND® type. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | α | ARTICLE |
|------|------|------|------|------|----------------------|
| 16 | 15 | 60 | 10 | 90° | FVH.16.015.060.10Ra1 |
| 16 | 15 | 60 | 12 | 90° | FVH.16.015.060.12Ra1 |
| 16 | 15 | 60 | 12 | 108° | FVH.16.015.060.12Ra2 |
| 18 | 15 | 60 | 12 | 135° | FVH.18.015.060.12Ra3 |

| D inch | I inch | L inch | S inch | α | ARTICLE |
|--------|--------|--------|--------|------|---------------------|
| 5/8 | 9/16 | 2 1/2 | 3/8 | 90° | FVH.15.143.635.95R1 |
| 5/8 | 9/16 | 2 1/2 | 1/2 | 90° | FVH.15.143.635.13R1 |
| 5/8 | 9/16 | 2 1/2 | 1/2 | 108° | FVH.15.143.635.13R2 |
| 3/4 | 9/16 | 2 1/2 | 1/2 | 135° | FVH.19.143.635.13R3 |

Dibond bend cutter Z1, 1,8 mm:

| D mm | I mm | L mm | S mm | α | ARTICLE |
|------|------|------|------|-----|----------------------|
| 10 | 4,12 | 50 | 10 | 90° | FVH.10.004.050.10Ra1 |

Detailed information on protective coatings can be found on pages: 39-42.

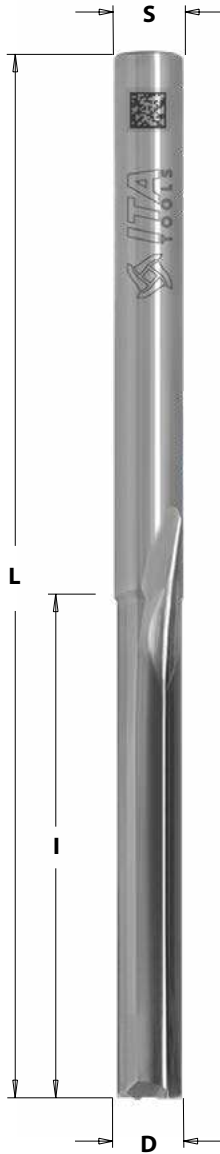
SY26 - 912RPI straight

VHM

RH

Z2

Z3



Technical details:

- Two edge blade cutter, straight
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge sideways
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling foam, alternatively for plastics processing. Designed for use on CNC machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 3 | 15 | 60 | 3 | SY26.03.015.060.03R |
| 4 | 15 | 60 | 4 | SY26.04.015.060.04R |
| 4 | 15 | 75 | 4 | SY26.04.015.075.04R |
| 5 | 15 | 75 | 5 | SY26.05.015.075.05R |
| 6 | 20 | 70 | 6 | SY26.06.020.070.06R |
| 6 | 25 | 60 | 6 | SY26.06.025.060.06R |
| 6 | 42 | 90 | 6 | SY26.06.042.090.06R |
| 8 | 70 | 120 | 8 | SY26.08.070.120.08R |
| 12 | 20 | 100 | 12 | SY26.12.020.100.12R |
| 12 | 50 | 140 | 12 | SY26.12.050.140.12R |
| 16 | 40 | 160 | 16 | SY26.16.040.160.16R |
| 20 | 30 | 273 | 20 | SY26.20.030.273.20R |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|---------------------|
| 1/8 | 3/4 | 2 1/2 | 1/8 | SY26.32.191.635.32R |
| 3/16 | 3/4 | 2 1/2 | 3/16 | SY26.48.191.635.48R |
| 3/16 | 3/4 | 3 | 3/16 | SY26.48.191.762.48R |
| 1/4 | 1 | 2 3/4 | 1/4 | SY26.64.254.699.64R |
| 1/4 | 1 3/4 | 3 1/2 | 1/4 | SY26.64.445.889.64R |
| 3/8 | 2 3/4 | 5 | 3/8 | SY26.95.699.127.95R |
| 1/2 | 1 | 4 | 1/2 | SY26.13.254.102.13R |
| 1/2 | 2 | 5 1/2 | 1/2 | SY26.13.508.140.13R |

Detailed information on protective coatings can be found on pages: 39-42.

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

SY26.XR - 912XRi straight



Technical details:

- Two edge blade cutter, straight
- Perfect finishing of cutting edge - the polished chip groove
- Chip discharge sideway
- Special type of carbide - increased tool life
- Possibility of using variety coatings

Application:

For cutting and milling HPL alternatively for plastics processing. Designed for use on CNC machines.

Advantages:

High wear resistance during processing in hard materials. Extended tool life and higher machining quality.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|----------------------|
| 4 | 15 | 60 | 4 | SY26.04.015.060.04XR |
| 6 | 15 | 60 | 6 | SY26.06.015.060.06XR |
| 8 | 15 | 60 | 8 | SY26.08.015.060.08XR |
| 10 | 15 | 60 | 10 | SY26.10.015.060.10XR |

Sizes in inches:

| D inch | I inch | L inch | S inch | ARTICLE |
|-----------|-----------|-----------|-----------|----------------------|
| 1/4 | 3/4 | 2 1/2 | 1/4 | SY26.64.191.635.64XR |
| 3/8 | 3/4 | 2 1/2 | 3/8 | SY26.95.191.635.95XR |

Detailed information on protective coatings can be found on pages: 39-42.

FVH - 957
FVI - 915Rs

VHM **RH** **Z2** **Z4**



Technical details:

- Chamfer cutter, 3 different types: V-22,5°, V-30°, V-45°
- Special type of carbide - increased tool life
- R2 and R3 radius cutters
- Possibility of using variety coatings

Application:

For chamfering plastics. Designed for use on CNC machines.

| D mm | D ₁ mm | I mm | L mm | S mm | α | ARTICLE |
|------|-------------------|------|------|------|-------|--------------------|
| 14 | 5,7 | 10 | 55 | 14 | 22,5° | FVH.14.010.055.14R |
| 16 | 4,5 | 10 | 70 | 16 | 30° | FVH.16.010.070.16R |
| 20 | 3 | 7,5 | 70 | 20 | 45° | FVH.20.007.070.20R |

Z4 for Chamfering:

| D mm | I mm | L mm | S mm | α | ARTICLE |
|------|------|------|------|-----|---------------------|
| 12 | 6 | 70 | 12 | 90° | FVH.12.006.070.12R4 |

Z2 for Rounding:

| D mm | D ₁ mm | I mm | L mm | S mm | R mm | ARTICLE |
|------|-------------------|------|------|------|------|---------------------|
| 10 | 2 | 2 | 60 | 10 | 2 | FVI.10.002.060.10R2 |
| 10 | 2 | 3 | 60 | 10 | 3 | FVI.10.003.060.10R3 |

Detailed information on protective coatings can be found on pages: 39-42.

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

SW03 - S93

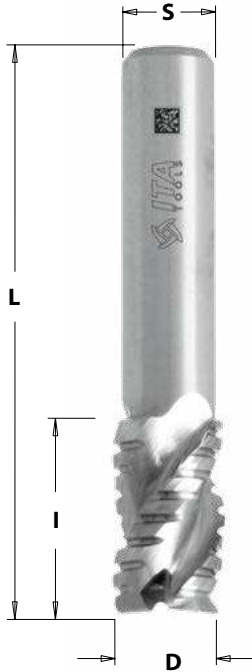
positive

VHM

Z3

RH

LH



Technical details:

- Three flute router bit with chip breaker
- Right and left rotating cutter
- Polished chip flute prevents material sticking
- Upward chip ejection
- Special type of carbide with increased tool life
- Coating possible

Application:

For milling cross-sections of PVC profiles in machines for shaped, flashless joining of profiles. Designed for use on GRAF SYNERGY machines.

| D mm | I mm | L mm | S mm | ARTICLE |
|---------|---------|---------|---------|---------------------|
| 6 | 10 | 30 | 5 | SW03.06.010.030.05R |
| 6 | 10 | 30 | 5 | SW03.06.010.030.05L |

Detailed information on protective coatings can be found on pages: 39-42.

FDT | FDH



PCD & HM TOOLS

SOLID CARBIDE ROUTER BITS

PCD & VHM TOOLS FOR COMPOSITES

CHUCKS & ACCESSORIES

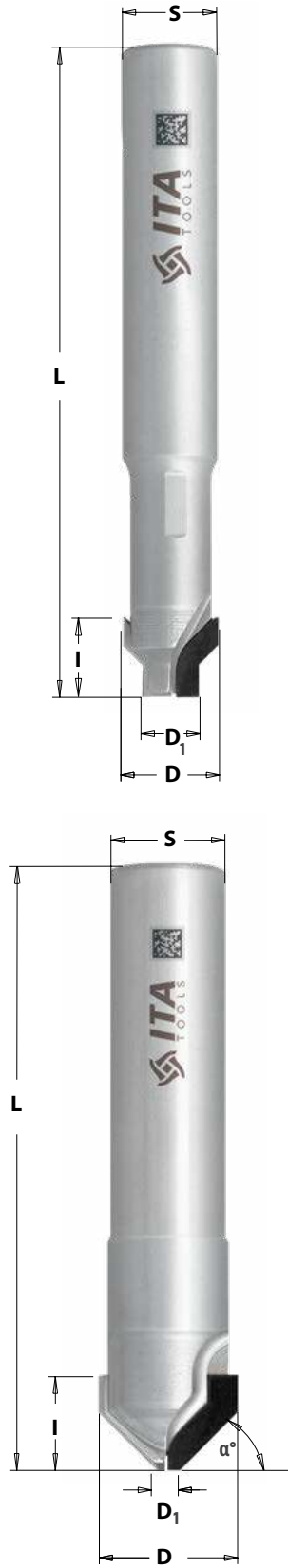
TOOLS FOR EDGEBANDING MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT & SYSTEM KNIVES

STARTER KIT



Technical details:

- Full double PCD tips,
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra < 0,3 μm
- Height of PCD tip 4 mm
- Can be resharpened (3-4 times)

Application:

To be used on all CNC routers for 90 degree milling and grooving of composite materials used for façade elements

Advantages:

Excelent finish of machining elements, quiet work.

FDT for Cutting:

| D mm | D ₁ mm | I mm | L mm | S mm | α | ARTICLE |
|------|-------------------|------|------|------|-----|-------------------|
| 12 | 7 | 6,5 | 80 | 12 | 45° | FDT.12.006.12.OSR |

FDH for Bending:

| D mm | D ₁ mm | I mm | L mm | S mm | α | ARTICLE |
|------|-------------------|------|------|------|-----|-------------------|
| 18 | 3 | 7,75 | 50 | 16 | 45° | FDH.18.007.16.OSR |

DT1/2/3/5



Technical details:

- PCD tips,
- Body made from stainless steel > 28 HRC
- Approval class of shank H6
- The shank surface roughness Ra $\leq 0,3 \mu\text{m}$
- Can be resharpened (3-4 times)

Application:

To be used on all CNC routers for jointing and sizing of solid wood, wood-based panels and composites.

| D mm | I mm | L mm | S mm | Z | PCD H mm | ARTICLE |
|---------|---------|---------|---------|---|-------------|-------------------|
| 6 | 5 | 50 | 6 | 1 | 3 | DT1.06.005.06.0MR |
| 6 | 11 | 50 | 6 | 1 | 3 | DT1.06.011.06.0MR |
| 12 | 5 | 55 | 12 | 2 | 2,5 | DT2.12.005.12.0SR |
| 12 | 15 | 85 | 12 | 3 | 3 | DT3.12.015.12.0SR |
| 16 | 10 | 130 | 16 | 5 | 3 | DT5.16.010.16.2SR |
| 18 | 22 | 100 | 20 | 5 | 3 | DT5.18.022.20.0SR |
| 20 | 22 | 80 | 20 | 5 | 3 | DT5.18.022.20.0SR |



Knives for Cutting Plotters

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

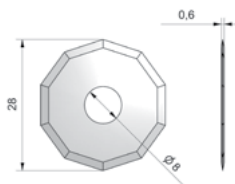
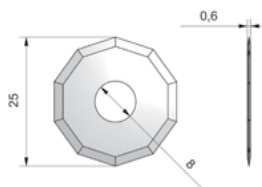
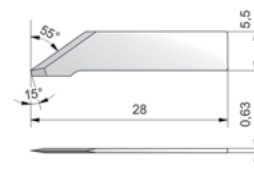
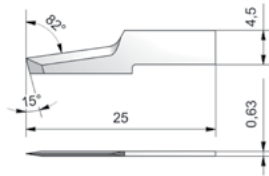
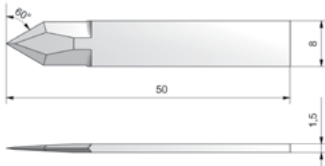
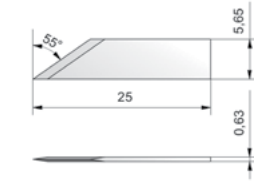
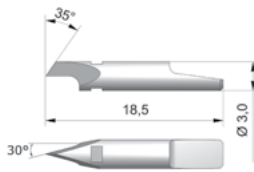
TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT



| ARTICLE | MACHINE | TECHNICAL DETAILS | |
|---------|-----------------------------------|-------------------|-----------|
| ITA.2 | Zünd Z2 Esko BLD-KC102 (i-102) | Type* | R, Z, K |
| | | Pre-cut | 1,43 x Tm |
| | | Post-cut | --- |
| | | Max. cut depth | 1,00 mm |

| ARTICLE | MACHINE | TECHNICAL DETAILS | |
|---------|---|-------------------|-----------|
| ITA.16 | Zünd Z16 Esko BLD-SF216 (i-216) Bullmer B16 | Type* | F, Z, O |
| | | Pre-cut | 0,73 x Tm |
| | | Post-cut | --- |
| | | Max. cut depth | 7,40 mm |

| ARTICLE | MACHINE | TECHNICAL DETAILS | |
|---------|----------|-------------------|-----------|
| ITA.44 | Zünd Z44 | Type* | F, Z |
| | | Pre-cut | 0,58 x Tm |
| | | Post-cut | 0,58 x Tm |
| | | Max. cut depth | 14,00 mm |

| ARTICLE | MACHINE | TECHNICAL DETAILS | |
|---------|----------|-------------------|-----------------|
| ITA.41 | Zünd Z41 | Type* | F, O |
| | | Pre-cut | 0,8 + 0,18 x Tm |
| | | Post-cut | 1,20 mm |
| | | Max. cut depth | 11,30 mm |

| ARTICLE | MACHINE | TECHNICAL DETAILS | |
|---------|----------------------------|-------------------|-----------------|
| ITA.42 | Zünd Z42 Bullmer 107506 | Type* | F, O |
| | | Pre-cut | 0,05 + 0,7 x Tm |
| | | Post-cut | 0,80 mm |
| | | Max. cut depth | 7,80 mm |

| ARTICLE | MACHINE | TECHNICAL DETAILS | |
|---------|----------------------------|-------------------|---------|
| ITA.50 | Zünd Z50 Esko BLD-RC110 | Type* | Rot |
| | | Max. cut depth | 3,50 mm |

| ARTICLE | MACHINE | TECHNICAL DETAILS | |
|---------|----------|-------------------|---------|
| ITA.51 | Zünd Z51 | Type* | Rot |
| | | Max. cut depth | 5,00 mm |

LEGEND | Types of knives

F - Flat
R - Arbor
Z - Drag knife

O - Oscillating
Rot - Rotary
Round - Round blade

P - Passe-partout
K - Kiss-Cut
T - Tangent

Chapter

CNC Router Cutters, Chucks & Accessories



HSK63F series
p. 94



HSK63F series with Bearing Nut
p. 94



HSK63F HYDRO
p. 95



HSK63F THERMO
p. 95



H6FPDX THERMO SLIM
p. 96



ISO30 DIN 69871
p. 97



Assembly supports for ISO chucks
p. 98




HSK.63F/ISO.30
p. 98



HSK63F DIN 69893
p. 99




Extension for Precision Collets
p. 100



Fixing Nuts for Chucks ISO/ HSK Standard DIN 6499
p. 100



Precision Collets
p. 101-102



HSK63F SBA.H6F
p. 103



SBA.S20 Saw Blade Arbor with Parallel Shank
p. 103



Spanners
p. 104



Tool Holder Clamp CNC
p. 104



DUST Kinetic Dust Extractor
s. 105



EPDM Rope of Cellular Rubber Round
p. 105



PCD & HM TOOLS

SOLID CARBIDE ROUTER BITS

PCD & VHM TOOLS FOR COMPOSITES

CHUCKS & ACCESSORIES

TOOLS FOR EDGEBANDING MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT & SYSTEM KNIVES

STARTER KIT

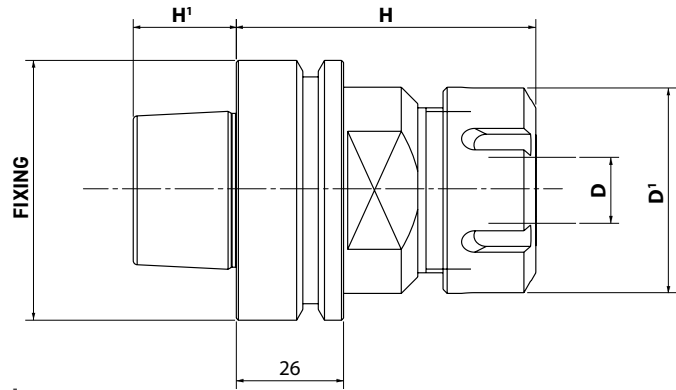
Chuck HSK-63 for CNC machines

HSK63F DIN 69893



RH

LH



Application:

For machines type: BIESSE, EIMA, HOMAG, SCM, IMA (from 9/94), WEEKE, DUBUS, BUSELLATO.

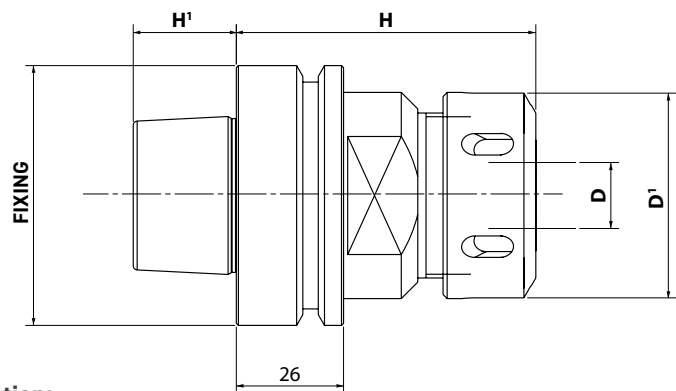
| FIXING | SLEEVES | D mm | | D' mm | H mm | H' mm | ROTATION | ARTICLE |
|--------|---------|------|------|-------|------|-------|----------|-------------|
| | | min. | max. | | | | | |
| HSK63F | ER32 | 3 | 20 | 50 | 73 | 25 | RH | H6FPDX20 |
| HSK63F | ER32 | 3 | 20 | 50 | 73 | 25 | RH | H6FPDX20SCM |
| HSK63F | ER40 | 4 | 30 | 63 | 80 | 25 | RH | H6FPDX26 |
| HSK63F | ER40 | 4 | 30 | 63 | 80 | 25 | RH | H6FPDX26SCM |
| HSK50F | ER32 | 3 | 20 | 50 | 65 | 20 | RH | H5FPDX20BS |

HSK63F with Bearing Nut



RH

LH



Application:

For machines type: BIESSE, EIMA, HOMAG, SCM, IMA (from 9/94), WEEKE, DUBUS, BUSELLATO.

| FIXING | SLEEVES | D mm | | D' mm | H mm | H' mm | ROTATION | ARTICLE |
|--------|---------|------|------|-------|------|-------|----------|---------------|
| | | min. | max. | | | | | |
| HSK63F | ER32 | 3 | 20 | 50 | 73 | 25 | RH | H6FPDX20.BN * |
| HSK63F | ER40 | 4 | 30 | 63 | 80 | 25 | RH | H6FPDX26.BN * |
| HSK63F | EOC25 | 2 | 25 | 60 | 80 | 25 | RH | H6FPDX25.BN * |
| HSK63F | EOC25 | 2 | 25 | 60 | 80 | 25 | RH | H6FPDX25 |

* blind hole

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
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TOOLS FOR EDGE BANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

HSK63F HYDRO



Advantages:

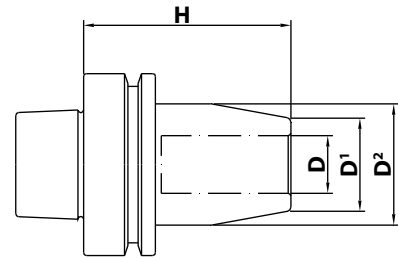
- Highest quality of fixing provides evenly work all knives together
- Lack of collets and fixing nuts are minimizing vibrations

Application:

Precise HYDRO chuck allows perfect connection the tool with chuck. Thermal clamping the shank in the chuck guarantee low vibration below μm . For self-assembly, the tool in the chuck is necessary additional instrumentation.

| D ¹ mm | D ² mm | D ³ mm | H ¹ mm | H ² mm | H ³ mm | H ⁴ mm | ARTICLE |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|
| 12 | 22 | 43,5 | 75 | 49 | 18 | 40 | H6FPDXHYDRO12 |
| 16 | 26 | 48 | 75 | 49 | 28 | 50 | H6FPDXHYDRO16 |
| 20 | 30 | 52 | 75 | 49 | 30 | 52 | H6FPDXHYDRO20 |

HSK63F THERMO



Advantages:

- Highest quality of fixing provides evenly work all knives together
- Lack of collets and fixing nuts are minimizing vibrations
- The power of clamp around 1300 Nm

Application:

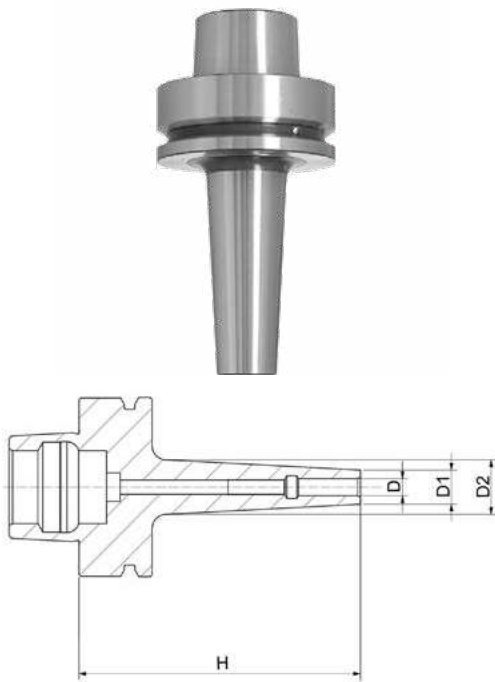
Precise THERMO chuck allows perfect connection the tool with chuck. Thermal clamping the shank in the chuck guarantee low vibration below $3\mu\text{m}$. For self-assembly, the tool in the chuck is necessary additional instrumentation.

| FIXING | D mm | D ¹ mm | D ² mm | H mm | ROTATION | ARTICLE |
|--------|---------|----------------------|----------------------|---------|----------|----------------|
| HSK63F | 6 | 21 | 29 | 76 | RH/LH | H6FPDXTHERM006 |
| HSK63F | 8 | 21 | 29 | 76 | RH/LH | H6FPDXTHERM008 |
| HSK63F | 10 | 24 | 32 | 76 | RH/LH | H6FPDXTHERM010 |
| HSK63F | 12 | 24 | 32 | 76 | RH/LH | H6FPDXTHERM012 |
| HSK63F | 16 | 27 | 34 | 76 | RH/LH | H6FPDXTHERM016 |
| HSK63F | 20 | 33 | 42 | 76 | RH/LH | H6FPDXTHERM020 |
| HSK63F | 25 | 44 | 53 | 76 | RH/LH | H6FPDXTHERM025 |

H6FPDX THERMO SLIM

RH

LH



Advantages:

- Highest quality of fixing provides evenly work all knives together
- Lack of collets and fixing nuts are minimizing vibrations
- The power of clamp around 1300 Nm

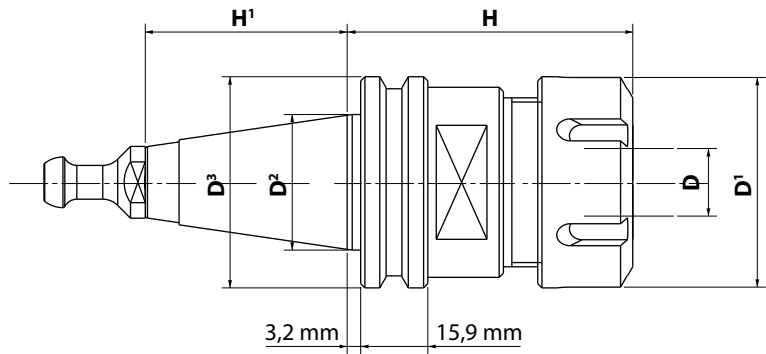
Application:

Precise THERMO chuck allows perfect connection the tool with chuck. Thermal clamping the shank in the chuck guarantee low vibration below 3µm. For self-assembly, the tool in the chuck is necessary additional instrumentation.

| FIXING | D ¹ mm | D ² mm | D ³ mm | H mm | ROTATION | ARTICLE |
|--------|----------------------|----------------------|----------------------|---------|----------|----------------------|
| HSK63F | 6 | 12 | 19,3 | 100 | RH/LH | H6FPDXTHERM006.A100M |
| HSK63F | 6 | 12 | 24,8 | 150 | RH/LH | H6FPDXTHERM006.A150M |
| HSK63F | 6 | 12 | 29,7 | 200 | RH/LH | H6FPDXTHERM006.A200M |
| HSK63F | 8 | 21 | 28,3 | 100 | RH/LH | H6FPDXTHERM008.A100M |
| HSK63F | 8 | 21 | 33,5 | 150 | RH/LH | H6FPDXTHERM008.A150M |
| HSK63F | 8 | 21 | 38,7 | 200 | RH/LH | H6FPDXTHERM008.A200M |
| HSK63F | 10 | 16 | 23,2 | 100 | RH/LH | H6FPDXTHERM010.A100M |
| HSK63F | 10 | 16 | 28,5 | 150 | RH/LH | H6FPDXTHERM010.A150M |
| HSK63F | 10 | 16 | 33,7 | 200 | RH/LH | H6FPDXTHERM010.A200M |
| HSK63F | 12 | 18 | 25,3 | 100 | RH/LH | H6FPDXTHERM012.A100M |
| HSK63F | 12 | 18 | 30,5 | 150 | RH/LH | H6FPDXTHERM012.A150M |
| HSK63F | 12 | 18 | 35,7 | 200 | RH/LH | H6FPDXTHERM012.A200M |
| HSK63F | 16 | 22 | 29,26 | 100 | RH/LH | H6FPDXTHERM016.A100M |
| HSK63F | 16 | 22 | 34,2 | 150 | RH/LH | H6FPDXTHERM016.A150M |
| HSK63F | 16 | 22 | 35 | 200 | RH/LH | H6FPDXTHERM016.A200M |
| HSK63F | 20 | 26 | 32,9 | 100 | RH/LH | H6FPDXTHERM020.A100M |
| HSK63F | 20 | 26 | 38,2 | 150 | RH/LH | H6FPDXTHERM020.A150M |
| HSK63F | 20 | 26 | 43,5 | 200 | RH/LH | H6FPDXTHERM020.A200M |
| HSK63F | 25 | 31 | 38,56 | 100 | RH/LH | H6FPDXTHERM025.A100M |
| HSK63F | 25 | 31 | 43,7 | 150 | RH/LH | H6FPDXTHERM025.A150M |
| HSK63F | 25 | 31 | 46 | 200 | RH/LH | H6FPDXTHERM025.A200M |

Chuck ISO-30 for CNC machines

ISO30
DIN 69871



Application:

For CNC machines: BIESSE, COSMEC, MASTERWOOD®.

| FIXING | COLLET | D mm | | D ¹ mm | D ² mm | D ³ mm | H mm | H ¹ mm | ROTATION | ARTICLE |
|--------|--------|------|------|-------------------|-------------------|-------------------|------|-------------------|----------|-----------|
| | | min. | max. | | | | | | | |
| ISO 30 | ER32 | 3 | 20 | 50 | 31,75 | 50 | 50 | 47,8 | RH | B30PDX20 |
| ISO 30 | ER32 | 3 | 20 | 50 | 31,75 | 50 | 50 | 47,8 | RH | B30PDX20N |
| ISO 30 | ER40 | 4 | 30 | 63 | 31,75 | 50 | 57 | 47,8 | RH | B30PDX26 |

Application:

For CNC machines: MORBIDELLI, EIMA, DUBUS, WEEKE.

| FIXING | COLLET | D mm | | D ¹ mm | D ² mm | D ³ mm | H mm | H ¹ mm | ROTATION | ARTICLE |
|--------|--------|------|------|-------------------|-------------------|-------------------|------|-------------------|----------|----------|
| | | min. | max. | | | | | | | |
| ISO 30 | ER32 | 3 | 20 | 50 | 31,75 | 50 | 68 | 47,8 | RH | I30PDX20 |
| ISO 30 | ER32 | 3 | 20 | 50 | 31,75 | 50 | 68 | 47,8 | LH | I30PSX20 |
| ISO 30 | ER40 | 4 | 30 | 63 | 31,75 | 50 | 68 | 47,8 | RH | I30PDX26 |
| ISO 30 | ER40 | 4 | 30 | 63 | 31,75 | 50 | 68 | 47,8 | LH | I30PSX26 |
| ISO 30 | EOC25 | 2 | 25 | 60 | 31,75 | 50 | 70 | 47,8 | RH | I30PDX25 |
| ISO 30 | EOC25 | 2 | 25 | 60 | 31,75 | 50 | 70 | 47,8 | LH | I30PSX25 |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

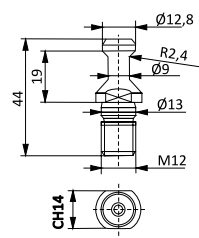
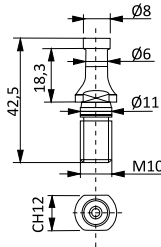
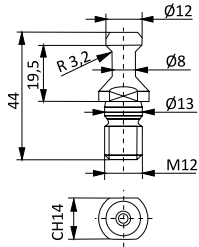
DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

CDM/930

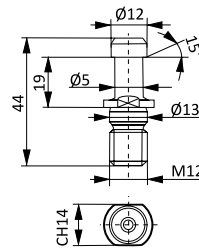
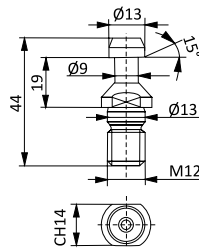
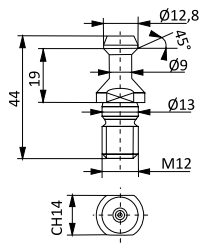
Pull Studs for ISO Chucks



| MACHINE TYPE | ARTICLE |
|---|----------|
| BIESSE, MASTERWOOD, COSMEC, ELETTROMANDRINI HSD | CDM12BIE |

| MACHINE TYPE | ARTICLE |
|-----------------|----------|
| SCM, MORBIDELLI | CDM10SCM |

| MACHINE TYPE | ARTICLE |
|--------------|----------|
| CMS | CDM12CMS |



| MACHINE TYPE | ARTICLE |
|---|----------|
| ALBERTI, MASTERWOOD, ELETTROMANDRINI G. COLOMBO | CDM12ALB |

| MACHINE TYPE | ARTICLE |
|---|----------|
| IMA, MAKI, WEEKE, BULLERI, REICHENBACHER, BUSELLATO, ESSETEAM, ELETTROMANDRINI ELTE | CDM10SCM |

| MACHINE TYPE | ARTICLE |
|------------------|----------|
| ISO30DIN 7388/2A | 930TIR11 |

HSK.63F/ISO.30

Universal Assembly Supports for Chucks

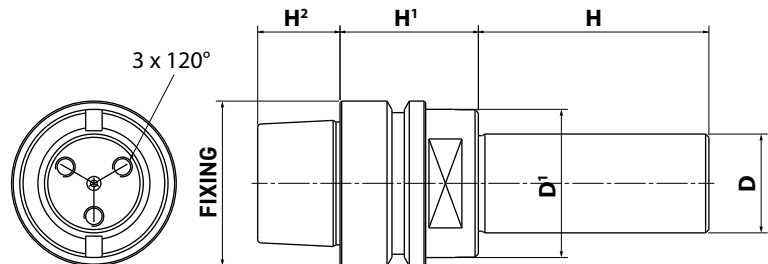


| INFO | D mm | ARTICLE |
|--|------|-----------------|
| Universal assembly supports for chucks HSK-F63 | 63 | HSK.63F.Support |
| Universal assembly support for chucks ISO30 | 50 | ISO.30.Support |

Application:

Universal assembly supports for HSK-63F and ISO30 chucks. Thanks to the bi-directional roller bearings, which clamp the left-hand rotation to the flange, the system offers the highest protection to the tool taper and clamps are no longer needed.

HSK63F DIN 69893



Application:

For machines type: BIESSE, EIMA, HOMAG, SCM, IMA (from 9/94), WEEKE, DUBUS, BUSELLATO, MASTERWOOD®.

| FIXING | D mm | D' mm | H mm | H' mm | H ² mm | ARTICLE |
|--------|------|-------|------|-------|-------------------|--------------|
| HSK63F | 30 | 45 | 70 | 42 | 25 | H6FAPF30.70 |
| HSK63F | 30 | 45 | 80 | 42 | 25 | H6FAPF30.80 |
| HSK63F | 30 | 45 | 100 | 42 | 25 | H6FAPF30.100 |
| HSK63F | 30 | 45 | 150 | 42 | 25 | H6FAPF30.150 |

Spacer rings:

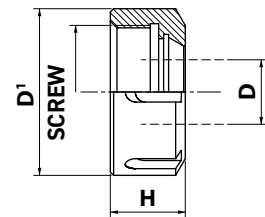
| D mm | F mm | I mm | ARTICLE | D mm | F mm | I mm | ARTICLE |
|------|------|------|---------------|------|------|------|--------------|
| 50 | 30 | 0,2 | TUL.50.30.002 | 50 | 30 | 10 | TUL.50.30.10 |
| 50 | 30 | 0,5 | TUL.50.30.005 | 50 | 30 | 15 | TUL.50.30.15 |
| 50 | 30 | 1 | TUL.50.30.01 | 50 | 30 | 20 | TUL.50.30.20 |
| 50 | 30 | 2 | TUL.50.30.02 | 50 | 30 | 30 | TUL.50.30.30 |
| 50 | 30 | 3 | TUL.50.30.03 | 50 | 30 | 40 | TUL.50.30.40 |
| 50 | 30 | 5 | TUL.50.30.05 | 50 | 30 | 45 | TUL.50.30.45 |
| 50 | 30 | 6 | TUL.50.30.06 | 50 | 30 | 50 | TUL.50.30.50 |

Extension for Precision Collets



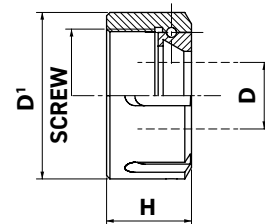
| FIXING | D mm | L mm | ARTICLE |
|--------|------|------|-------------------|
| ER32 | 20 | 160 | 183.ER32.S20.160 |
| ER25M | 25 | 160 | 183.ER25.S25.L160 |
| ER25M | 20 | 200 | 183.ER25.S20.L200 |
| ER25M | 20 | 160 | 183.ER25.S20.L160 |
| ER25M | 20 | 100 | 183.ER25.S20.L100 |
| ER20 | 20 | 160 | 183.ER20.S20.L160 |
| ER16M | 25 | 130 | 183.ER16.S25.L130 |
| ER16M | 25 | 100 | 183.ER16.S25.L100 |
| ER16M | 20 | 270 | 183.ER16.S20.L270 |
| ER16M | 20 | 200 | 183.ER16.S20.L200 |
| ER16M | 20 | 160 | 183.ER16.S20.L160 |
| ER16M | 16 | 130 | 183.ER16.S16.L130 |
| ER16M | 16 | 100 | 183.ER16.S16.L100 |
| ER11M | 16 | 160 | 183.ER11.S16.L160 |
| ER11M | 16 | 130 | 183.ER11.S16.L130 |

Fixing Nuts for Chucks ISO/ HSK Standard DIN 6499



| COLLET | D mm | | D' mm | H mm | SCREW | ROTATION | ARTICLE |
|--------|------|------|-------|------|---------|----------|----------|
| | min. | max. | | | | | |
| ER32 | 3 | 20 | 50 | 22,5 | M40x1,5 | RH | 932GHCOD |
| ER32 | 3 | 20 | 50 | 22,5 | M40x1,5 | LH | 932GHCOS |

Fixing Nuts for Chucks ISO/ HSK with bearing



| COLLET | D mm | | D' mm | H mm | SCREW | ROTATION | ARTICLE |
|--------|------|------|-------|------|---------|----------|----------|
| | min. | max. | | | | | |
| ER32 | 3 | 3 | 50 | 26 | M40x1,5 | RH | 932GHRSD |
| ER32 | 3 | 3 | 50 | 26 | M40x1,5 | LH | 932GHRSS |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

Precision Collets

EOC16 DIN6388



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|----------|
| 40 | 25,5 | 2 | EOC16D02 |
| 40 | 25,5 | 3 | EOC16D03 |
| 40 | 25,5 | 4 | EOC16D04 |
| 40 | 25,5 | 5 | EOC16D05 |
| 40 | 25,5 | 6 | EOC16D06 |
| 40 | 25,5 | 7 | EOC16D07 |
| 40 | 25,5 | 8 | EOC16D08 |
| 40 | 25,5 | 10 | EOC16D10 |
| 40 | 25,5 | 12 | EOC16D12 |
| 40 | 25,5 | 14 | EOC16D14 |
| 40 | 25,5 | 16 | EOC16D16 |

EOC25 DIN6388



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|----------|
| 52 | 35 | 3 | EOC25D03 |
| 52 | 35 | 6 | EOC25D06 |
| 52 | 35 | 8 | EOC25D08 |
| 52 | 35 | 10 | EOC25D10 |
| 52 | 35 | 12 | EOC25D12 |
| 52 | 35 | 16 | EOC25D16 |
| 52 | 35 | 20 | EOC25D20 |
| 52 | 35 | 25 | EOC25D25 |

ER11 DIN6499



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|---------|
| 18 | 11,5 | 2 | ER11D02 |
| 18 | 11,5 | 3 | ER11D03 |
| 18 | 11,5 | 4 | ER11D04 |
| 18 | 11,5 | 5 | ER11D05 |
| 18 | 11,5 | 6 | ER11D06 |

ER16 DIN6499



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|---------|
| 28 | 17 | 2 | ER16D02 |
| 28 | 17 | 3 | ER16D03 |
| 28 | 17 | 4 | ER16D04 |
| 28 | 17 | 5 | ER16D05 |
| 28 | 17 | 6 | ER16D06 |
| 28 | 17 | 7 | ER16D07 |
| 28 | 17 | 8 | ER16D08 |
| 28 | 17 | 9 | ER16D09 |
| 28 | 17 | 10 | ER16D10 |

Precision Collets

ER20 DIN6499



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|---------|
| 32 | 21 | 2 | ER20D02 |
| 32 | 21 | 3 | ER20D03 |
| 32 | 21 | 4 | ER20D04 |
| 32 | 21 | 5 | ER20D05 |
| 32 | 21 | 6 | ER20D06 |
| 32 | 21 | 7 | ER20D07 |
| 32 | 21 | 8 | ER20D08 |
| 32 | 21 | 9 | ER20D09 |
| 32 | 21 | 10 | ER20D10 |
| 32 | 21 | 11 | ER20D11 |
| 32 | 21 | 12 | ER20D12 |
| 32 | 21 | 13 | ER20D13 |

ER25 DIN6499



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|---------|
| 34 | 26 | 10 | ER25D10 |
| 34 | 26 | 12 | ER25D12 |
| 34 | 26 | 16 | ER25D16 |

ER32 DIN6499



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|---------|
| 40 | 33 | 3 | ER32D03 |
| 40 | 33 | 4 | ER32D04 |
| 40 | 33 | 6 | ER32D06 |
| 40 | 33 | 8 | ER32D08 |
| 40 | 33 | 10 | ER32D10 |
| 40 | 33 | 12 | ER32D12 |
| 40 | 33 | 14 | ER32D14 |
| 40 | 33 | 16 | ER32D16 |
| 40 | 33 | 20 | ER32D20 |

ER40 DIN6499



| L mm | D mm | F mm | ARTICLE |
|---------|---------|---------|---------|
| 46 | 41 | 6 | ER40D06 |
| 46 | 41 | 10 | ER40D10 |
| 46 | 41 | 12 | ER40D12 |
| 46 | 41 | 20 | ER40D20 |
| 46 | 41 | 25 | ER40D25 |

PCD & HM TOOLS
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 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

Chucks for CNC machines

HSK63F SBA.H6F



RH
LH

Advantages:

- High precision, extreme reliability and perfect tool centering
- Made of very high strength special steel, precision ground on all mating surfaces
- Very high transmissible power

Application:

Precise HSK Chuck for grooving blade specifically designed for right or left-hand rotation with self-locking antagonist threads.

| FIXING | D mm | B mm | L mm | PH | ARTICLE | MAX SAW BLADE DIAMETER mm |
|--------|---------|---------|---------|---------|----------------|------------------------------|
| HSK63F | 59 | 30 | 78 | 4/M6/48 | SBA.H6F.30.250 | 250 |
| HSK63F | 98 | 30 | 94 | 6/M6/80 | SBA.H6F.30.300 | 300 |
| HSK63F | 110 | 30 | 40 | 6/M6/80 | SBA.H6F.30.350 | 350 |

SBA.S20

Saw Blade Arbor with Parallel Shank

RH

LH



Advantages:

- Extreme precision and reliability
- Perfect tool centering and defect-free rotation
- Made from extremely high resistant steel
- Precision grinding on all jointed parts
- Extreme high rotation performance > 15 HP – 20.000 RPM
- For very efficient sizing on extreme unprecedented high feed speed
- Excellent finishing quality on the workpiece and longer tool life
- Sturdy design with reduced height to increase the work space between the machine and the piece.
- Interchangeable collet clamps with radial grooves for secure parallel tool clamping and wide clamping tolerance (-0.7mm)

Application:

Saw blade arbor with parallel shank for machining centres, point-to-point machines and CNC routers.

Safety tips:

The TW-006 TORQUE SCREWDRIVER is recommended for the proper fastening of screws.

| S mm | D mm | B mm | L mm | PH | ARTICLE | MAX SAW BLADE DIAMETER mm |
|---------|---------|---------|---------|---------|----------------|------------------------------|
| 20 | 59 | 30 | 97,5 | 4/M6/48 | SBA.S20.30.250 | 250 |

Spare parts:

990.116.00 - SCREWS M6x8.7x12 TSPEI

991.064.00 - SPANNER 4mm

Spanners

PCD & HM TOOLS

991 CNC Spanners



| INFO | W | ARTICLE |
|------------|--------------|------------|
| C-SPANNERS | 45 - 50 | 991.123.00 |
| C-SPANNERS | 58 - 62 - 65 | 991.283.00 |

SOLID CARBIDE
ROUTER BITS

993/940 CNC Spanners



| ER/ETS | ARTICLE |
|--------|----------|
| 32 | 932CHVST |
| 40 | 940CHVST |

PCD & VHM TOOLS FOR
COMPOSITES

925 CNC Spanners



| EOC | ARTICLE |
|-----|----------|
| 25 | 925CHVOC |

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

940 Dynamometric spanners



| MOCOWANIE | ARTICLE |
|-----------|----------------|
| ER40/ETS | 940CHVST.DYN |
| ER32/ETS | 932CHVST.DYN |
| ER25/ETC | 925CHVST.DYN |
| EOC25 | 925CHVOC.DYN.M |

CIRCULAR SAW BLADES

DRILL BITS

I30.CNC.BIE Tool Holder Clamp CNC



Application:

Tool holder clamp for BIESSE machines.

| INFO | ARTICLE |
|--|-------------|
| Tool Holder Clamp SK30 BIESSE machines | I30.CNC.BIE |

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

DUST

Kinetic Dust Extractor with Precision Collets



RH

Advantages:

- Fixing collet made of steel
- The unique arrangement and geometry of the blades cause the chip to be thrown upwards directly into the extraction unit
- The shape of the blades reduces the noise generated during operation
- Very easy to use
- Increases tool life and reduces production costs
- Recommended for nesting and routing operations
- Replaces the standard clamping nut
- Suitable for any collet chucks with standard router bits
- Available for: ER32, ER40, EOC25 collets

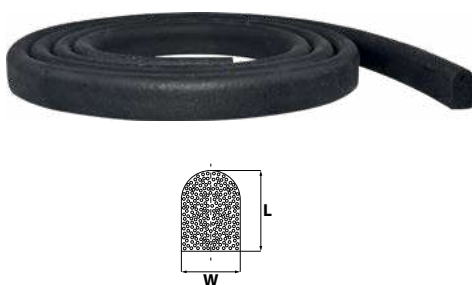
| INFO | ARTICLE |
|---------------------------------------|------------|
| Kinetic dust extractor - collet EOC25 | EOC25.DUST |
| Kinetic dust extractor - collet ER40 | ER40.DUST |
| Kinetic dust extractor - collet ER32 | ER32.DUST |

Spare parts:

925CHVOC - CNC SPANNER

EPDM

Rope of Cellular Rubber Round



Application:

For template production, sealing grid tables, seals in machines with console tables.

| D mm | ARTICLE |
|---------|---------|
| 6 | EPDM06 |
| 7 | EPDM07 |
| 8 | EPDM08 |

| W x L mm | ARTICLE |
|-------------|----------|
| 6 x 10 | EPDM6X10 |
| 6 x 8 | EPDM6X8 |
| 6 x 10 | EPDM6X10 |



EDGEBANDING PROCESS



Chapter


Tools for Edgebanding Machines



DGM series
p. 108



DGL series
p. 111



DGB series
p. 113



DGB series
p. 114




GKN, GK2 series
p. 115



HOG series
p. 116



PKA series
p. 117



Edgebanding Machine Knives
p. 119



PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR
EDGEBANDING MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

DGM



SYMMETRICAL ROTATION

Technical details:

- Height of PCD tip 4,5 mm
- Can be resharpened (5-6 times)
- Additional grooves at the main hole 4x8 (DKN)

Application:

Finishing Diamond cutter heads for edge banding machines with mechanical feed. Eliminating the run-out effects favourable for the service life of the machine. Suitable for MDF and chipboard panels. Easy selection for a specific machine model with a database of dedicated tools.



ASYMETRICAL ROTATION



Specially designed verse stainless steel body significantly lowers noise level.



Teeth extended above the body and separate channel for each blade for better facilitate chip evacuation.

HOLE IN TOLERANCE

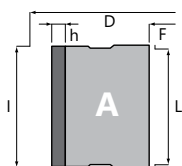
H7

Eliminating the run-out effects favourable for the service life of the machine.

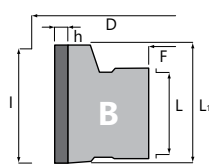
BALANCING CLASS

G2,5

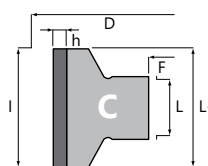
Cutter works evenly, without vibrations, even at maximum speed.



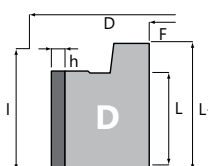
TYPE A



TYPE B



TYPE C



TYPE D

| D mm | F mm | I mm | L mm | L ₁ mm | Z | α | PLATES | PCD H mm | TYPE | MACHINE | ARTICLE RH | ARTICLE LH |
|------|----------|------|------|-------------------|-----|-----|--------|----------|------|-----------------|--------------------|--------------------|
| 60 | 16 (DKN) | 54 | 30 | 56 | 3+3 | 30° | 18 | 4,5 | C | BIMATIC | DGM.060016054.0SC4 | |
| 60 | 20 (DKN) | 45 | 47 | - | 2+2 | 30° | 10 | 2,5 | A | LANGE | DGM.060020045.0RA2 | DGM.060020045.0LA2 |
| 60 | 20 (DKN) | 48 | 42 | 50 | 3+3 | 30° | 18 | 4,5 | B | JAROMA, STOMANA | DGM.060020048.0RB4 | DGM.060020048.0LB4 |
| 60 | 20 (DKN) | 55 | 57 | - | 2+2 | 30° | 12 | 2,5 | A | LANGE | DGM.060020055.0RA2 | DGM.060020055.0LA2 |
| 60 | 20 (DKN) | 55 | 44 | 57 | 2+2 | 30° | 14 | 4,5 | B | CEHISA, LANGE | DGM.060020055.0RB4 | DGM.060020055.0LB4 |

Premill PCD Cutter Heads with Brazed Knives for Edgebanding machines

| D mm | F mm | I mm | L mm | L ₁ mm | Z | α | PLATES | PCD H mm | TYPE | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|----------|---------|---------|----------------------|-----|-----|--------|-------------|------|---------------|---------------------|---------------------|
| 60 | 20 (DKN) | 65 | 67 | - | 2+2 | 30° | 16 | 2,5 | A | CEHISA, LANGE | DGM.060020065.1RA2 | DGM.060020065.1LA2 |
| 60 | 25 (DKN) | 48 | 50 | - | 2+2 | 30° | 12 | 2,5 | A | HOLZING | DGM.060025048.0RA2 | DGM.060025048.0LA2 |
| 60 | 25 (DKN) | 48 | 50 | - | 2+2 | 30° | 12 | 4,5 | A | FELDER | DGM.060025048.0RA4 | DGM.060025048.0LA4 |
| 60 | 25 (DKN) | 48 | 50 | 63 | 2+2 | 30° | 12 | 4,5 | D | FELDER | DGM.060025048.1RA4 | DGM.060025048.1LA4 |
| 60 | 25 (DKN) | 56 | 58 | - | 2+2 | 30° | 14 | 4,5 | A | FELDER | DGM.060025056.0RA4 | DGM.060025056.0LA4 |
| 60 | 25 (DKN) | 64 | 66 | - | 2+2 | 30° | 16 | 4,5 | A | FELDER | DGM.060025064.0RA4 | DGM.060025064.0LA4 |
| 70 | 20 (DKN) | 48 | 30 | 50 | 2+2 | 30° | 12 | 4,5 | C | LAZZONI | DGM.070020048.2RC4 | DGM.070020048.2LC4 |
| 70 | 20 (DKN) | 48 | 30 | 50 | 3+3 | 30° | 18 | 4,5 | C | LAZZONI | DGM.070020048.3RC4 | DGM.070020048.3RC4 |
| 70 | 20 | 50 | 30 | 52 | 2+2 | 30° | 12 | 2,5 | C | TORK MAKINA | DGM.070020050.0LC2T | DGM.070020050.0LC2T |
| 70 | 25 (DKN) | 48 | 50 | 61 | 3+3 | 30° | 18 | 4,5 | D | HEBROCK | DGM.070025048.0RA4 | DGM.070025048.0LA4 |
| 70 | 25 (DKN) | 48 | 50 | 61 | 2+2 | 30° | 18 | 2,5 | D | HEBROCK | DGM.070025048.2RA2 | DGM.070025048.2LA2 |
| 70 | 30 (DKN) | 56 | 37 | 59 | 2+2 | 30° | 14 | 4,5 | C | HOLZHER | DGM.070030056.2RC4 | DGM.070030056.2LC4 |
| 70 | 30 (DKN) | 64 | 41,5 | 67 | 2+2 | 30° | 16 | 4,5 | C | HOLZHER | DGM.070030064.0RC4 | DGM.070030064.0LC4 |
| 70 | 30 (DKN) | 64 | 41,5 | 67 | 3+3 | 30° | 24 | 4,5 | C | HOLZHER | DGM.070030064.4RC4 | DGM.070030064.4LC4 |
| 80 | 25 (DKN) | 48 | 50 | 63 | 2+2 | 30° | 12 | 4,5 | D | FELDER | DGM.080025048.1RA4 | DGM.080025048.1LA4 |
| 80 | 25 (DKN) | 48 | 50 | 63 | 3+3 | 30° | 18 | 4,5 | D | FELDER | DGM.080025048.3RA4 | DGM.080025048.3LA4 |
| 80 | 25 (DKN) | 64 | 66 | - | 2+2 | 30° | 16 | 4,5 | A | FELDER | DGM.080025064.1RA4 | DGM.080025064.1LA4 |
| 80 | 25 (DKN) | 64 | 66 | - | 3+3 | 30° | 24 | 4,5 | A | FELDER | DGM.080025064.2RA4 | DGM.080025064.2LA4 |
| 80 | 30 (DKN) | 45 | 47 | - | 3+3 | 30° | 18 | 4,5 | A | BIESSE | DGM.080030045.SSA4 | |
| 80 | 30 (DKN) | 56 | 58 | - | 2+2 | 30° | 14 | 4,5 | A | SCM | DGM.080030056.0RA4 | DGM.080030056.0LA4 |
| 80 | 30 (DKN) | 65 | 53 | 69 | 3+3 | 45° | 24 | 4,5 | C | BIESSE | DGM.080030065.1SC4 | |
| 85 | 30 (DKN) | 45 | 47 | - | 3+3 | 30° | 18 | 4,5 | A | OTT | DGM.085030045.0RA4 | DGM.085030045.0LA4 |
| 100 | 20 (DKN) | 65 | 37 | 67 | 2+2 | 30° | 16 | 4,5 | C | CEHISA | DGM.100020065.0RC4 | DGM.100020065.0LC4 |
| 100 | 25 (DKN) | 65 | 37 | 72 | 2+2 | 30° | 16 | 4,5 | B | CEHISA | DGM.100020065.KRB4 | DGM.100020065.KLB4 |
| 100 | 25 (DKN) | 48 | 40,6 | 50 | 2+2 | 30° | 12 | 4,5 | B | BRANDT | DGM.100025048.0RB4 | DGM.100025048.0LB4 |
| 100 | 30 (DKN) | 43 | 35,6 | 45 | 3+3 | 30° | 15 | 4,5 | B | BRANDT, HOMAG | DGM.100030043.0RB4 | DGM.100030043.0LB4 |
| 100 | 30 (DKN) | 45 | 47 | 61 | 2+2 | 30° | 14 | 4,5 | D | HEBROCK | DGM.100030045.2RA4 | DGM.100030045.2LA4 |
| 100 | 30 (DKN) | 48 | 50 | - | 3+3 | 30° | 18 | 4,5 | A | SCM | DGM.100030048.0RA4 | DGM.100030048.0LA4 |
| 100 | 30 (DKN) | 48 | 40,6 | 50 | 3+3 | 30° | 18 | 4,5 | B | BRANDT | DGM.100030048.0RB4 | DGM.100030048.0LB4 |
| 100 | 30 (DKN) | 48 | 25 | 50 | 3+3 | 30° | 18 | 4,5 | C | SCM, HOLZHER | DGM.100030048.0RC4 | DGM.100030048.0LC4 |
| 100 | 30 (DKN) | 48 | 50 | 61 | 3+3 | 30° | 18 | 4,5 | D | HEBROCK | DGM.100030048.2RA4 | DGM.100030048.2LA4 |
| 100 | 30 (DKN) | 51 | 52 | 58 | 3+3 | 30° | 21 | 4,5 | D | SCM | DGM.100030051.0RA4 | DGM.100030051.0LA4 |

Premill PCD Cutter Heads with Brazed Knives for Edgebanding machines

| D mm | F mm | I mm | L mm | L ₁ mm | Z | α | PLATES | PCD H mm | TYPE | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|----------|---------|---------|----------------------|-----|-----|--------|-------------|------|-------------------------|--------------------|--------------------|
| 100 | 30 (DKN) | 64 | 40,6 | 66 | 3+3 | 30° | 24 | 4,5 | B | BRANDT, HOMAG | DGM.100030064.0RB4 | DGM.100030064.0LB4 |
| 100 | 30 (DKN) | 64 | 60 | 71 | 3+3 | 30° | 24 | 4,5 | D | SCM | DGM.100030064.KRB4 | DGM.100030064.KLB4 |
| 100 | 30 (DKN) | 64 | 39 | 67 | 3+3 | 30° | 24 | 4,5 | C | BRANDT, HOMAG | DGM.100030064.0RC4 | DGM.100030064.0LC4 |
| 125 | 30 (DKN) | 34 | 36 | - | 3+3 | 30° | 12 | 4,5 | A | BIESSE | DGM.125030034.0RA4 | DGM.125030034.0LA4 |
| 125 | 30 (DKN) | 40 | 42 | - | 3+3 | 30° | 9 | 3,5 | A | KDT | DGM.125030040.0RA3 | DGM.125030040.0LA3 |
| 125 | 30 (DKN) | 43 | 39 | 45 | 3+3 | 30° | 15 | 4,5 | B | IMA ADVANTAGE | DGM.125030043.0RB4 | DGM.125030043.0LB4 |
| 125 | 30 (DKN) | 43 | 36 | 45 | 3+3 | 30° | 18 | 4,5 | B | HOMAG | DGM.125030043.1RB4 | DGM.125030043.1LB4 |
| 125 | 30 (DKN) | 43 | 33,5 | 45 | 3+3 | 30° | 18 | 4,5 | B | HOMAG | DGM.125030043.2RB4 | DGM.125030043.2LB4 |
| 125 | 30 (DKN) | 45 | 47 | - | 3+3 | 32° | 18 | 4,5 | A | MASTERWOOD®, NANXING | DGM.125030045.0RA4 | DGM.125030045.0LA4 |
| 125 | 30 (DKN) | 45 | 25 | 47 | 3+3 | 30° | 18 | 4,5 | C | BIESSE | DGM.125030045.0RC4 | DGM.125030045.0LC4 |
| 125 | 30 (DKN) | 46 | 58,5 | 67 | 3+3 | 54° | 27 | 4,5 | D | BIESSE | DGM.125030046.TRA4 | DGM.125030046.TLA4 |
| 125 | 30 (DKN) | 46 | 42 | 50 | 4+4 | 54° | 40 | 4,5 | C | BIESSE, HOMAG | DGM.125030046.TS44 | |
| 125 | 30 (DKN) | 43 | 40 | 45 | 3+3 | 30° | 18 | 4,5 | C | HOMAG | DGM.125030043.1SA4 | |
| 125 | 30 (DKN) | 45 | 25 | 47 | 3+3 | 30° | 18 | 4,5 | C | BIESSE, HOMAG | DGM.125030045.0SC4 | |
| 125 | 30 (DKN) | 50 | 41 | 52 | 3+3 | 30° | 21 | 4,5 | B | EXITECH | DGM.125030050.0RB4 | DGM.125030050.0LB4 |
| 125 | 30 (DKN) | 64 | 40,6 | 66 | 3+3 | 30° | 24 | 4,5 | B | IMA, HOMAG | DGM.125030064.0RB4 | DGM.125030064.0LB4 |
| 125 | 30 (DKN) | 64 | 40 | 66 | 3+3 | 30° | 24 | 4,5 | C | HOMAG | DGM.125030064.0SC4 | |



Database of dedicated tools for Edgebanders.
Ask about Your model export@itertools.pl

DGL

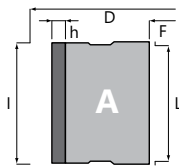


Technical details:

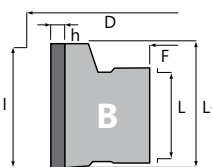
- Lightweight construction material, reduces vibrations, which translates into less wear of the bearings in the machine
- Blades ensuring a smooth surface of the processed edge
- The ability to customize the arrangement of the blades on the head, for example a symmetrical or asymmetrical arrangement
- The possibility of replacing DIA blades
- Noise reduction due to the particular geometry of the structure
- Body milled on both sides

Application:

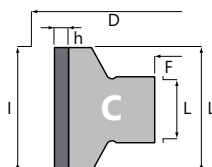
Diamond cutter heads intended for edge profiling for edge banding machines with mechanical feed. Suitable for MDF and chipboard panels.



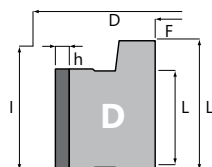
TYPE A



TYPE B



TYPE C



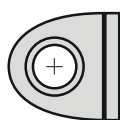
TYPE D

| D mm | F mm | I mm | L mm | L ₁ mm | Z | α | PLATES | PCD H mm | TYPE | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|-------------|---------|---------|----------------------|-----|-----|------------|-------------|------|-----------------|--------------------|--------------------|
| 60 | 20 (DKN) | 32 | 43,5 | - | 2+2 | 35° | 6 (A) | 2,5 | A | CEHISA | DGL.060020032.KRA3 | DGL.060020032.KLA3 |
| 60 | 20 (DKN) | 64 | 44 | 75,5 | 2+2 | 35° | 12 (A) | 2,5 | B | CEHISA | DGL.060020064.KRB3 | DGL.060020064.KLB3 |
| 60 | 25 (DKN) | 63 | 63,5 | 71 | 2+2 | 30° | 12(A)+2(B) | 2,5 | C | FRAVOL | DGL.060025063.0RA3 | DGL.060025063.0LA3 |
| 70 | 25 (DKN) | 43 | 51,5 | 61 | 2+2 | 30° | 8 (A) | 2,5 | D | HEBROCK | DGL.070025043.0RK3 | DGL.070025043.0LK3 |
| 70 | 20 (DKN) | 54 | 28 | 64 | 2+2 | 30° | 10 (A) | 2,5 | C | TORK MACHINE | DGL.070020054.0RC3 | DGL.070020054.0LC3 |
| 70 | 25 (DKN) | 63 | 71,5 | 81 | 2+2 | 30° | 12 (A) | 2,5 | D | HEBROCK | DGL.070025063.0RK3 | DGL.070025063.0LK3 |
| 80 | 25 (DKN) | 47 | 61 | 65 | 2+2 | 46° | 10 (A) | 2,5 | D | FELDER | DGL.080025047.1RA3 | DGL.080025047.1LA3 |
| 80 | 30 (DKN) | 65 | 76 | - | 3+3 | 30° | 18 (A) | 2,5 | A | FELDER | DGL.080025065.0RC3 | DGL.080025065.0LC3 |
| 80 | 30 (DKN) | 44 | 55 | - | 3+3 | 35° | 12 (A) | 2,5 | A | BIESSE | DGL.080030044.0SA3 | |
| 80 | 30 (DKN) | 54 | 65 | - | 3+3 | 35° | 10(A) | 2,5 | A | SCM | DGL.080030054.0RA3 | DGL.080030054.0LA3 |

Premill PSD Cutter Heads with Replaceable Plates for Edgebanding machines

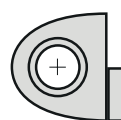
| D mm | F mm | I mm | L mm | L ₁ mm | Z | α | PLATES | PCD H mm | TYPE | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|-------------|---------|---------|----------------------|-----|-----|------------|-------------|------|------------------|--------------------|--------------------|
| 80 | 30 (DKN) | 65 | 54 | 75 | 3+3 | 35° | 18 (A) | 2,5 | C | BIESSE | DGL.080030065.2SC3 | |
| 80 | 25 (DKN) | 65 | 64 | 75 | 3+3 | 35° | 15(A)+6(B) | 2,5 | C | FELDER | DGL.080025065.0RC3 | DGL.080025065.0LC3 |
| 85 | 30 (DKN) | 48 | 50 | 58 | 3+3 | 35° | 12(A)+3(B) | 2,5 | B | OTT | DGL.085030048.0RB3 | DGL.085030048.0LB3 |
| 100 | 20 (DKN) | 65 | 42 | 77,5 | 3+3 | 35° | 18 (A) | 2,5 | B | CEHISA | DGL.100020065.KRB3 | DGL.100020065.KLB3 |
| 100 | 20 (DKN) | 33 | 42 | 45,5 | 3+3 | 35° | 9 (A) | 2,5 | B | CEHISA | DGL.100020033.KRB3 | DGL.100020033.KLB3 |
| 100 | 30 (DKN) | 44 | 40,6 | 54,5 | 3+3 | 35° | 12 (A) | 2,5 | B | BRANDT | DGL.100030044.1RB3 | DGL.100030044.1LB3 |
| 100 | 30 (DKN) | 44 | 40 | 54 | 3+3 | 35° | 12 (A) | 2,5 | C | BRANDT, SCM | DGL.100030044.1RC3 | DGL.100030044.1LC3 |
| 100 | 30 (DKN) | 51 | 60 | 61 | 2+2 | 35° | 8(A)+2(B) | 2,5 | D | SCM | DGL.100030051.KRB3 | DGL.100030051.KLB3 |
| 100 | 30 (DKN) | 51 | 60 | 61 | 3+3 | 35° | 12(A)+3(B) | 2,5 | D | SCM | DGL.100030051.KRB4 | DGL.100030051.KLB4 |
| 100 | 30 (DKN) | 84 | 56,5 | 92,5 | 2+2 | 30° | 16(A) | 2,5 | B | FRAVOL | DGL.100030084.0RB3 | DGL.100030084.0LB3 |
| 100 | 30 (DKN) | 124 | 96 | 132 | 2+2 | 30° | 22(A) | 2,5 | C | FRAVOL | DGL.100030124.0RC3 | DGL.100030124.0LC3 |
| 100 | 30 (DKN) | 65 | 59 | 75 | 2+2 | 35° | 10(A)+4(B) | 2,5 | D | SCM | DGL.100030065.KRB2 | DGL.100030065.KLB2 |
| 100 | 30 (DKN) | 65 | 59 | 75 | 3+3 | 35° | 12(A)+6(B) | 2,5 | D | SCM | DGL.100030065.KRB3 | DGL.100030065.KLB3 |
| 100 | 30 (DKN) | 65 | 60,5 | 78,5 | 3+3 | 46° | 21 (A) | 2,5 | B | SCM | DGL.100030065.4RB3 | DGL.100030065.4LB3 |
| 100 | 30 (DKN) | 44 | 54 | 58 | 3+3 | 46° | 15(A) | 2,5 | C | HOMAG | DGL.125030044.KR23 | DGL.125030044.KL23 |
| 125 | 30 (DKN) | 65 | 56,5 | 77 | 3+3 | 35° | 18 | 2,5 | B | IMA ADVANTAGE | DGL.125030065.KR03 | DGL.125030065.KL03 |
| 125 | 30 (DKN) | 65 | 45 | 75 | 3+3 | 35° | 18 | 2,5 | B | IMA HOMAG | DGL.125030065.1RB3 | DGL.125030065.1LB3 |

PCD insert TYPE A for Premill Cutters:



| H mm | L mm | TYPE | ARTICLE |
|---------|---------|------|-------------|
| 3 | 14 | A | DGL.14147.A |

PCD insert TYPE B for Premill Cutters:



| H mm | L mm | TYPE | ARTICLE |
|---------|---------|------|-------------|
| 3 | 7 | B | DGL.14147.B |

DGB

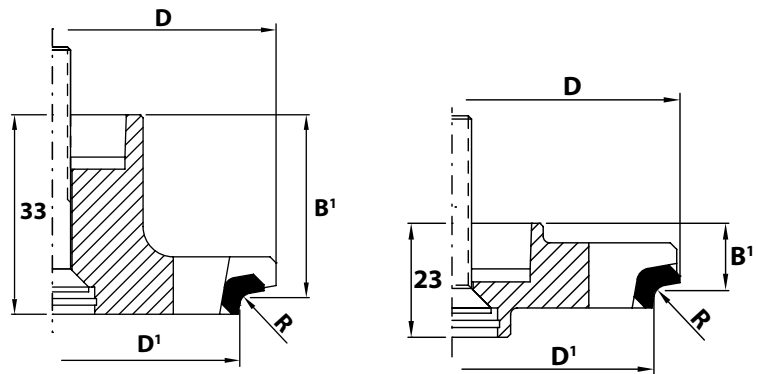


Technical details:

- Height of PCD tip 3 mm
- Can be resharpened (3-4 times)

Application:

Diamond cutter heads intended for edge profiling for edge banding machines with mechanical feed. Special construction for better facilitate chip evacuation. Suitable for MDF and chipboard panels.

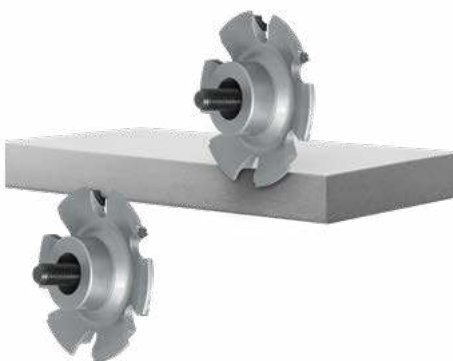


HSK32 Type 33:

| D mm | D' mm | MOUNTING mm | B' mm | R | Z | ARTICLE RH | ARTICLE LH |
|------|-------|-------------|-------|----|---|--------------------|--------------------|
| 74 | 70 | HSK32 | 31,5 | R1 | 4 | DGB.074032000.4RC2 | DGB.074032000.4LC2 |
| 74 | 70 | HSK32 | 31,5 | R2 | 4 | DGB.074032000.4RC1 | DGB.074032000.4LC1 |
| 74 | 70 | HSK32 | 31,5 | R3 | 4 | DGB.074032000.4RC3 | DGB.074032000.4LC3 |

HSK25R Type 23:

| D mm | D' mm | MOUNTING mm | B' mm | R | Z | ARTICLE RH | ARTICLE LH |
|------|-------|-------------|-------|----|---|--------------------|--------------------|
| 76 | 70 | HSK25R | 17,5 | R1 | 4 | DGB.076025000.4RC1 | DGB.076025000.4LC1 |
| 76 | 70 | HSK25R | 17,5 | R2 | 4 | DGB.076025000.4RC2 | DGB.076025000.4LC2 |



DGB



Technical details:

- Height of PCD tip 3 mm
- Can be resharpened (3-4 times)

Application:

Diamond cutter heads intended for edge profiling for edge banding machines with mechanical feed. Special construction for better facilitate chip evacuation. Suitable for MDF and chipboard panels.

Standard Type:

| D mm | D' mm | I mm | F mm | Z | R | PCD H mm | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|----------|---------|---------|-----|---|-------------|---------|--------------------|--------------------|
| 56 | 47 | 14,5 | 16(DKN) | 4 | 2 | 3 | HEBROCK | DGB.056016014.3RA0 | DGB.056016014.3LA0 |
| 57 | 50 | 12 | 20(DKN) | 2+2 | 2 | 3 | HOLZHER | DGB.057020023.3RA0 | DGB.057020023.3LA0 |
| 58 | 50 | 8 | 16(DKN) | 4 | 2 | 3 | SCM | DGB.058016008.0R00 | DGB.058016008.0L00 |
| 67 | 61 | | 16(DKN) | 4 | 1 | 4 | KTD | DGB.067016001.4RD0 | DGB.067016001.4LD0 |
| 69 | 61 | 13,5 | 16(DKN) | 4 | 2 | 4 | OTT | DGB.069016000.4RA0 | DGB.069016000.4LA0 |
| 72,5 | 61 | 19 | 20(DKN) | 4 | 2 | 3 | HOLZHER | DGB.073020019.3RA0 | DGB.073020019.3LA0 |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

GKN | GK2



Technical details:

- HM blades
- Additional grooves at the main hole
- Hole in tolerance H7

Application:

Cutter heads intended for edge profiling for edge banding machines with mechanical feed. Suitable for MDF and chipboard panels.

| D mm | I mm | F mm | Z | R | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|---------|----------|----|-----|---------|-------------------|-------------------|
| 55,3 | 5,5 | 16 (DKN) | 3 | 2 | SCM | GKN.055316005.00R | GKN.055316005.00L |
| 55,3 | 14 | 16 (DKN) | 3 | 2 | SCM | GKN.055316014.00R | GKN.055316014.00L |
| 55,3 | 21 | 16 (DKN) | 3 | 2 | SCM | GKN.055316021.00R | GKN.055316021.00L |
| 55,3 | 21 | 16 (DKN) | 3 | 1 | SCM | GKN.055316021.01R | GKN.055316021.01L |
| 63,6 | 30 | 16 (DKN) | 4 | 1/2 | SCM | GKN.062016030.01R | GKN.062016030.01L |
| 65 | 26 | 16 (DKN) | 3 | 1/2 | SCM | GKN.065016022.02R | GKN.065016022.02L |
| 69 | 15 | 16 (DKN) | 6 | 3 | VITAP | GKN.069024015.00R | GKN.069024015.00L |
| 69 | 15 | 16 (DKN) | 6 | 2 | VITAP | GKN.069024015.02R | GKN.069024015.02L |
| 107 | 6 | 40 | 12 | 2 | SCM | GK2.107040012.R2R | |

Compact PCD Hoggers for Long and Cross Side Cut

HOG Compact



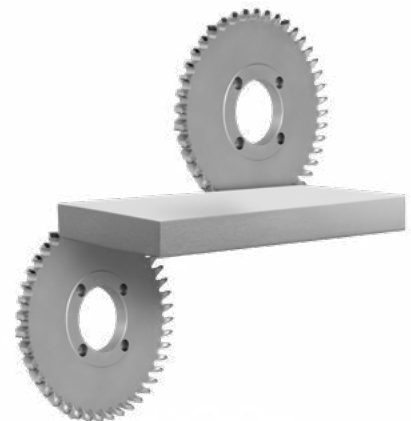
Technical details:

- Multi-blade configuration contraction finishing and chip breaker.
- Blade construction reducing working impact and tends to eliminate possible chippings or edge breaking
- The tips of the product have a one-sided stage shape.
- Low-vibration hardened steel body.
- Great chip removal
- Suitable for use with the most common clamping systems as hydraulic, mechanical and quick-change.
- H6 PCD tip
- Sharpened by LASER ABLATION technology

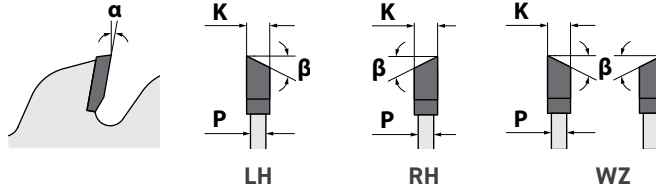
Application:

For formatting material on 2 or 4 sides edgbanding machines. Maintain high-quality finishing while working on very fast feed rates. For materials such as chipboard, MDF, HDF, plywood, honeycomb, and plywood panels with or without veneer, melamine, paper, or plastic coatings.

| D mm | I mm | F mm | Z | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|------|--------------------|--------------------|
| 250 | 12 | 60 | 42/6 | HOG.250060012.CR26 | HOG.250060012.CL26 |
| 250 | 12 | 80 | 42/6 | HOG.250080012.CR36 | HOG.250080012.CL36 |
| 250 | 12 | 100 | 42/6 | HOG.250100012.CR16 | HOG.250100012.CL16 |
| 250 | 12 | 60 | 48/6 | HOG.250060012.CR56 | HOG.250060012.CL56 |
| 250 | 12 | 80 | 48/6 | HOG.250080012.CR46 | HOG.250080012.CL46 |
| 250 | 12 | 100 | 48/6 | HOG.250100012.CR26 | HOG.250100012.CL26 |



PKA



Application:

For trimming and chamfering of plastic, veneer and solid wood edges.

Machines:

Edgebanders.

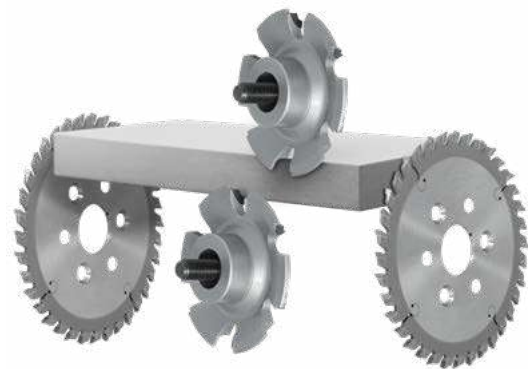
Materials:

Plastic (PCV, ABS), veneer and solid wood edges.

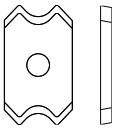
| D mm | F mm | PH | Z | K mm | α | TOOTH CONF. | MACHINES | ARTICLE |
|------|------|-----------|----|------|------|-------------|--------------------------------------|-------------------|
| 80 | 20 | | 16 | 2,4 | 2° | WZ | BIMATIC | PKA.080020016.P0A |
| 80 | 30 | | 12 | 3,2 | 10° | LH | BIMATIC | PKA.080030012.P0L |
| 80 | 30 | | 12 | 3,2 | 10° | RH | BIMATIC | PKA.080030012.P0R |
| 85 | 30 | | 12 | 3,2 | 10° | LH | BIMATIC | PKA.085030012.P0L |
| 85 | 30 | | 12 | 3,2 | 10° | RH | BIMATIC | PKA.085030012.P0R |
| 100 | 22 | PH:2/4/30 | 20 | 2,4 | -6° | WZ | HEBROCK | PKA.100022020.N0A |
| 100 | 22 | | 20 | 3,2 | 5° | WZ | FELDER FORMAT 4 PERFECT 610 / 710 | PKA.100022020.P1A |
| 100 | 30 | | 20 | 3,2 | 5° | WZ | FELDER G400 / G460 / G500 / G560 | PKA.100030020.P1A |
| 100 | 30 | | 30 | 2,6 | 5° | LH | SREFANI | PKA.100030030.P0L |
| 100 | 30 | | 30 | 2,6 | 5° | RH | STEFANI | PKA.100030030.P0R |
| 100 | 32 | | 20 | 3,2 | 5° | LH | BRANDT | PKA.100032020.P1L |
| 100 | 32 | | 20 | 3,2 | 5° | RH | BRANDT | PKA.100032020.P1R |
| 100 | 32 | | 30 | 2,6 | -10° | LH | BRANDT | PKA.100032030.N0L |
| 100 | 32 | | 30 | 2,6 | -10° | RH | BRANDT | PKA.100032030.N0R |
| 100 | 32 | | 30 | 2,6 | 5° | WZ | BRANDT | PKA.100032030.P0A |
| 100 | 32 | | 30 | 3,2 | 1,5° | LH | BRANDT | PKA.100032030.P3L |
| 100 | 32 | | 30 | 3,2 | 1,5° | RH | BRANDT | PKA.100032030.P3R |
| 110 | 22 | | 20 | 3,6 | 5° | WZ | HOLZ-HER | PKA.110022020.P0A |
| 110 | 32 | | 30 | 3,2 | 5° | LH | HOMAG, BRANDT, CEHISA | PKA.110032030.P0L |
| 110 | 32 | | 30 | 3,2 | 5° | RH | HOMAG, BRANDT, CEHISA | PKA.110032030.P0R |

Clipping Saw Blades for Edge Trimming

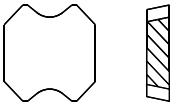
| D mm | F mm | PH | Z | K mm | α | TOOTH CONF. | MACHINES | ARTICLE |
|---------|---------|-----------------------------------|------|---------|----------|----------------|--------------------|-------------------|
| 115 | 30 | | 30 | 3,2 | 5° | WZ | SCM K360 K560 K800 | PKA.115030030.00A |
| 115 | 30 | | 30 | 3,2 | 5° | WZ 30° | SCM STEFANI | PKA.115030030.P0A |
| 125 | 30 | | 24 | 2,6 | 5° | LH | SCM | PKA.125030024.P0L |
| 125 | 30 | | 24 | 2,6 | 5° | RH | SCM | PKA.125030024.P0R |
| 125 | 30 | | 36 | 3,2 | Poz. | WZ 5° | SCM K360 K560 K100 | PKA.125030036.P1A |
| 125 | 32 | | 30 | 2,6 | Poz. | LH | BRANDT | PKA.125032030.P0L |
| 125 | 32 | | 30 | 2,6 | Poz. | RH | BRANDT | PKA.125032030.P0R |
| 130 | 45 | PH:4/4,5/55 | 20+4 | 3,6 | Poz. | LH 30° | BIESSE STREAM | PKA.130045020.P0L |
| 130 | 45 | PH:4/4,5/55 | 20+4 | 3,6 | Poz. | RH 30° | BIESSE STREAM | PKA.130045020.P0R |
| 140 | 16 | | 36 | 3,2 | Poz. | LH | OTT | PKA.140016036.P0L |
| 140 | 16 | | 36 | 3,2 | Poz. | RH | OTT | PKA.140016036.P0R |
| 140 | 30 | PH:3/8-12/40 LH + 3/8-12/40 RH | 30 | 3,6 | Poz. | WZ | BIESSE AKRON | PKA.140030030.00A |
| 150 | 35 | PH:4/6,5/50 LH | 24+6 | 3,8 | Poz. | LH | SCM | PKA.150035030.P0L |
| 150 | 35 | PH:4/6,5/50 RH | 24+6 | 3,8 | Poz. | RH | SCM | PKA.150035030.P0R |
| 160 | 22 | | 48 | 3,2 | Poz. | WZ | IMA | PKA.160022048.P0A |
| 170 | 30 | PH:4/5,5/52 | 36 | 3,2 | Poz. | WZ | | PKA.170030036.P0A |



Knives for Edgbanding Machines



| L mm | W mm | T mm | R | MACHINE | ARTICLE |
|---------|---------|---------|-----|---|---------------|
| 20,0 | 12,0 | 2,0 | 1,0 | SCM, FELDER, BRANDT, HOLZHER IMA, HOMAG | K15.20122R01 |
| 20,0 | 12,0 | 2,0 | 1,5 | | K15.20122R01s |
| 20,0 | 12,0 | 2,0 | 2,0 | | K15.20122R02 |
| 20,0 | 12,0 | 2,0 | 3,0 | | K15.20122R03 |



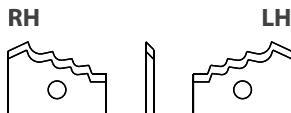
| L mm | W mm | T mm | R | MACHINE | ARTICLE |
|---------|---------|---------|---|-------------|--------------|
| 12,7 | 12,7 | 3,0 | 2 | SCM, BIESSE | K13.12123R02 |



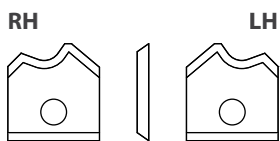
| L mm | W mm | T mm | R | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----|---------|----------------|----------------|
| 22,32 | 14,0 | 2,0 | 2,0 | BRANDT | K25.22142R02R | K25.22142R02L |
| 22,32 | 14,0 | 2,0 | 2,5 | BRANDT | K25.22142R02Rs | K25.22142R02Ls |
| 22,32 | 14,0 | 2,0 | 3,0 | BRANDT | K25.22142R03R | K25.22142R03L |



| L mm | W mm | T mm | R | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----|--------------------|-----------------|-----------------|
| 16,00 | 17,0 | 2,0 | 2,0 | FELDER G200 | KKC.16172.1R2RS | KKC.16172.1R2LS |
| 16,00 | 17,0 | 2,0 | 2,0 | FELDER G500 | KKC.16172.2R2RS | KKC.16172.2R2LS |
| 16,00 | 17,0 | 2,0 | 2,0 | FELDER G400 / G560 | KKC.16172.3R2RS | KKC.16172.3R2LS |
| 16,00 | 17,0 | 2,0 | 2,0 | FELDER G360 | KKC.16172.R02R | KKC.16172.R02L |
| 16,30 | 16,3 | 2,0 | 2,0 | FELDER TEMPORA | K26.16162R02R | K26.16162R02L |
| 18,00 | 16,0 | 2,0 | 2,0 | FELDER TEMPORA | K26.18162R02R | K26.18162R02L |

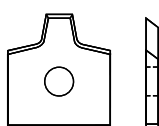


| L mm | W mm | T mm | R | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----------------|---------|----------------|----------------|
| 25,00 | 18,7 | 2,0 | 1,5 / 2,0 / 3,0 | BIESSE | KKG.25182.R | KKG.25182.L |
| 25,00 | 18,7 | 2,0 | 1,0 / 1,5 / 2,0 | BIESSE | KKG.25182.R1 | KKG.25182.L1 |
| 25,00 | 19,0 | 2,0 | 1,0 / 1,5 / 2,0 | BIESSE | KKG.251902.MPR | KKG.251902.MPL |



| L mm | W mm | T mm | R | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|---------|------------------|------------------|
| 16,0 | 17,5 | 2,0 | 2,0 | FELDER | KKJ.16172.R02R | KKJ.16172.R02L |
| 12,7 | 12,7 | 2,0 | 1,0/2,0 | SCM | KKN.121202.R1R2R | KKN.121202.R1R2L |

| L mm | W mm | T mm | R | MACHINE | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----|-------------------|---------------|---------------|
| 18,0 | 16,0 | 2,0 | 2,0 | FELDER TEMPORA | KPR.18.16.02R | KPR.18.16.02L |



| L mm | W mm | T mm | R | MACHINE | ARTICLE |
|---------|---------|---------|-----|-----------------|----------------|
| 16,0 | 14,0 | 2,0 | 1,0 | SCM STEFANI | KKE.16142.D01 |
| 16,0 | 14,0 | 2,0 | 2,0 | SCM STEFANI | KKE.16142.D02 |
| 16,0 | 15,0 | 2,0 | 1,0 | SCM STEFANI EVO | K23.16152R01 |
| 16,0 | 16,0 | 2,0 | 1,5 | BIESSE | K01.161602.R15 |
| 16,0 | 16,0 | 2,0 | 2,0 | BIESSE | K01.161602.R2 |
| 16,0 | 13,5 | 2,0 | 2,0 | BIMATIC | K161352 |
| 16,0 | 14,0 | 2,0 | 3,0 | BIMATIC | K161403 |

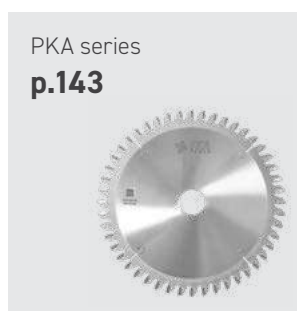
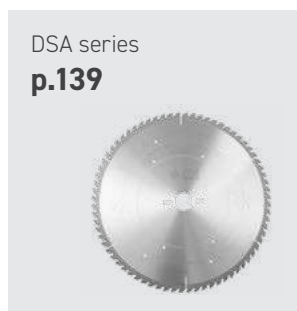
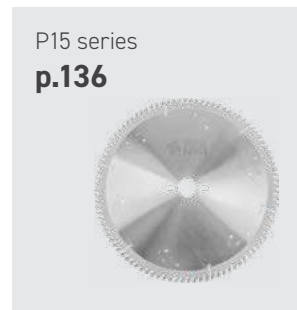
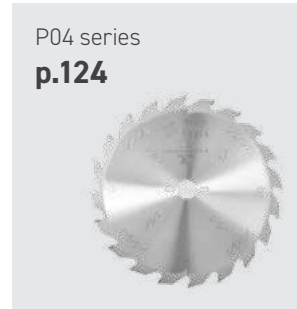
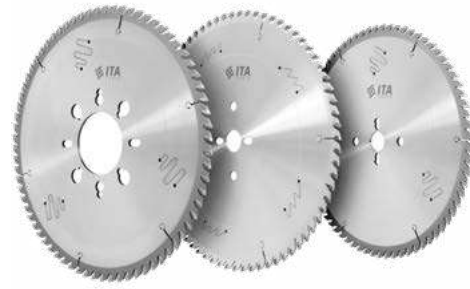


CUTTING PROCESS



Chapter

Diamond & HM Circular Saw Blades



PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

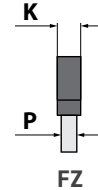
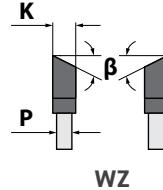
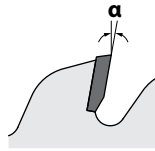
DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

Multi-Rip Saw Blades for Solid Wood

PW1



WZ

FZ

Application:

For solid dry and wet wood cutting. Longitudinal cut, wiper teeth helps easier cutting and better chip ejection.

Machines:

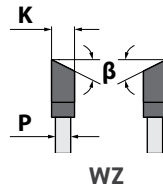
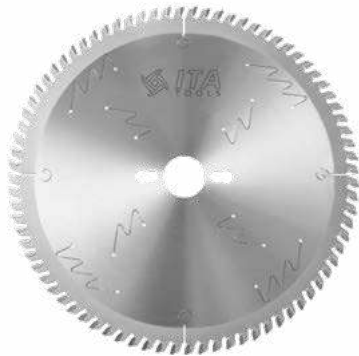
Multi-rip machines with one or two shafts.

Materials:

Solid wood (wet and dry).

| D mm | F mm | HOLES | Z | K mm | P mm | α | ARTICLE |
|---------|---------|---|------|---------|---------|-----|-------------------|
| 235 | 70 | 2/21x6 | 34 | 2,8 | 1,8 | 20° | PW1.235070034.000 |
| 250 | 70 | 4/20x5 | 16+4 | 3,5 | 2,2 | 20° | PW1.250070016.400 |
| 300 | 50 | 4/20x5 | 20+4 | 3,7 | 2,5 | 20° | PW1.300050020.400 |
| 300 | 70 | 4/20x5 | 18+4 | 3,7 | 2,5 | 20° | PW1.300070018.400 |
| 300 | 70 | 4/20x5 | 18+4 | 3,5 | 2,2 | 20° | PW1.300070018.400 |
| 300 | 80 | 4/20x5 | 18+4 | 3,7 | 2,5 | 20° | PW1.300080018.400 |
| 300 | 80 | 4/20x5 | 18+4 | 3,5 | 2,2 | 20° | PW1.300080018.400 |
| 300 | 80 | 2/18,5x3,5 + PH:6/5,5/91 + 4/6,6/95 + 2/13/100 | 24+4 | 3,2 | 2,2 | 20° | PW1.300080024.400 |
| 315 | 80 | 4/15x6 | 18+4 | 3,2 | 2,2 | 20° | PW1.315080018.400 |
| 350 | 70 | 4/20x5 | 18+4 | 4,2 | 2,8 | 20° | PW1.350070018.400 |
| 350 | 70 | 4/20,5x6 | 18+4 | 3,9 | 2,6 | 20° | PW1.350070018.401 |
| 350 | 70 | 4/20x5 | 18+4 | 4,0 | 2,7 | 20° | PW1.350070018.402 |
| 350 | 70 | 4/20,5x5 | 18+4 | 4,4 | 3,0 | 20° | PW1.350070018.403 |
| 350 | 80 | 4/20x5 | 18+4 | 4,2 | 2,8 | 20° | PW1.350080018.400 |
| 350 | 80 | 4/20x5 | 18+4 | 3,9 | 2,6 | 20° | PW1.350080018.401 |
| 350 | 80 | 4/20x5 | 18+4 | 4,0 | 2,7 | 20° | PW1.350080018.404 |
| 350 | 80 | 2/14x5 | 24+4 | 3,5 | 2,5 | 20° | PW1.350080024.400 |
| 350 | 80 | 2/18,5x3,5 + PH:6/5,5/91 + 4/6,6/95 + 2/13/100 | 24+6 | 3,5 | 2,5 | 20° | PW1.350080024.600 |
| 400 | 70 | 4/20x5 | 18+6 | 4,2 | 2,8 | 20° | PW1.400070018.600 |
| 400 | 80 | 4/20x5 | 18+6 | 4,2 | 2,8 | 20° | PW1.400080018.600 |

P01 cross-cutting



Application:

For cross-cutting while maintaining optimum material quality.
The saws have laser cutting silencing to improve the comfort of work.

Machines:

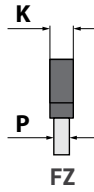
Table saws and mitre saws.

Materials:

Soft, hard and exotic wood, plywood.

| D mm | F mm | PH | Z | K mm | P mm | ARTICLE |
|---------|---------|------|-----|---------|---------|-------------------|
| 250 | 30 | PH03 | 48 | 3,2 | 2,2 | P01.250030048.00W |
| 250 | 30 | PH03 | 60 | 3,2 | 2,2 | P01.250030060.00W |
| 250 | 30 | PH03 | 80 | 3,2 | 2,2 | P01.250030080.00W |
| 300 | 30 | PH03 | 48 | 3,2 | 2,2 | P01.300030048.00W |
| 300 | 30 | PH03 | 72 | 3,2 | 2,2 | P01.300030072.00W |
| 300 | 30 | PH03 | 96 | 3,2 | 2,2 | P01.300030096.00W |
| 315 | 30 | PH03 | 72 | 3,2 | 2,2 | P01.315030072.00W |
| 350 | 30 | PH03 | 54 | 3,5 | 2,5 | P01.350030054.00W |
| 350 | 30 | PH03 | 84 | 3,5 | 2,5 | P01.350030084.00W |
| 350 | 30 | PH03 | 108 | 3,5 | 2,5 | P01.350030108.00W |
| 400 | 30 | PH03 | 60 | 3,5 | 2,5 | P01.400030060.00W |
| 450 | 30 | PH03 | 66 | 3,8 | 2,8 | P01.450030066.00W |
| 500 | 30 | PH03 | 72 | 4,0 | 2,8 | P01.500030072.00W |

P04 longitudinal cutting



Application:

For longitudinal cutting while maintaining optimum material quality.

Machines:

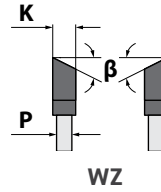
Table saws.

Material:

Soft, hard and exotic wood.

| D mm | F mm | PH | Z | K mm | P mm | ARTICLE |
|---------|---------|------|----|---------|---------|-------------------|
| 300 | 30 | PH03 | 20 | 3,2 | 2,2 | P04.300030020.00W |
| 315 | 30 | PH03 | 28 | 3,2 | 2,2 | P04.315030028.00W |
| 350 | 30 | PH03 | 24 | 3,5 | 2,5 | P04.350030024.00W |
| 400 | 30 | PH03 | 28 | 3,8 | 2,8 | P04.400030028.00W |
| 450 | 30 | PH03 | 32 | 4,0 | 3,0 | P04.450030032.00W |
| 500 | 30 | PH03 | 36 | 4,4 | 3,2 | P04.500030036.00W |

P06



Application:

For cross cutting and cutting out defects for high-speed feed.

Machines:

Optimizing saw.

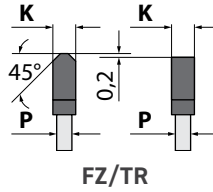
Materials:

Soft and hardwood.

| D mm | F mm | PH | Z | K mm | P mm | TOOTH CONF. | MACHINES | ARTICLE |
|---------|---------|-------------------|-----|---------|---------|----------------|----------------------------------|-------------------|
| 400 | 30 | PH03 | 120 | 4 | 2,8 | WZ | - | P06.400030120.00A |
| 450 | 30 | 2/15/63 | 138 | 4,8 | 3,5 | WZ 35° | SALVADOR OMGA | P06.450030138.02A |
| 500 | 30 | 2/10/60 + 2/15/63 | 144 | 4,8 | 3,5 | WZ 35° | METAL TECHNIKA OMGA, SALVADOR | P06.500030144.02A |
| 500 | 35 | 2/10/60 + 2/15/63 | 120 | 4,4 | 3,2 | WZ | SALVADOR CURSAL | P06.500035120.00A |
| 500 | 35 | 2/10/60 + 2/15/63 | 120 | 4,4 | 3,2 | WZ 35° | SALVADOR CURSAL | P06.500035120.02A |
| 500 | 35 | 2/10/60 + 2/15/63 | 144 | 4,8 | 3,5 | WZ | SALVADOR CURSAL | P06.500035144.01A |

Panel Sizing Saw Blades

P28 standard



Features and benefits:

- The thickness of the HM used is 3.5 mm, which ensures a long service life of the tool
- Laser-cut silencers reduce the noise level during operation

Application:

For sizing raw and laminated panels while maintaining a perfect edge finish.

Machines:

Panel sizing machines.

Materials:

One or two-sided laminated panels made of wood-based materials.

| D mm | F mm | PH | Z | K mm | P mm | MACHINES | ARTICLE |
|---------|---------|---------------------|----|---------|---------|--|-------------------|
| 300 | 30 | PH03 | 72 | 4,4 | 3,2 | PANHANS, FELDER | P28.300030072.00W |
| 300 | 60 | PH04 | 72 | 4,4 | 3,2 | HOMAG | P28.300060072.00W |
| 300 | 80 | PH01 | 72 | 4,4 | 3,2 | SCM | P28.300080072.02W |
| 310 | 60 | 2/14/100 | 72 | 4,4 | 3,2 | HOMAG | P28.310060072.00W |
| 320 | 30 | PH03 | 60 | 4,4 | 3,2 | FELDER | P28.320030060.00W |
| 320 | 30 | PH03 | 72 | 4,4 | 3,2 | FELDER, MAYER | P28.320030072.00W |
| 320 | 65 | PH05 | 60 | 4,4 | 3,2 | SELCO | P28.320065060.00W |
| 320 | 65 | PH05 | 72 | 4,4 | 3,2 | SELCO | P28.320065072.00W |
| 320 | 80 | PH01 | 72 | 4,4 | 3,2 | SCM | P28.320080072.00W |
| 350 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | PANHANS, SCHELLING, MAYER, HOLZ-HER, PAOLONI | P28.350030072.00W |
| 350 | 60 | PH04 | 72 | 4,4 | 3,2 | HOLZMA | P28.350060072.00W |
| 350 | 75 | PH02 | 72 | 4,4 | 3,2 | HOLZMA | P28.350075072.00W |
| 350 | 80 | PH01 | 72 | 4,4 | 3,2 | GABBIANI, SCM | P28.350080072.00W |
| 360 | 65 | PH05 + 2/9/95 | 72 | 4,4 | 3,2 | SELCO | P28.360065072.00W |
| 380 | 60 | 2/14/100 + 2/14/125 | 72 | 4,8 | 3,5 | HOLZMA | P28.380060072.00W |
| 380 | 60 | PH04 | 72 | 4,4 | 3,2 | HOLZMA | P28.380060072.01W |
| 380 | 65 | PH04 + 2/9/110 | 72 | 4,4 | 3,2 | SELCO | P28.380065072.01W |

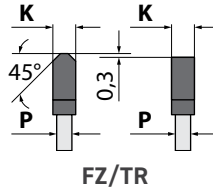
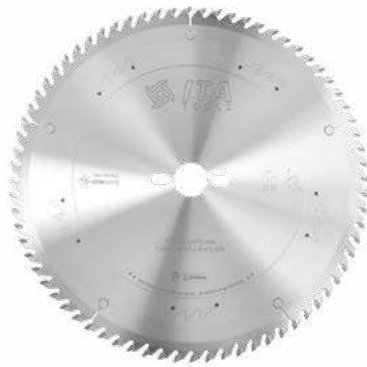
Panel Sizing Saw Blades

| D mm | F mm | PH | Z | K mm | P mm | MACHINES | ARTICLE |
|---------|---------|-------------------|----|---------|---------|---|-------------------|
| 380 | 80 | PH01 | 72 | 4,4 | 3,2 | SCM | P28.380080072.00W |
| 400 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | PANHANS, SCHEER, SCHELLING, MAYER, HOLZ-HER | P28.400030072.00W |
| 400 | 65 | PH05 | 72 | 4,4 | 3,2 | SELCO | P28.400065072.01W |
| 400 | 75 | PH02 + 2/7/110 | 72 | 4,4 | 3,2 | GIBEN, HOMAG | P28.400075072.00W |
| 400 | 80 | PH01 | 72 | 4,4 | 3,2 | SELCO, GABBIANI | P28.400080072.00W |
| 420 | 80 | PH01 | 72 | 4,4 | 3,2 | SCM | P28.420080072.00W |
| 430 | 65 | PH05 | 72 | 4,4 | 3,2 | SELCO | P28.430065072.00W |
| 430 | 80 | PH01 | 72 | 4,4 | 3,2 | SELCO | P28.430080072.00W |
| 450 | 30 | 2/10/60 + 2/13/94 | 72 | 4,4 | 3,2 | SCM, SCHELLING, MAYER | P28.450030072.00W |
| 450 | 60 | 2/14/125 | 72 | 4,8 | 3,5 | HOLZMA | P28.450060072.00W |
| 460 | 30 | 2/10/60 + 2/13/94 | 72 | 4,4 | 3,2 | SCHELLING | P28.460030072.00W |
| 480 | 30 | 2/10/60 + 2/13/94 | 72 | 4,4 | 3,2 | SCHELLING | P28.480030072.01W |

Information about addition holes you can find at the end of this catalogue.

Panel Sizing Saw Blades

P29 standard plus



Features and benefits:

- The thickness of the carbide used is 4 mm (for diameters from 350 mm).
- Chromium-nickel coated saw blade.
- Chamfered hole for easy tool change
- Soundproofing brass inserts

Application:

For sizing wood-based panels while maintaining a perfect edge finish. (Working with the scoring blade).

Machines:

Panel sizing machines.

Materials:

Single or double-sided plastic-laminated panels, MDF, HDF.

| D mm | F mm | PH | Z | K mm | P mm | α | MACHINES | ARTICLE |
|---------|---------|------------------------|----|---------|---------|----------|--|-------------------|
| 300 | 30 | PH03 | 72 | 4,4 | 3,2 | 14° | PANHANS | P29.300030072.00W |
| 300 | 80 | PH01 | 72 | 4,4 | 3,2 | 14° | SCM | P29.300080072.00W |
| 310 | 60 | PH:2/14/100 | 72 | 4,4 | 3,2 | 14° | HOLZMA, HOMAG | P29.310060072.00W |
| 320 | 30 | PH03 | 60 | 4,4 | 3,2 | 14° | FELDER | P29.320030060.00W |
| 320 | 30 | PH03 | 72 | 4,4 | 3,2 | 14° | FELDER | P29.320030072.00W |
| 320 | 65 | PH05 | 60 | 4,4 | 3,2 | 14° | SELCO | P29.320065060.01W |
| 320 | 65 | PH05 | 72 | 4,4 | 3,2 | 14° | SELCO | P29.320065072.00W |
| 320 | 80 | PH01 | 72 | 4,4 | 3,2 | 14° | SCM | P29.320080072.00W |
| 350 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | 14° | PANHANS, SCHELLING, MAYER, HOLZ-HER, PAOLONI | P29.350030072.00W |
| 350 | 60 | PH04 | 72 | 4,4 | 3,2 | 14° | HOLZMA | P29.350060072.00W |
| 360 | 65 | PH05 + 2/9/95 | 72 | 4,4 | 3,2 | 14° | SELCO | P29.360065072.00W |
| 380 | 60 | PH:2/14/100 + 2/14/125 | 72 | 4,8 | 3,5 | 14° | HOLZMA | P29.380060072.00W |
| 380 | 60 | PH04 | 72 | 4,4 | 3,2 | 14° | HOLZMA, HOMAG | P29.380060072.01W |
| 380 | 65 | PH04 + 2/9/110 | 72 | 4,4 | 3,2 | 14° | SELCO | P29.380065072.01W |

Panel Sizing Saw Blades

| D mm | F mm | PH | Z | K mm | P mm | α | MACHINES | ARTICLE |
|---------|---------|----------------------|----|---------|---------|----------|----------------------------------|-------------------|
| 380 | 80 | PH01 | 72 | 4,4 | 3,2 | 14° | SCM | P29.380080072.00W |
| 400 | 65 | PH05 | 72 | 4,4 | 3,2 | 14° | SELCO | P29.400065072.01W |
| 430 | 65 | PH05 | 72 | 4,4 | 3,2 | 14° | SELCO | P29.430065072.00W |
| 430 | 80 | PH01 | 72 | 4,4 | 3,2 | 14° | SELCO | P29.430080072.00W |
| 450 | 30 | PH:2/10/60 + 2/13/94 | 72 | 4,4 | 3,2 | 14° | SELCO, SCM, SCHELLING, MAYER | P29.450030072.00W |
| 450 | 60 | PH:2/14/125 | 72 | 4,8 | 3,5 | 14° | SCHELLING, MAYER, SCHEER, HOLZMA | P29.450060072.00W |
| 450 | 75 | PH02 + 2/7/110 | 72 | 4,4 | 3,2 | 14° | GABBIANI | P29.450075072.00W |
| 460 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | 14° | SCHELLING | P29.460030072.00W |
| 480 | 30 | PH:2/10/60 + 2/13/94 | 72 | 4,4 | 3,2 | 14° | SCHELLING | P29.480030072.01W |
| 520 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | 14° | SCHELLING | P29.520030072.00W |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITSPCD & VHM TOOLS FOR
COMPOSITESCHUCKS
& ACCESSORIESTOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

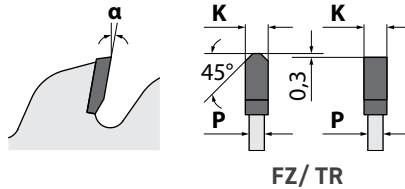
DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

Panel Sizing Saw Blades with super-hard NANO carbide

P30 NANO



Features and benefits:

- The thickness of the carbide used is 3.5 mm gives the possibility of multiple sharpening, which extends the life of the tool
- Special super-hard NANO carbide with increased wear resistance ensures longer distances between sharpening
- Two tension rings increase the stability of saw blade
- Polyurethane-filled silencers significantly reduce noise levels
- The main hole made in G6 tolerance
- Hardened steel body ensures rigidity and stability during operation

Application:

P30 series panel saw designed for materials such as MDF or HDF. Designed for cutting single boards as well as packages. Specially selected super-hard NANO carbide and an appropriate tooth profile (straight trapezoid) ensure the long life of the saw and excellent quality of processed material.

The P30 series saws are perfect for working with a diamond scoring unit DSB series, this set significantly reduces machine downtime caused by changing tools and will meet the expectations of the most demanding users.

Machines:

Horizontal panel sizing machines

Materials:

Single or double-sided plastic-laminated panels, MDF, HDF.



SUPER HARD CARBIDE WITH 3,5 mm THICKNESS
Longer work between sharpening



CHAMFERED HOLE
Easier tool change



IMPROVED TOOL BODY
More rigidity and stability while cutting



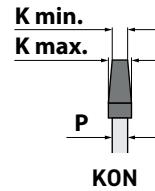
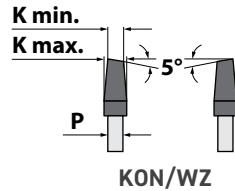
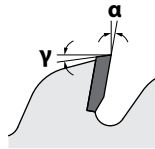
MUTED SAW BLADE
Quieter cutting operation

Panel Sizing Saw Blades with super-hard NANO carbide

| D mm | F mm | PH | Z | K mm | P mm | α | MACHINES | ARTICLE |
|---------|---------|-------------------------------------|----|---------|---------|-----|--|-------------------|
| 300 | 30 | PH03 | 60 | 4,4 | 3,0 | 15° | PANHANS, FELDER | P30.300030060.PFW |
| 300 | 30 | PH03 | 72 | 4,4 | 3,0 | 15° | PANHANS, FELDER | P30.300030072.PFW |
| 300 | 80 | PH01 | 60 | 4,4 | 3,2 | 15° | SCM | P30.300080060.PFW |
| 300 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | SCM | P30.300080072.PFW |
| 310 | 60 | PH:2/14/100 | 72 | 4,4 | 3,2 | 15° | HOMAG | P30.310060072.PFW |
| 320 | 30 | PH03 | 60 | 4,4 | 3,2 | 15° | FELDER | P30.320030060.PFW |
| 320 | 30 | PH03 | 72 | 4,4 | 3,2 | 15° | FELDER | P30.320030072.PFW |
| 320 | 65 | PH05 + 3/7/100 | 72 | 4,4 | 3,2 | 15° | SELCO | P30.320065072.PFW |
| 320 | 80 | PH:4/9/100 + 2/14/110 | 60 | 4,4 | 3,2 | 15° | SCM | P30.320080060.PFW |
| 320 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | SCM | P30.320080072.PFW |
| 340 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | - | P30.340080072.PFW |
| 350 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | 15° | PANHANS, SCHELLING, MAYER, HOLZ-HER, PALONI | P30.350030072.PFW |
| 350 | 60 | PH:COMBI7 | 72 | 4,4 | 3,2 | 15° | HOLZMA | P30.350060072.PFW |
| 350 | 75 | PH02 + 2/7/110 + 2/10/120 | 72 | 4,4 | 3,2 | 15° | HOLZMA, PUTSCH-MENICONI | P30.350075072.PFW |
| 350 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | GABBIANI, SCM | P30.350080072.PFW |
| 360 | 65 | PH: 2/9/100 + 2/9/110 | 72 | 4,4 | 3,2 | 15° | SELCO | P30.360065072.PFW |
| 380 | 30 | PH03 | 72 | 4,4 | 3,2 | 15° | HOLZ-HER | P30.380030072.PFW |
| 380 | 60 | PH04 | 72 | 4,4 | 3,2 | 15° | HOLZMA | P30.380060072.PF1 |
| 380 | 60 | PH:COMBI7 | 72 | 4,8 | 3,5 | 15° | HOLZMA | P30.380060072.PFW |
| 380 | 65 | PH05 | 72 | 4,4 | 3,2 | 15° | SELCO | P30.380065072.PFW |
| 380 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | SCM | P30.380080072.PFW |
| 400 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | 15° | PANHANS, SCHEER, SCHELLING, MAYER, HOLZ-HER | P30.400030072.PFW |
| 400 | 65 | PH05 | 72 | 4,4 | 3,2 | 15° | SELCO | P30.400065072.PFW |
| 400 | 75 | PH:4/15/105 + 2/8/110 + 2/14/110 | 72 | 4,4 | 3,2 | 15° | GIBEN, HOMAG | P30.400075072.PFW |
| 400 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | SELCO, GABBIANI | P30.400080072.PFW |
| 420 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | SCM | P30.420080072.PFW |
| 430 | 65 | PH02 + 2/9/110 | 72 | 4,4 | 3,2 | 15° | SELCO, GIBEN | P30.430065072.PFW |
| 430 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | SELCO, SCM | P30.430080072.PFW |
| 450 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | 15° | SCHELLING, MAYER | P30.450030072.PFW |
| 450 | 60 | PH:COMBI7 | 72 | 4,8 | 3,5 | 15° | HOLZMA | P30.450060072.PFW |
| 450 | 75 | PH:2/14/110 | 72 | 4,4 | 3,2 | 15° | MASTERWOOD | P30.450075072.PFW |
| 450 | 80 | PH01 | 72 | 4,4 | 3,2 | 15° | GABBIANI | P30.450080072.PFW |
| 460 | 30 | PH:2/13/94 | 72 | 4,4 | 3,2 | 15° | SCHELLING | P30.460030072.PFW |
| 480 | 30 | PH03 + 2/13/94 | 72 | 4,4 | 3,2 | 15° | SCHELLING | P30.480030072.PFW |
| 520 | 60 | PH:COMBI7 | 72 | 4,8 | 3,5 | 15° | HOLZMA | P30.520060072.PFW |
| 520 | 70 | PH:4/11/130 | 72 | 4,8 | 3,5 | 15° | SELCO | P30.520070072.PFW |
| 530 | 80 | PH01 | 72 | 4,8 | 3,5 | 15° | SCM | P30.530080072.PFW |

Scoring Blades for Panel Sizing Machines

P36



Application:

For undercutting laminated panels to ensure the highest quality edges of the cut material.

Machines:

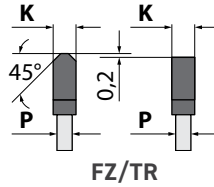
Panel sizing machines.

Materials:

Single or two-sided laminated wood-based panels (MDF, HDF).

| D mm | F mm | PH | Z | K mm | P mm | α | MACHINES | ARTICLE |
|---------|---------|---------------------------------|----|---------|---------|----------|------------------------|-------------------|
| 150 | 30 | - | 36 | 4,4-5,6 | 3,2 | 6° | SCM, STETON, FELDER | P36.150030036.003 |
| 150 | 45 | PH:2/9/58 + 2/11/70 | 36 | 4,4-5,6 | 3,2 | 6° | HOMAG | P36.150045036.000 |
| 160 | 55 | PH:3/11/70 | 36 | 4,4-5,6 | 3,2 | 6° | GABIANI, MACMAZZA, SCM | P36.160055036.000 |
| 180 | 30 | PH:2/10/60 | 36 | 4,4-5,6 | 3,2 | 6° | PANHANS, HOLZ-HER | P36.180030036.000 |
| 180 | 45 | PH:2/10/60 | 36 | 4,4-5,6 | 3,2 | 6° | HOLZMA | P36.180045036.001 |
| 180 | 45 | PH:2/10/60 | 36 | 4,8-6,0 | 3,5 | 6° | HOLZMA | P36.180045036.010 |
| 200 | 20 | PH:2/11/66 | 36 | 4,4-5,6 | 3,2 | 6° | SCHELLING | P36.200020036.005 |
| 200 | 45 | PH:2/10/60 | 36 | 4,4-5,6 | 3,2 | 6° | HOLZMA | P36.200045036.000 |
| 200 | 45 | - | 36 | 4,8-6,0 | 3,5 | 6° | HOLZMA | P36.200045036.010 |
| 200 | 65 | PH05 | 36 | 4,4-5,6 | 3,2 | 6° | SELCO | P36.200065036.000 |
| 200 | 80 | PH:2/14/110 | 36 | 4,4-5,6 | 3,2 | 6° | GABIANI | P36.200080036.000 |
| 300 | 30 | PH:2/10/60 + 2/14/110 + 2/13/94 | 48 | 4,4-5,9 | 3,2 | 6° | SCHELLING | P36.300030048.001 |

DSA



Features and benefits:

- High of PCD tips H4 or H6
- Longer lifetime compared to HM saw blades
- Cutting laminated panels without chipping thanks to work with scoring saw blade
- Very good lifetime/price ratio

Machines:

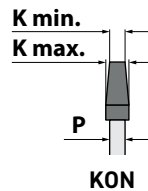
Panel sizing machines.

Materials:

Single or double-sided plastic-laminated panels, MDF and HDF.

| D mm | F mm | PH | Z | K mm | P mm | PCD H mm | MACHINES | ARTICLE |
|---------|---------|--------------------|----|---------|---------|-------------|-----------------|-------------------|
| 300 | 30 | 2/10/60 | 72 | 4,4 | 3,2 | 4 | FELDER, PANHANS | DSA.300030072.054 |
| 300 | 30 | 2/10/60 | 72 | 4,4 | 3,2 | 6 | FELDER, PANHANS | DSA.300030072.056 |
| 320 | 30 | 2/10/60 | 72 | 4,4 | 3,2 | 4 | FELDER | DSA.320030072.004 |
| 320 | 30 | 2/10/60 | 72 | 4,4 | 3,2 | 6 | FELDER | DSA.320030072.006 |
| 320 | 60 | PH04 | 72 | 4,4 | 3,2 | 4 | HOMAG | DSA.320060072.004 |
| 320 | 60 | PH04 | 72 | 4,4 | 3,2 | 6 | HOMAG | DSA.320060072.006 |
| 320 | 65 | PH05 + 2/9/95 | 72 | 4,4 | 3,2 | 4 | SELCO | DSA.320065072.014 |
| 320 | 65 | PH05 + 2/9/95 | 72 | 4,4 | 3,2 | 6 | SELCO | DSA.320065072.016 |
| 350 | 30 | 2/13/94 | 72 | 4,4 | 3,2 | 4 | SCHELLING | DSA.350030072.014 |
| 350 | 30 | 2/13/94 | 72 | 4,4 | 3,2 | 6 | SCHELLING | DSA.350030072.016 |
| 350 | 60 | 2/11/85 + 2/14/100 | 72 | 4,4 | 3,2 | 4 | HOLZMA | DSA.350060072.004 |
| 350 | 60 | 2/11/85 + 2/14/100 | 72 | 4,4 | 3,2 | 6 | HOLZMA | DSA.350060072.006 |
| 350 | 75 | 2/7/110 + 2/10/120 | 72 | 4,4 | 3,2 | 4 | HOLZMA | DSA.350075072.004 |
| 350 | 75 | 2/7/110 + 2/10/120 | 72 | 4,4 | 3,2 | 6 | HOLZMA | DSA.350075072.006 |
| 360 | 30 | 2/13/94 | 72 | 4,4 | 3,2 | 4 | SCHELLING | DSA.360030072.004 |
| 360 | 30 | 2/13/94 | 72 | 4,4 | 3,2 | 6 | SCHELLING | DSA.360030072.006 |
| 380 | 30 | 2/8/83 | 72 | 4,4 | 3,2 | 4 | HOLZ-HER | DSA.380030072.004 |
| 380 | 30 | 2/8/83 | 72 | 4,4 | 3,2 | 6 | HOLZ-HER | DSA.380030072.006 |
| 430 | 65 | PH05 | 60 | 4,4 | 3,5 | 6 | SELCO | DSA.430065060.016 |
| 430 | 65 | PH05 | 72 | 4,4 | 3,5 | 4 | SELCO | DSA.430065072.004 |
| 430 | 65 | PH05 | 72 | 4,4 | 3,5 | 6 | SELCO | DSA.430065072.006 |
| 450 | 60 | 2/10/80 + 2/14/125 | 60 | 4,8 | 3,5 | 6 | HOLZMA | DSA.450060060.006 |
| 450 | 60 | 2/14/125 | 72 | 4,8 | 3,5 | 6 | HOLZMA | DSA.450060072.006 |

DSB conical



Features and benefits:

- High of PCD tips H4 or H6
- Longer lifetime compared to HM scoring saw blades
- Undercutting laminated panels without chipping
- Very good lifetime/price ratio

Application:

For chip-free scoring of plastic-laminated panels; increased tool life up to 50 times longer than HW blades.

Machines:

Panel sizing machines.

Materials:

Single or double-sided plastic-laminated panels, MDF and HDF.

| D mm | F mm | PH | Z | K mm | P mm | PCD H mm | MACHINES | ARTICLE |
|---------|---------|-----------------------|----|---------|---------|-------------|---------------------|-------------------|
| 150 | 20 | - | 36 | 4,4-5,2 | 3,2 | H4 | | DSB.150020036.004 |
| 150 | 30 | - | 36 | 4,4-5,2 | 3,2 | H4 | SCM, STETON, FELDER | DSB.150030036.004 |
| 150 | 30 | - | 36 | 4,4-5,5 | 3,2 | H6 | SCM, STETON, FELDER | DSB.150030036.006 |
| 160 | 55 | PH:3/7/66 | 36 | 4,4-5,2 | 3,2 | H4 | GABIANI, SCM | DSB.160055036.004 |
| 160 | 55 | PH:3/7/66 | 36 | 4,4-5,6 | 3,2 | H6 | GABIANI, SCM | DSB.160055036.006 |
| 180 | 30 | PH:2/10/60 | 36 | 4,4-5,2 | 3,2 | H4 | PANHANS, HOLZ-HER | DSB.180030036.004 |
| 180 | 30 | PH:2/10/60 | 36 | 4,4-5,5 | 3,2 | H6 | PANHANS, HOLZ-HER | DSB.180030036.006 |
| 180 | 45 | PH:2/10/60 | 36 | 4,4-5,2 | 3,2 | H4 | HOLZMA | DSB.180045036.004 |
| 180 | 45 | PH:2/10/60 | 36 | 4,4-5,5 | 3,2 | H6 | HOLZMA | DSB.180045036.006 |
| 180 | 45 | - | 36 | 4,8-5,6 | 3,5 | H4 | HOLZMA | DSB.180045036.014 |
| 180 | 45 | - | 36 | 4,8-5,8 | 3,5 | H6 | HOLZMA | DSB.180045036.016 |
| 200 | 20 | PH:2/11/66 | 36 | 4,4-5,2 | 3,2 | H4 | SCHELLING | DSB.200020036.004 |
| 200 | 20 | PH:2/11/66 | 36 | 4,4-5,5 | 3,2 | H6 | SCHELLING | DSB.200020036.006 |
| 200 | 30 | PH:2/10/60 + 2/14/110 | 36 | 4,4-5,2 | 3,2 | H4 | Scheer | DSB.200030036.004 |
| 200 | 45 | PH:2/10/60 | 36 | 4,4-5,2 | 3,2 | H4 | HOLZMA | DSB.200045036.004 |
| 200 | 45 | - | 36 | 4,4-5,5 | 3,2 | H6 | HOLZMA | DSB.200045036.006 |

PCD Scoring Blades for Panel Sizing Machines

| D mm | F mm | PH | Z | K mm | P mm | PCD H mm | MACHINES | ARTICLE |
|---------|---------|------------------------------------|----|---------|---------|-------------|------------|-------------------|
| 200 | 45 | - | 36 | 4,8-5,6 | 3,5 | H4 | HOLZMA | DSB.200045036.014 |
| 200 | 45 | - | 36 | 4,8-5,8 | 3,5 | H6 | HOLZMA | DSB.200045036.016 |
| 200 | 50 | PH:2/7/80 | 36 | 4,4-5,2 | 3,2 | H4 | Masterwood | DSB.200050036.014 |
| 200 | 65 | PH05 | 36 | 4,4-5,2 | 3,2 | H4 | SELCO | DSB.200065036.004 |
| 200 | 65 | PH05 | 36 | 4,4-5,5 | 3,2 | H6 | SELCO | DSB.200065036.006 |
| 200 | 80 | PH:2/14/110 | 36 | 4,4-5,2 | 3,2 | H4 | GABBIANI | DSB.200080036.004 |
| 200 | 80 | PH:2/14/110 | 36 | 4,4-5,5 | 3,2 | H6 | GABBIANI | DSB.200080036.006 |
| 300 | 30 | PH:2/10/60 + 2/14/110 + 2/13/94 | 48 | 4,4-5,2 | 3,2 | H4 | SCHELLING | DSB.300030048.004 |
| 300 | 30 | PH:2/10/60 + 2/14/110 + 2/13/94 | 48 | 4,4-5,5 | 3,2 | H6 | SCHELLING | DSB.300030048.006 |
| 300 | 65 | PH:2/9/100 + 2/9/110 + 2/14/110 | 48 | 4,4-5,2 | 3,2 | H4 | SELCO | DSB.300065048.004 |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITSPCD & VHM TOOLS FOR
COMPOSITESCHUCKS
& ACCESSORIESTOOLS FOR EDGEBANDING
MACHINES

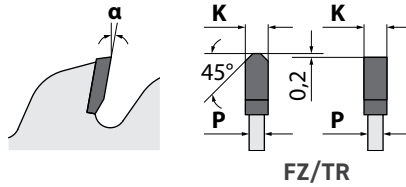
CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

P15



Application:

For sizing cuts, perfect finishing by working with scoring blades.

Machines:

Table saws, horizontal and vertical sizing machines.

Materials:

Single or double-sided laminated chipboards and wood-based materials.

| D mm | F mm | PH | Z | K mm | P mm | α | ARTICLE |
|---------|---------|------|-----|---------|---------|----------|-------------------|
| 250 | 30 | PH03 | 80 | 3,2 | 2,2 | 6° | P15.250030080.00W |
| 300 | 30 | PH03 | 96 | 3,2 | 2,2 | 6° | P15.300030096.01W |
| 350 | 30 | PH03 | 108 | 3,5 | 2,5 | 6° | P15.350030108.001 |
| 350 | 30 | PH03 | 108 | 3,2 | 2,2 | 6° | P15.350030108.01W |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

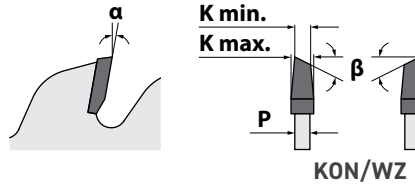
DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

Scoring Blades

P36 conical



Application:

For chip-free scoring on plastic-laminated panels to ensure excellent edge quality of the cut material.

Machines:

Horizontal and vertical sizing machines equipped with scoring device.

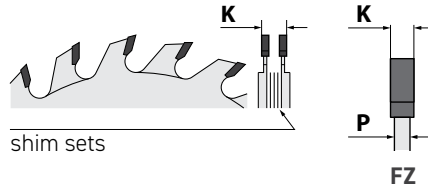
Materials:

One or two-sided laminated chipboards and wood-based panels.

| D mm | F mm | Z | K mm | P mm | α | ARTICLE |
|---------|---------|----|---------|---------|----------|-------------------|
| 100 | 20 | 20 | 3,1-4,3 | 2,2 | 6° | P36.100020020.000 |
| 100 | 22 | 20 | 3,1-4,3 | 2,2 | 6° | P36.100022020.000 |
| 120 | 20 | 24 | 3,1-4,3 | 2,2 | 0° | P36.120020024.000 |
| 120 | 22 | 24 | 3,1-4,3 | 2,2 | 0° | P36.120022024.000 |
| 125 | 20 | 24 | 3,1-4,3 | 2,2 | 0° | P36.125020024.000 |
| 125 | 22 | 24 | 3,1-4,3 | 2,2 | 0° | P36.125022024.000 |

Adjustable HM Scoring Blades

P37
adjustable



Application:

For chip-free scoring on plastic-laminated panels. To ensure the quality of the edges of the cut material. Control with spacers allows perfect adjustment to the kerf of the main saw.

Machines:

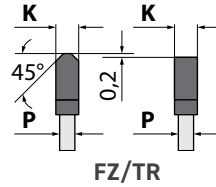
Horizontal and vertical sizing machines.

Materials:

Single or double-sided plastic-laminated panels, MDF and HDF.

| D mm | F mm | Z | K mm | P mm | α | ARTICLE |
|---------|---------|-------|---------|---------|----------|-------------------|
| 120 | 20 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | P37.120020024.000 |
| 120 | 22 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | P37.120022024.000 |
| 125 | 20 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | P37.125020024.000 |
| 125 | 22 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | P37.125022024.000 |

DSA



Features and benefits:

- High of PCD tips H4 or H6
- Longer lifetime compared to HM scoring saw blades
- Cutting laminated panels without chipping thanks to working with scoring blade
- Very good lifetime/price ratio

Machines:

Horizontal and vertical sizing machines.

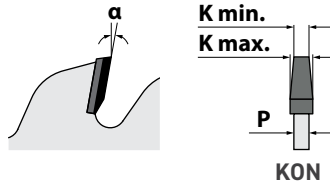
Materials:

Single or double-sided plastic-laminated panels, MDF and HDF.

| D mm | F mm | PH | Z | K mm | P mm | PCD H mm | ARTICLE |
|---------|---------|------|----|---------|---------|-------------|-------------------|
| 250 | 30 | PH03 | 80 | 3,2 | 2,2 | H5 | DSA.250030080.005 |
| 300 | 30 | PH03 | 72 | 3,2 | 2,2 | H4 | DSA.300030072.004 |
| 300 | 30 | PH03 | 96 | 3,2 | 2,2 | H4 | DSA.300030096.004 |
| 300 | 30 | PH03 | 96 | 3,2 | 2,2 | H6 | DSA.300030096.006 |

PCD Scoring Blades

DSB conical



Application:

For chip-free scoring of plastic-laminated panels; increased tool life up to 50 times longer than HW blades.

Machines:

Horizontal and vertical sizing machines equipped with scoring device.

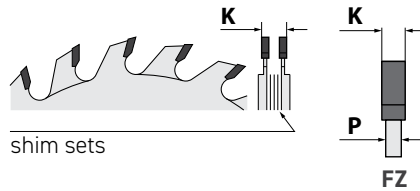
Materials:

One or two-sided laminated chipboards and wood-based panels.

| D mm | F mm | Z | K mm | P mm | α | PCD H mm | ARTICLE |
|---------|---------|----|---------|---------|----------|-------------|-------------------|
| 80 | 20 | 12 | 3,0-4,0 | 2,2 | 0° | H4 | DSB.080020012.004 |
| 100 | 20 | 20 | 3,0-4,0 | 2,5 | 0° | H4 | DSB.100020020.004 |
| 100 | 22 | 20 | 3,0-4,0 | 2,5 | 0° | H4 | DSB.100022020.004 |
| 120 | 20 | 24 | 3,0-4,0 | 2,5 | 8° | H4 | DSB.120020024.004 |
| 120 | 20 | 24 | 3,0-4,0 | 2,5 | 8° | H6 | DSB.120020024.006 |
| 120 | 22 | 24 | 3,0-4,0 | 2,5 | 8° | H4 | DSB.120022024.004 |
| 125 | 20 | 24 | 3,0-4,0 | 2,5 | 8° | H4 | DSB.125020024.004 |
| 125 | 20 | 24 | 3,0-4,0 | 2,5 | 8° | H6 | DSB.125020024.006 |
| 125 | 22 | 24 | 3,0-4,0 | 2,5 | 8° | H4 | DSB.125022024.004 |
| 125 | 22 | 24 | 3,0-4,0 | 2,5 | 8° | H6 | DSB.125022024.006 |

Adjustable PCD Scoring Blades

DSC
adjustable



Application:

For chip-free scoring on plastic-laminated panels. to ensure the quality of the edges of the cut material. Control with spacers allows perfect adjustment to the kerf of the main saw, service life up to 50 times longer compared to HM scoring saws, very good value lifetime to price.

Machines:

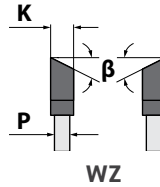
Horizontal and vertical sizing machines.

Materials:

Single or double-sided plastic-laminated panels, MDF and HDF.

| D mm | F mm | Z | K mm | P mm | α | PCD H mm | ARTICLE |
|---------|---------|-------|---------|---------|----------|-------------|-------------------|
| 80 | 20 | 10+10 | 2,8-3,6 | 2x2,2 | 10° | H4 | DSC.080020020.004 |
| 100 | 20 | 10+10 | 2,8-3,6 | 2x2,2 | 10° | H4 | DSC.100020020.004 |
| 120 | 20 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | H4 | DSC.120020024.004 |
| 120 | 20 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | H6 | DSC.120020024.006 |
| 120 | 22 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | H4 | DSC.120022024.004 |
| 125 | 20 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | H4 | DSC.125020024.004 |
| 125 | 20 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | H6 | DSC.125020024.006 |
| 125 | 22 | 12+12 | 2,8-3,6 | 2x2,2 | 10° | H4 | DSC.125022024.004 |

PDA



Application:

For different kinds of operation performed by aggregates, such us: grooving, sawing.

Machines:

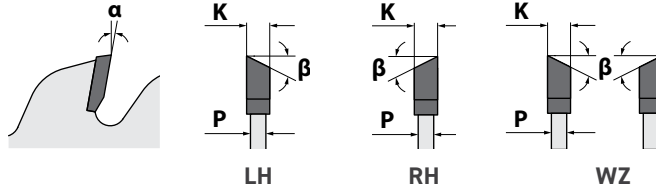
CNC machines equipped with sawing aggregate.

Materials:

Soft, hard wood and wood-based materials.

| D mm | F mm | PH | Z | K mm | P mm | MACHINES | ARTICLE |
|---------|---------|--------------------------------|----|---------|---------|-------------------|-------------------|
| 100 | 20 | | 24 | 3,2 | 2,2 | VITAP POINT | PDA.100020024.A00 |
| 100 | 30 | PH:4/M5/48 LH + 4/M5/48 RH | 20 | 3,4 | 2,2 | HOMAG, WEEKE, BHX | PDA.100030020.A00 |
| 100 | 30 | PH:4/5,5/50 | 24 | 4,0 | 2,8 | | PDA.100030024.P00 |
| 120 | 20 | PH:3/M4/35 LH + 3/M4/35 RH | 24 | 3,2 | 2,2 | SCM, CYFLEX | PDA.120020024.P01 |
| 120 | 20 | PH:3/M4/35 LH + 3/M4/35 RH | 24 | 4,0 | 2,8 | SCM, CYFLEX | PDA.120020024.P02 |
| 120 | 20 | PH:3/M4/35 LH + 3/M4/35 RH | 36 | 4,0 | 2,8 | SCM, CYFLEX | PDA.120020036.A01 |
| 120 | 35 | PH:4/M5/50 LH + 4/M5/50 RH | 16 | 4,0 | 2,8 | BIESSE, ROVER | PDA.120035016.P00 |
| 120 | 35 | PH:4/M5/50 LH + 4/M5/50 RH | 30 | 4,0 | 2,8 | BIESSE, ROVER | PDA.120035030.P00 |
| 120 | 35 | PH:4/M5/50 LH + 4/M5/50 RH | 36 | 3,2 | 2,2 | BIESSE, ROVER | PDA.120035036.A00 |
| 120 | 35 | PH:4/M5/50 LH + 4/M5/50 RH | 36 | 4,0 | 2,8 | BIESSE, ROVER | PDA.120035036.A01 |
| 125 | 20 | PH:3/M4/35 LH + 3/M4/35 RH | 36 | 3,2 | 2,2 | SCM, MORBIDELLI | PDA.125020036.A00 |
| 125 | 20 | PH:3/M4/35 LH + 3/M4/35 RH | 36 | 4,0 | 2,8 | SCM | PDA.125020036.A01 |
| 125 | 30 | PH:4/M5/48 LH + 4/M5/48 RH | 36 | 3,2 | 2,2 | HOMAG, WEEKE, BHX | PDA.125030036.A00 |
| 125 | 30 | PH:4/M5/48 LH + 4/M5/48 RH | 36 | 4,0 | 2,8 | HOMAG, WEEKE, BHX | PDA.125030036.A01 |
| 125 | 30 | PH:4/M5/48 LH + 4/M5/48 RH | 36 | 3,4 | 2,2 | HOMAG, WEEKE, BHX | PDA.125030036.A05 |
| 150 | 30 | PH:4/M6/48 LH + 4/M6/48 RH | 36 | 3,2 | 2,2 | HOMAG, WEEKE, BHX | PDA.150030036.A00 |
| 150 | 35 | PH:4/M6/48 LH + 4/M6/48 RH | 30 | 4,0 | 3,0 | | PDA.150035030.A00 |
| 150 | 35 | PH:4/M5/50 LH/RH + 2/5,9/46-49 | 30 | 4,0 | 3,0 | BIESSE SKIPPER | PDA.150035030.A03 |
| 150 | 35 | PH:2/6,5/48 | 36 | 4,0 | 3,0 | | PDA.150035036.A03 |
| 160 | 30 | PH: 3/6,5/40 | 36 | 3,2 | 2,2 | | PDA.160030036.A00 |
| 180 | 30 | PH:4/M5/54 RH | 36 | 4 | 2,8 | | PDA.180030036.P0R |

PKA



Application:

For trimming and chamfering of plastic, veneer and solid wood edges.

Machines:

Edgebanders.

Materials:

Plastic (PCV, ABS), veneer and solid wood edges.

| D mm | F mm | PH | Z | K mm | α | TOOTH CONF. | MACHINES | ARTICLE |
|------|------|-----------|----|------|------|-------------|--------------------------------------|-------------------|
| 80 | 20 | | 16 | 2,4 | 2° | WZ | BIMATIC | PKA.080020016.P0A |
| 80 | 30 | | 12 | 3,2 | 10° | LH | BIMATIC | PKA.080030012.P0L |
| 80 | 30 | | 12 | 3,2 | 10° | RH | BIMATIC | PKA.080030012.P0R |
| 85 | 30 | | 12 | 3,2 | 10° | LH | BIMATIC | PKA.085030012.P0L |
| 85 | 30 | | 12 | 3,2 | 10° | RH | BIMATIC | PKA.085030012.P0R |
| 100 | 22 | PH:2/4/30 | 20 | 2,4 | -6° | WZ | HEBROCK | PKA.100022020.N0A |
| 100 | 22 | | 20 | 3,2 | 5° | WZ | FELDER FORMAT 4 PERFECT 610 / 710 | PKA.100022020.P1A |
| 100 | 30 | | 20 | 3,2 | 5° | WZ | FELDER G400 / G460 / G500 / G560 | PKA.100030020.P1A |
| 100 | 30 | | 30 | 2,6 | 5° | LH | SREFANI | PKA.100030030.P0L |
| 100 | 30 | | 30 | 2,6 | 5° | RH | SREFANI | PKA.100030030.P0R |
| 100 | 32 | | 20 | 3,2 | 5° | LH | BRANDT | PKA.100032020.P1L |
| 100 | 32 | | 20 | 3,2 | 5° | RH | BRANDT | PKA.100032020.P1R |
| 100 | 32 | | 30 | 2,6 | -10° | LH | BRANDT | PKA.100032030.N0L |
| 100 | 32 | | 30 | 2,6 | -10° | RH | BRANDT | PKA.100032030.N0R |
| 100 | 32 | | 30 | 2,6 | 5° | WZ | BRANDT | PKA.100032030.P0A |
| 100 | 32 | | 30 | 3,2 | 1,5° | LH | BRANDT | PKA.100032030.P3L |
| 100 | 32 | | 30 | 3,2 | 1,5° | RH | BRANDT | PKA.100032030.P3R |
| 110 | 22 | | 20 | 3,6 | 5° | WZ | HOLZ-HER | PKA.110022020.P0A |
| 110 | 32 | | 30 | 3,2 | 5° | LH | HOMAG, BRANDT, CEHISA | PKA.110032030.P0L |
| 110 | 32 | | 30 | 3,2 | 5° | RH | HOMAG, BRANDT, CEHISA | PKA.110032030.P0R |

Clipping Saw Blades for Edge Trimming

| D mm | F mm | PH | Z | K mm | α | TOOTH CONF. | MACHINES | ARTICLE |
|---------|---------|-----------------------------------|------|---------|----------|----------------|--------------------|-------------------|
| 115 | 30 | | 30 | 3,2 | 5° | WZ | SCM K360 K560 K800 | PKA.115030030.00A |
| 115 | 30 | | 30 | 3,2 | 5° | WZ 30° | SCM STEFANI | PKA.115030030.P0A |
| 125 | 30 | | 24 | 2,6 | 5° | LH | SCM | PKA.125030024.P0L |
| 125 | 30 | | 24 | 2,6 | 5° | RH | SCM | PKA.125030024.P0R |
| 125 | 30 | | 36 | 3,2 | Poz. | WZ 5° | SCM K360 K560 K100 | PKA.125030036.P1A |
| 125 | 32 | | 30 | 2,6 | Poz. | LH | BRANDT | PKA.125032030.P0L |
| 125 | 32 | | 30 | 2,6 | Poz. | RH | BRANDT | PKA.125032030.P0R |
| 130 | 45 | PH:4/4,5/55 | 20+4 | 3,6 | Poz. | LH 30° | BIESSE STREAM | PKA.130045020.P0L |
| 130 | 45 | PH:4/4,5/55 | 20+4 | 3,6 | Poz. | RH 30° | BIESSE STREAM | PKA.130045020.P0R |
| 140 | 16 | | 36 | 3,2 | Poz. | LH | OTT | PKA.140016036.P0L |
| 140 | 16 | | 36 | 3,2 | Poz. | RH | OTT | PKA.140016036.P0R |
| 140 | 30 | PH:3/8-12/40 LH + 3/8-12/40 RH | 30 | 3,6 | Poz. | WZZ | BIESSE AKRON | PKA.140030030.00A |
| 150 | 35 | PH:4/6,5/50 LH | 24+6 | 3,8 | Poz. | LH | SCM | PKA.150035030.P0L |
| 150 | 35 | PH:4/6,5/50 RH | 24+6 | 3,8 | Poz. | RH | SCM | PKA.150035030.P0R |
| 160 | 22 | | 48 | 3,2 | Poz. | WZ | IMA | PKA.160022048.P0A |
| 170 | 30 | PH:4/5,5/52 | 36 | 3,2 | Poz. | WZ | | PKA.170030036.P0A |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITSPCD & VHM TOOLS FOR
COMPOSITESCHUCKS
& ACCESSORIESTOOLS FOR EDGEBANDING
MACHINES

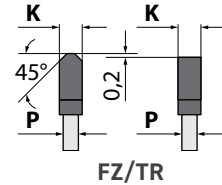
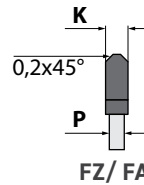
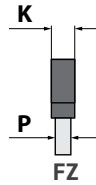
CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

DSR



Application:

For grooving materials such as MDF, HDF, plywood, veneered materials or not, covered with paper veneer or laminate. Very good price-life ratio.

Machines:

Table saws, vertical and horizontal panel saws.

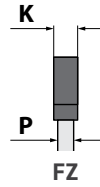
Materials:

MDF, HDF, plywood, veneered materials or not, covered with paper veneer or laminate.

| D mm | F mm | PH | Z | K mm | TOOTH CONF. | PCD H mm | ARTICLE |
|------|------|-----------------------------|----|------|-------------|----------|-------------------|
| 100 | 20 | - | 24 | 3,6 | FZ/FA | H4 | DSR.100020024.014 |
| 100 | 20 | - | 24 | 4,0 | FZ/FA | H4 | DSR.100020024.024 |
| 100 | 20 | - | 24 | 3,2 | FZ/FA | H4 | DSR.100020024.034 |
| 120 | 20 | 3/M4/35 RH + 3/M4/35 LH | 24 | 3,2 | FZ/FA | H4 | DSR.120020024.014 |
| 120 | 20 | 3/M4/35 LH + 3/M4/35 RH | 24 | 4,0 | FZ | H4 | DSR.120020024.024 |
| 120 | 35 | 4/M5/50 LH + 4/M5/50 RH | 20 | 4,0 | FZ/TR | H4 | DSR.120035020.004 |
| 120 | 35 | 4/M5/50 LH + 4/M5/50 RH | 24 | 3,4 | FZ/FA | H4 | DSR.120035024.004 |
| 150 | 35 | 4/M5/50 LH + RH + 2/6/46-49 | 30 | 4,0 | FZ/FA | H4 | DSR.150035030.004 |
| 150 | 65 | 6/M6/90 LH + 6/M6/90 RH | 36 | 4,0 | FZ/FA | H5 | DSR.150065036.025 |
| 200 | 65 | 6/M6/90 LH + 6/M6/90 RH | 48 | 4,0 | FZ | H6 | DSR.200065048.016 |

HM Grooving Saw Blades

P05



Application:

For grooving cuts or for rebating, chamfering, grooving and profiling as a set of tools. Allows multi-rip grooves using different kerf thickness.

Machines:

For double-end tenoner and moulding machines.

Materials:

Soft and hardwood, wood-based panels, plastic.

| D mm | F mm | Z | K mm | P mm | TOOTH CONF. | ARTICLE |
|---------|---------|----|---------|---------|----------------|-------------------|
| 125 | 30 | 12 | 1,5 | 1,2 | FZ | P05.125030012.15P |
| 125 | 30 | 12 | 1,8 | 1,2 | FZ | P05.125030012.18P |
| 125 | 30 | 12 | 2,0 | 1,4 | FZ | P05.125030012.20P |
| 125 | 30 | 12 | 2,5 | 1,6 | FZ | P05.125030012.25P |
| 125 | 30 | 12 | 3,0 | 2,0 | FZ | P05.125030012.30P |
| 125 | 30 | 12 | 3,5 | 2,5 | FZ | P05.125030012.35P |
| 125 | 30 | 12 | 4,0 | 2,8 | FZ | P05.125030012.40P |
| 125 | 30 | 12 | 4,5 | 3,2 | FZ | P05.125030012.45P |
| 125 | 30 | 12 | 5,0 | 4,0 | FZ | P05.125030012.50P |
| 125 | 30 | 12 | 6,0 | 4,0 | FZ | P05.125030012.60P |
| 150 | 30 | 18 | 1,8 | 1,2 | FZ | P05.150030018.18P |
| 150 | 30 | 18 | 2,0 | 1,4 | FZ | P05.150030018.20P |
| 150 | 30 | 18 | 2,5 | 1,6 | FZ | P05.150030018.25P |
| 150 | 30 | 18 | 3,0 | 2,0 | FZ | P05.150030018.30P |
| 150 | 30 | 18 | 3,5 | 2,5 | FZ | P05.150030018.35P |
| 150 | 30 | 18 | 4,0 | 2,8 | FZ | P05.150030018.40P |
| 150 | 30 | 18 | 5,0 | 4,0 | FZ | P05.150030018.50P |
| 150 | 30 | 18 | 6,0 | 4,0 | FZ | P05.150030018.60P |
| 150 | 30 | 18 | 7,0 | 6,0 | FZ | P05.150030018.70P |
| 150 | 30 | 18 | 8,0 | 6,0 | FZ | P05.150030018.80P |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

HM Grooving Saw Blades

| D mm | F mm | Z | K mm | P mm | TOOTH CONF. | ARTICLE |
|---------|---------|----|---------|---------|----------------|-------------------|
| 180 | 30 | 24 | 2,0 | 1,4 | FZ | P05.180030024.20P |
| 180 | 30 | 24 | 2,5 | 1,6 | FZ | P05.180030024.25P |
| 180 | 30 | 24 | 3,0 | 2,0 | FZ | P05.180030024.30P |
| 180 | 30 | 24 | 3,5 | 2,5 | FZ | P05.180030024.35P |
| 180 | 30 | 24 | 4,0 | 2,8 | FZ | P05.180030024.40P |
| 180 | 30 | 24 | 5,0 | 4,0 | FZ | P05.180030024.50P |
| 180 | 30 | 24 | 6,0 | 4,0 | FZ | P05.180030024.60P |
| 180 | 30 | 24 | 7,0 | 6,0 | FZ | P05.180030024.70P |
| 180 | 30 | 24 | 8,0 | 6,0 | FZ | P05.180030024.80P |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITSPCD & VHM TOOLS FOR
COMPOSITESCHUCKS
& ACCESSORIESTOOLS FOR EDGEBANDING
MACHINES

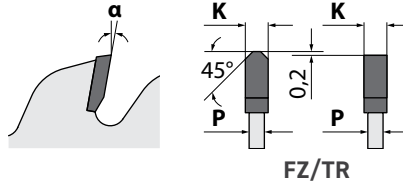
CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

PA1



Application:

Circular saw blade for cutting of non-ferrous profiles, plastic profiles (ex. PVC), etc., with wall thickness till 7 mm.

The material must always be well clamped to avoid vibration.

Narrow toothed saw blades for sawing thin walled non-ferrous and plastic profiles.

Machines:

For double cross cutting machines, CNC machines, mitre cutting machines, etc. Negative hook angle suited for cutting above.

Materials:

For cutting of non-ferrous profiles, plastic profiles (ex. PVC), etc., with wall thickness till 7 mm

Technical details:

Circular saw blade with triple chip flat grinded carbide teeth (HW). With negative hook angle and reinforced body for higher resistance to side hits and reduce vibrations. Suited for cutting from above. Blades are silenced.

| D mm | F mm | PH | Z | K mm | P mm | α | ARTICLE |
|---------|---------|---------|-----|---------|---------|----------|-------------------|
| 300 | 30 | PH03 | 96 | 3,2 | 2,6 | -5° | PA1.300030096.N00 |
| 300 | 30 | PH03 | 96 | 3,2 | 2,6 | 5° | PA1.300030096.P00 |
| 330 | 30 | PH03 | 102 | 3,6 | 3,0 | -5° | PA1.330030102.N00 |
| 330 | 30 | PH03 | 102 | 3,6 | 3,0 | 5° | PA1.330030102.P00 |
| 350 | 30 | PH03 | 108 | 3,6 | 3,0 | -5° | PA1.350030108.N00 |
| 350 | 30 | PH03 | 108 | 3,6 | 3,0 | 5° | PA1.350030108.P00 |
| 350 | 32 | 4/11/63 | 108 | 3,6 | 3,0 | -5° | PA1.350032108.N00 |
| 350 | 32 | 2/11/63 | 108 | 3,6 | 3,0 | 5° | PA1.350032108.P00 |
| 400 | 30 | PH03 | 120 | 4,0 | 3,2 | -5° | PA1.400030120.N00 |
| 400 | 30 | PH03 | 120 | 4,0 | 3,2 | 5° | PA1.400030120.P00 |
| 400 | 32 | 2/11/63 | 120 | 4,0 | 3,2 | -5° | PA1.400032120.N00 |
| 400 | 32 | 2/11/63 | 120 | 4,0 | 3,2 | 5° | PA1.400032120.P00 |
| 450 | 30 | PH03 | 128 | 4,0 | 3,2 | -5° | PA1.450030128.N00 |

Saw blades for processing non-ferrous & PVC profiles

| D mm | F mm | PH | Z | K mm | P mm | α | ARTICLE |
|---------|---------|-----------|-----|---------|---------|----------|-------------------|
| 450 | 30 | PH03 | 128 | 4,0 | 3,2 | 5° | PA1.450030128.P00 |
| 450 | 32 | 2/11/63 | 128 | 4,0 | 3,2 | -5° | PA1.450032128.N00 |
| 450 | 32 | 2/11/63 | 128 | 4,0 | 3,2 | 5° | PA1.450032128.P00 |
| 500 | 30 | 2/10,5/70 | 140 | 4,2 | 3,4 | -5° | PA1.500030140.N00 |
| 500 | 30 | 2/10,5/70 | 140 | 4,2 | 3,4 | 5° | PA1.500030140.P00 |
| 500 | 32 | 2/11/63 | 140 | 4,2 | 3,4 | -5° | PA1.500032140.N00 |
| 550 | 32 | 2/11/63 | 140 | 4,2 | 3,4 | 5° | PA1.500032140.P00 |
| 550 | 30 | 2/10,5/70 | 140 | 4,2 | 3,4 | 5° | PA1.550030140.P00 |
| 550 | 30 | 2/10,5/70 | 168 | 4,2 | 3,4 | 5° | PA1.550030168.P00 |
| 550 | 32 | 2/11/63 | 140 | 4,2 | 3,4 | 5° | PA1.550032140.P00 |
| 600 | 32 | 2/11/63 | 144 | 4,6 | 4,0 | 5° | PA1.600032144.P00 |
| 600 | 40 | 2/11/63 | 140 | 4,6 | 4,0 | 5° | PA1.600040140.P00 |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITSPCD & VHM TOOLS FOR
COMPOSITESCHUCKS
& ACCESSORIESTOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

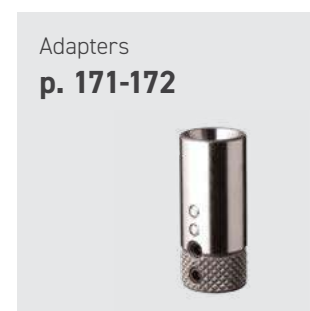
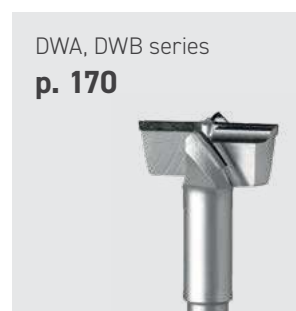
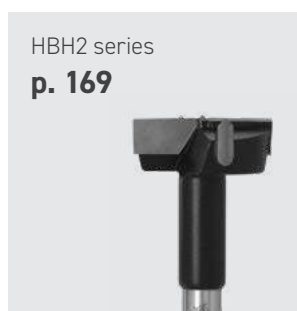
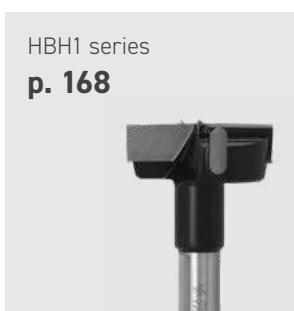
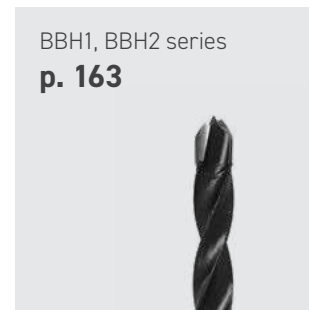
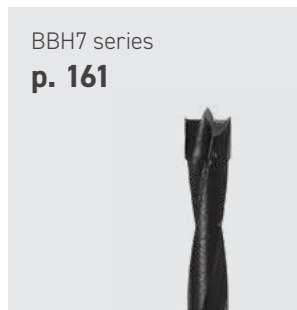
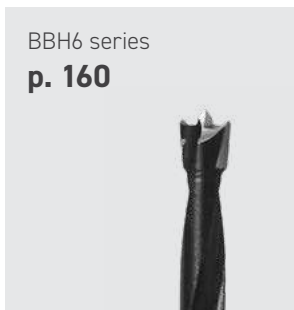
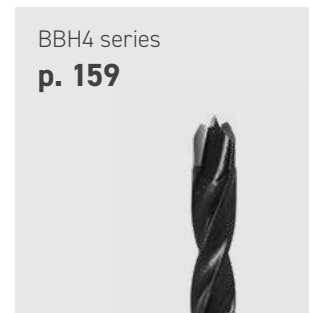
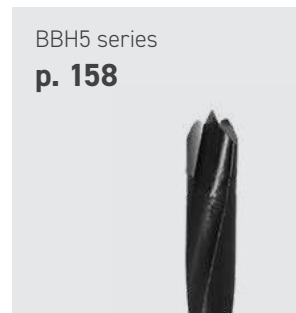
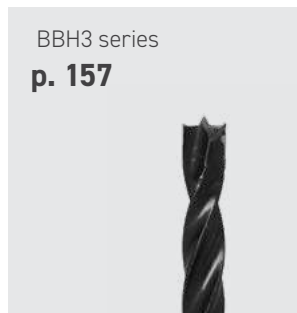
STARTER KIT



DRILLING PROCESS



Chapter
Drill bits



PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

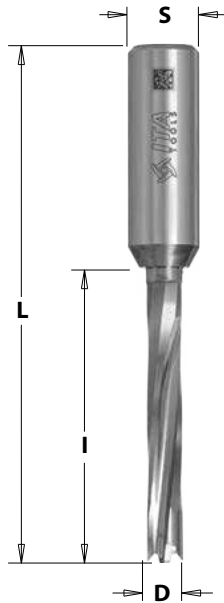
CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

BBXV



VHM

Z2

V2

RH

LH

Technical details:

- Premium quality super strength steel shank for improved resistance and durability
- Flute length in premium quality HWM
- 2 cutting edges [Z2] + 2 curved ground spurs [V2]
- 2 spiral flutes
- Parallel shank with driving flat and adjustable screw length
- Recommended feed speed $1 \div 4$ m/minute – RPM 6000

Application:

Ideal for chipboard, MDF, HDF and laminates. No center-point or spurs means perfect bores in low-thickness panels. For use on boring machines equipped with adaptors and/or with chucks.

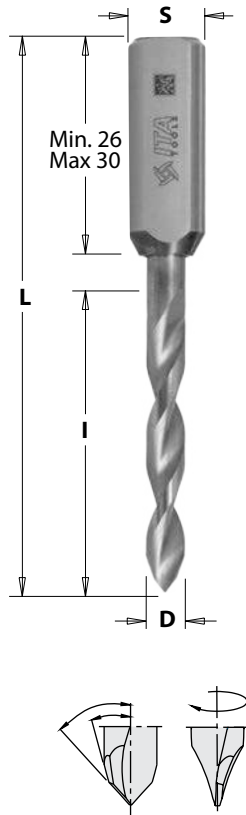
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 30 | 70 | 10x27 | BBXV.050.030.070.02R | BBXV.050.030.070.02L |
| 6 | 30 | 70 | 10x27 | BBXV.060.030.070.02R | BBXV.060.030.070.02L |
| 7 | 30 | 70 | 10x27 | BBXV.070.030.070.02R | BBXV.070.030.070.02L |
| 8 | 30 | 70 | 10x24 | BBXV.080.030.070.02R | BBXV.080.030.070.02L |
| 10 | 30 | 70 | 10x26 | BBXV.100.030.070.02R | BBXV.100.030.070.02L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

TBV2



Technical details:

- Premium quality super-strength steel shank
- High quality HWM body
- 2 precision ground cutting edges [Z2] - double angle
- 2 spiral flutes
- Parallel shank with driving flat and adjustable screw length

Application:

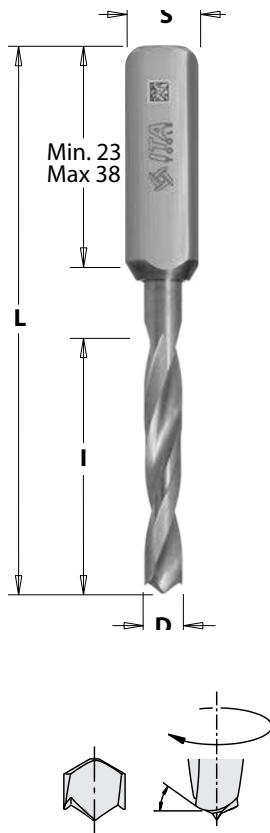
For drilling through holes in solid wood, wood derivatives and laminates.
For use on boring machine centres equipped with adaptors and/or chucks.

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 3 | 27 | 70 | 10x30 | TBV2.030.027.070.02R | TBV2.030.027.070.02L |
| 4 | 35 | 70 | 10x26 | TBV2.040.035.070.01R | TBV2.040.035.070.01L |
| 5 | 35 | 70 | 10x26 | TBV2.050.035.070.01R | TBV2.050.035.070.01L |
| 6 | 35 | 70 | 10x26 | TBV2.060.035.070.01R | TBV2.060.035.070.01L |
| 8 | 35 | 70 | 10x26 | TBV2.080.035.070.01R | TBV2.080.035.070.01L |
| 10 | 35 | 70 | 10x27 | TBV2.100.035.070.01R | TBV2.100.035.070.01L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.08 | BBS1.M5.11 |

BBV5 | BBV6



Technical details:

- Premium quality super-strength steel shank
- High quality HWM body
- Centre point
- 2 cutting edges [Z2]
- 2 spiral flutes
- 2 curved, negatively ground spurs [V2]
- Parallel shank with driving flat and adjustable screw length

Application:

For drilling blind holes in solid wood, wood derivatives and laminates.
For use on boring machines equipped with adaptors and/or with chucks.

BBV5

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 2 | 12 | 57,5 | 10x27 | BBV5.020.012.057.01R | BBV5.020.012.057.01L |
| 3 | 18 | 57,5 | 10x25 | BBV5.030.018.057.01R | BBV5.030.018.057.01L |
| 4 | 20 | 57,5 | 10x25 | BBV5.040.020.057.01R | BBV5.040.020.057.01L |
| 5 | 22 | 57,5 | 10x23 | BBV5.050.022.057.01R | BBV5.050.022.057.01L |
| 6 | 22 | 57,5 | 10x25 | BBV5.060.022.057.01R | BBV5.060.022.057.01L |
| 8 | 22 | 57,5 | 10x25 | BBV5.080.022.057.01R | BBV5.080.022.057.01L |
| 10 | 22 | 57,5 | 10x25 | BBV5.100.022.057.01R | BBV5.100.022.057.01L |

BBV6

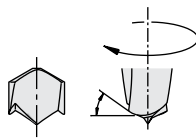
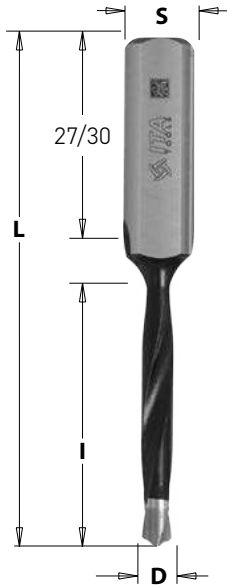
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 2 | 12 | 70 | 10x39 | BBV6.020.012.070.03R | BBV6.020.012.070.03L |
| 3 | 18 | 70 | 10x38 | BBV6.030.018.070.03R | BBV6.030.018.070.03L |
| 4 | 27 | 70 | 10x30 | BBV6.040.027.070.02R | BBV6.040.027.070.02L |
| 5 | 30 | 70 | 10x28 | BBV6.050.030.070.02R | BBV6.050.030.070.02L |
| 6 | 30 | 70 | 10x29 | BBV6.060.030.070.02R | BBV6.060.030.070.02L |
| 8 | 35 | 70 | 10x22 | BBV6.080.035.070.01R | BBV6.080.035.070.01L |
| 10 | 35 | 70 | 10x25 | BBV6.100.035.070.01R | BBV6.100.035.070.01L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

BBX5 | BBX6



Technical details:

- Premium quality super-strength steel
- Orange or black P.T.F.E. coating
- High quality extra-fine micrograin carbide body
- 2 cutting edges [Z2] - double angle
- 2 spiral flutes
- 2 curved, negatively ground spurs [V2]
- Parallel shank with driving flat and adjustable screw length

Application:

For drilling blind holes in solid wood, wood derivatives and laminates.
For use on boring machines equipped with adaptors and/or chucks.

BBX5

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 27 | 57,5 | 10x27 | BBX5.050.027.057.01R | BBX5.050.027.057.01L |
| 6 | 27 | 57,5 | 10x27 | BBX5.060.027.057.01R | BBX5.060.027.057.01L |
| 7 | 27 | 57,5 | 10x27 | BBX5.070.027.057.01R | BBX5.070.027.057.01L |
| 8 | 27 | 57,5 | 10x27 | BBX5.080.027.057.01R | BBX5.080.027.057.01L |
| 9 | 27 | 57,5 | 10x27 | BBX5.090.027.057.01R | BBX5.090.027.057.01L |
| 10 | 27 | 57,5 | 10x27 | BBX5.100.027.057.01R | BBX5.100.027.057.01L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

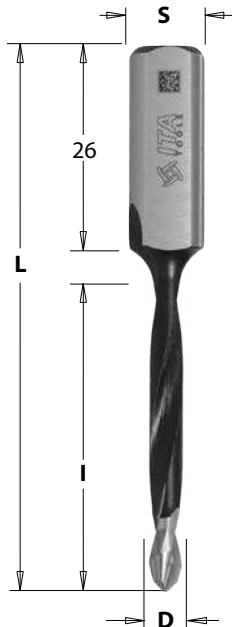
BBX6

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 35 | 70 | 10x30 | BBX6.050.035.070.02R | BBX6.050.035.070.02L |
| 6 | 35 | 70 | 10x30 | BBX6.060.035.070.02R | BBX6.060.035.070.02L |
| 7 | 35 | 70 | 10x30 | BBX6.070.035.070.02R | BBX6.070.035.070.02L |
| 8 | 35 | 70 | 10x30 | BBX6.080.035.070.02R | BBX6.080.035.070.02L |
| 9 | 35 | 70 | 10x30 | BBX6.090.035.070.02R | BBX6.090.035.070.02L |
| 10 | 35 | 70 | 10x30 | BBX6.100.035.070.02R | BBX6.100.035.070.02L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

TBX2



Technical details:

- Super-strength steel
- Spiral portion coated with orange or black P.T.F.E.
- Extra-fine micrograin carbide spiral portion with centre point
- HW head with precision balanced centre point
- 2 precision ground cutting edges [Z2]
- Double angle
- 2 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

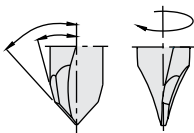
For drilling through holes in solid wood, wood derivatives and laminates.
For use on boring machines equipped with adaptors and/or chucks.

TBX2

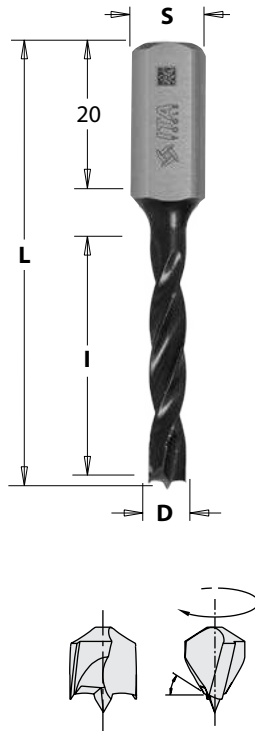
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 35 | 70 | 10x26 | TBX2.050.035.070.01R | TBX2.050.035.070.01L |
| 6 | 35 | 70 | 10x26 | TBX2.060.035.070.01R | TBX2.060.035.070.01L |
| 7 | 35 | 70 | 10x26 | TBX2.070.035.070.01R | TBX2.070.035.070.01L |
| 8 | 35 | 70 | 10x26 | TBX2.080.035.070.01R | TBX2.080.035.070.01L |
| 10 | 35 | 70 | 10x26 | TBX2.100.035.070.01R | TBX2.100.035.070.01L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |



BBH3



Technical details:

- Super-strength steel
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- Negatively ground spurs [V2]
- 4 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines equipped with adapters or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

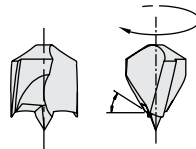
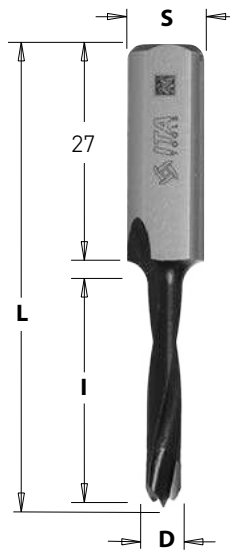
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 4 | 27 | 57,5 | 10x20 | BBH3.040.026.057.00R | BBH3.040.026.057.00L |
| 5 | 27 | 57,5 | 10x20 | BBH3.050.030.057.00R | BBH3.050.030.057.00L |
| 6 | 27 | 57,5 | 10x20 | BBH3.060.030.057.00R | BBH3.060.030.057.00L |
| 6,4 | 27 | 57,5 | 10x20 | BBH3.064.030.057.00R | BBH3.064.030.057.00L |
| 7 | 27 | 57,5 | 10x20 | BBH3.070.030.057.00R | BBH3.070.030.057.00L |
| 8 | 27 | 57,5 | 10x20 | BBH3.080.030.057.00R | BBH3.080.030.057.00L |
| 9 | 27 | 57,5 | 10x20 | BBH3.090.030.057.00R | BBH3.090.030.057.00L |
| 9,5 | 27 | 57,5 | 10x20 | BBH3.095.030.057.00R | BBH3.095.030.057.00L |
| 10 | 27 | 57,5 | 10x20 | BBH3.100.030.057.00R | BBH3.100.030.057.00L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

4 Flute Dowel Drills

BBH5



Technical details:

- Super-strength steel
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- Negatively ground spurs [V2]
- 4 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines equipped with adapters or chucks.

Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

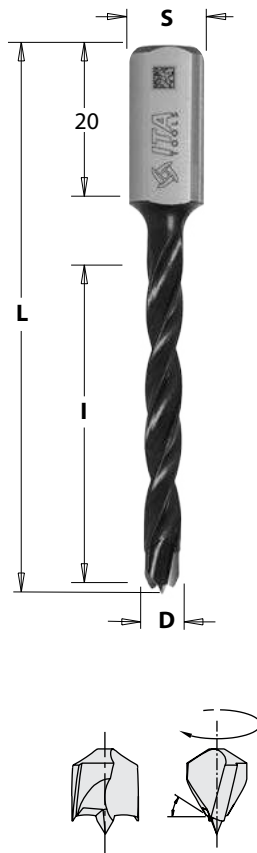
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 4 | 27 | 57,5 | 10x27 | BBH5.040.027.057.01R | BBH5.040.027.057.01L |
| 4,5 | 27 | 57,5 | 10x27 | BBH5.045.027.057.01R | BBH5.045.027.057.01L |
| 4,7 | 27 | 57,5 | 10x27 | BBH5.047.027.057.01R | BBH5.047.027.057.01L |
| 5 | 27 | 57,5 | 10x27 | BBH5.050.027.057.01R | BBH5.050.027.057.01L |
| 5,1 | 27 | 57,5 | 10x27 | BBH5.051.027.057.01R | BBH5.051.027.057.01L |
| 5,2 | 27 | 57,5 | 10x27 | BBH5.052.027.057.01R | BBH5.052.027.057.01L |
| 5,5 | 27 | 57,5 | 10x27 | BBH5.055.027.057.01R | BBH5.055.027.057.01L |
| 6 | 27 | 57,5 | 10x27 | BBH5.060.027.057.01R | BBH5.060.027.057.01L |
| 6,4 | 27 | 57,5 | 10x27 | BBH5.064.027.057.01R | BBH5.064.027.057.01L |
| 6,5 | 27 | 57,5 | 10x27 | BBH5.065.027.057.01R | BBH5.065.027.057.01L |
| 7 | 27 | 57,5 | 10x27 | BBH5.070.027.057.01R | BBH5.070.027.057.01L |
| 8 | 27 | 57,5 | 10x27 | BBH5.080.027.057.01R | BBH5.080.027.057.01L |
| 8,2 | 27 | 57,5 | 10x27 | BBH5.082.027.057.01R | BBH5.082.027.057.01L |
| 9 | 27 | 57,5 | 10x27 | BBH5.090.027.057.01R | BBH5.090.027.057.01L |
| 9,5 | 27 | 57,5 | 10x27 | BBH5.095.027.057.01R | BBH5.095.027.057.01L |
| 10 | 27 | 57,5 | 10x27 | BBH5.100.027.057.01R | BBH5.100.027.057.01L |
| 11 | 27 | 57,5 | 10x27 | BBH5.110.027.057.01R | BBH5.110.027.057.01L |
| 12 | 27 | 57,5 | 10x27 | BBH5.120.027.057.01R | BBH5.120.027.057.01L |
| 12,7 | 27 | 57,5 | 10x27 | BBH5.127.027.057.01R | BBH5.127.027.057.01L |
| 13 | 27 | 57,5 | 10x27 | BBH5.130.027.057.01R | BBH5.130.027.057.01L |
| 14 | 27 | 57,5 | 10x27 | BBH5.140.027.057.01R | BBH5.140.027.057.01L |
| 15 | 27 | 57,5 | 10x27 | BBH5.150.027.057.01R | BBH5.150.027.057.01L |
| 16 | 27 | 57,5 | 10x27 | BBH5.160.027.057.01R | BBH5.160.027.057.01L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

BBH4



Technical details:

- Super-strength steel
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- Negatively ground spurs [V2]
- 4 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines equipped with adapters or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

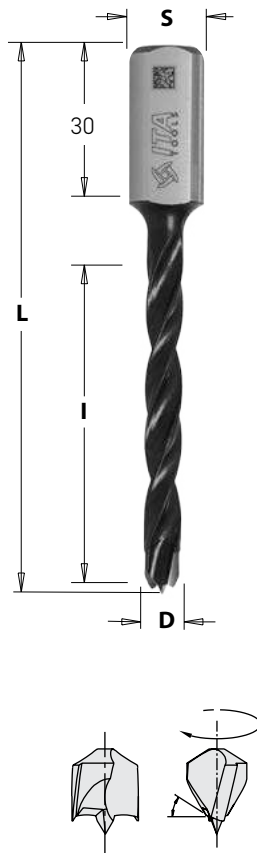
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 4 | 43 | 70 | 10x20 | BBH4.040.043.070.00R | BBH4.040.043.070.00L |
| 5 | 43 | 70 | 10x20 | BBH4.050.043.070.00R | BBH4.050.043.070.00L |
| 6 | 43 | 70 | 10x20 | BBH4.060.043.070.00R | BBH4.060.043.070.00L |
| 6,4 | 43 | 70 | 10x20 | BBH4.064.043.070.00R | BBH4.064.043.070.00L |
| 7 | 43 | 70 | 10x20 | BBH4.070.043.070.00R | BBH4.070.043.070.00L |
| 7,5 | 43 | 70 | 10x20 | BBH4.075.043.070.00R | BBH4.075.043.070.00L |
| 8 | 43 | 70 | 10x20 | BBH4.080.043.070.00R | BBH4.080.043.070.00L |
| 9 | 43 | 70 | 10x20 | BBH4.090.043.070.00R | BBH4.090.043.070.00L |
| 9,5 | 43 | 70 | 10x20 | BBH4.095.043.070.00R | BBH4.095.043.070.00L |
| 10 | 43 | 70 | 10x20 | BBH4.100.043.070.00R | BBH4.100.043.070.00L |
| 11 | 43 | 70 | 10x20 | BBH4.110.043.070.00R | BBH4.110.043.070.00L |
| 12 | 43 | 70 | 10x20 | BBH4.120.043.070.00R | BBH4.120.043.070.00L |
| 12,7 | 43 | 70 | 10x20 | BBH4.127.043.070.00R | BBH4.127.043.070.00L |
| 13 | 43 | 70 | 10x20 | BBH4.130.043.070.00R | BBH4.130.043.070.00L |
| 14 | 43 | 70 | 10x20 | BBH4.140.043.070.00R | BBH4.140.043.070.00L |
| 15 | 43 | 70 | 10x20 | BBH4.150.043.070.00R | BBH4.150.043.070.00L |
| 16 | 43 | 70 | 10x20 | BBH4.160.043.070.00R | BBH4.160.043.070.00L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

4 Flute Dowel Drills

BBH6



HM

Z2

V2

RH

LH

Technical details:

- Super-strength steel
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- Negatively ground spurs [V2]
- 4 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines equipped with adapters or chucks.

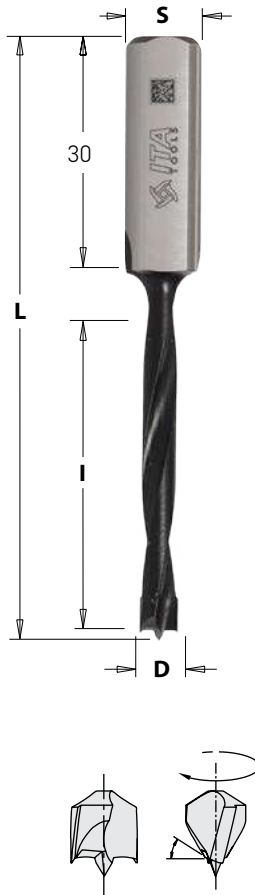
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 4 | 35 | 70 | 10x30 | BBH6.040.035.070.02R | BBH6.040.035.070.02L |
| 4,5 | 35 | 70 | 10x30 | BBH6.045.035.070.02R | BBH6.045.035.070.02L |
| 4,7 | 35 | 70 | 10x30 | BBH6.047.035.070.02R | BBH6.047.035.070.02L |
| 5 | 35 | 70 | 10x30 | BBH6.050.035.070.02R | BBH6.050.035.070.02L |
| 5,1 | 35 | 70 | 10x30 | BBH6.051.035.070.02R | BBH6.051.035.070.02L |
| 5,2 | 35 | 70 | 10x30 | BBH6.052.035.070.02R | BBH6.052.035.070.02L |
| 5,5 | 35 | 70 | 10x30 | BBH6.055.035.070.02R | BBH6.055.035.070.02L |
| 6 | 35 | 70 | 10x30 | BBH6.060.035.070.02R | BBH6.060.035.070.02L |
| 6,4 | 35 | 70 | 10x30 | BBH6.064.035.070.02R | BBH6.064.035.070.02L |
| 6,5 | 35 | 70 | 10x30 | BBH6.065.035.070.02R | BBH6.065.035.070.02L |
| 7 | 35 | 70 | 10x30 | BBH6.070.035.070.02R | BBH6.070.035.070.02L |
| 8 | 35 | 70 | 10x30 | BBH6.080.035.070.02R | BBH6.080.035.070.02L |
| 8,2 | 35 | 70 | 10x30 | BBH6.082.035.070.02R | BBH6.082.035.070.02L |
| 9 | 35 | 70 | 10x30 | BBH6.090.035.070.02R | BBH6.090.035.070.02L |
| 9,5 | 35 | 70 | 10x30 | BBH6.095.035.070.02R | BBH6.095.035.070.02L |
| 10 | 35 | 70 | 10x30 | BBH6.100.035.070.02R | BBH6.100.035.070.02L |
| 11 | 35 | 70 | 10x30 | BBH6.110.035.070.02R | BBH6.110.035.070.02L |
| 11,1 | 35 | 70 | 10x30 | BBH6.111.035.070.02R | BBH6.111.035.070.02L |
| 12 | 35 | 70 | 10x30 | BBH6.120.035.070.02R | BBH6.120.035.070.02L |
| 12,7 | 35 | 70 | 10x30 | BBH6.127.035.070.02R | BBH6.127.035.070.02L |
| 13 | 35 | 70 | 10x30 | BBH6.130.035.070.02R | BBH6.130.035.070.02L |
| 14 | 35 | 70 | 10x30 | BBH6.140.035.070.02R | BBH6.140.035.070.02L |
| 15 | 35 | 70 | 10x30 | BBH6.150.035.070.02R | BBH6.150.035.070.02L |
| 16 | 35 | 70 | 10x30 | BBH6.160.035.070.02R | BBH6.160.035.070.02L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

BBH7



Technical details:



- Super-strength steel
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- 2 negatively ground spurs [V2]
- 2 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines equipped with adapters or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 44 | 77 | 10x30 | BBH7.050.044.077.02R | BBH7.050.044.077.02L |
| 6 | 44 | 77 | 10x30 | BBH7.060.044.077.02R | BBH7.060.044.077.02L |
| 7 | 44 | 77 | 10x30 | BBH7.070.044.077.02R | BBH7.070.044.077.02L |
| 8 | 44 | 77 | 10x30 | BBH7.080.044.077.02R | BBH7.080.044.077.02L |
| 10 | 44 | 77 | 10x30 | BBH7.100.044.077.02R | BBH7.100.044.077.02L |
| 12 | 44 | 77 | 10x30 | BBH7.120.044.077.02R | BBH7.120.044.077.02L |

Spare parts:

| | |
|---|---|
|  |  |
| BBS1.M5.10 | BBS1.M5.11 |

BBH8 | BBH9



Technical details:

- Super-strength steel
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- Negatively ground spurs [V2]
- 4 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines equipped with adapters or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

BBH8

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 65 | 105 | 10x30 | BBH8.050.065.105.12R | BBH8.050.065.105.12L |
| 6 | 65 | 105 | 10x30 | BBH8.060.065.105.12R | BBH8.060.065.105.12L |
| 7 | 65 | 105 | 10x30 | BBH8.070.065.105.12R | BBH8.070.065.105.12L |
| 8 | 65 | 105 | 10x30 | BBH8.080.065.105.12R | BBH8.080.065.105.12L |
| 10 | 65 | 105 | 10x30 | BBH8.100.065.105.12R | BBH8.100.065.105.12L |
| 12 | 65 | 105 | 10x30 | BBH8.120.065.105.12R | BBH8.120.065.105.12L |

BBH9

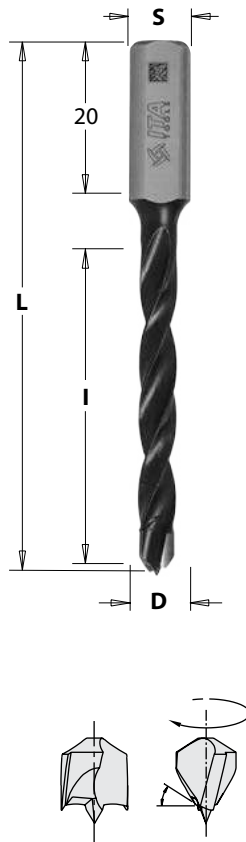
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 50 | 85 | 10x27 | BBH9.050.050.085.11R | BBH9.050.050.085.11L |
| 6 | 50 | 85 | 10x27 | BBH9.060.050.085.11R | BBH9.060.050.085.11L |
| 7 | 50 | 85 | 10x27 | BBH9.070.050.085.11R | BBH9.070.050.085.11L |
| 8 | 50 | 85 | 10x27 | BBH9.080.050.085.11R | BBH9.080.050.085.11L |
| 10 | 50 | 85 | 10x27 | BBH9.100.050.085.11R | BBH9.100.050.085.11L |
| 12 | 50 | 85 | 10x27 | BBH9.120.050.085.11R | BBH9.120.050.085.11L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

BBH1 | BBH2



Technical details:

- Super-strength steel
- Cutter portion coated with black or orange P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- Negatively ground spurs [V2]
- 4 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines equipped with adapters or chucks.
Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

BBH1

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 30 | 55,5 | 8x20 | BBH1.050.030.055.14R | BBH1.050.030.055.14L |
| 5,5 | 30 | 55,5 | 8x20 | BBH1.055.030.055.14R | BBH1.055.030.055.14L |
| 6 | 30 | 55,5 | 8x20 | BBH1.060.030.055.14R | BBH1.060.030.055.14L |
| 6,4 | 30 | 55,5 | 8x20 | BBH1.064.030.055.14R | BBH1.064.030.055.14L |
| 7 | 30 | 55,5 | 8x20 | BBH1.070.030.055.14R | BBH1.070.030.055.14L |
| 8 | 30 | 55,5 | 8x20 | BBH1.080.030.055.14R | BBH1.080.030.055.14L |
| 9 | 30 | 55,5 | 8x20 | BBH1.090.030.055.14R | BBH1.090.030.055.14L |
| 10 | 30 | 55,5 | 8x20 | BBH1.100.030.055.14R | BBH1.100.030.055.14L |
| 12 | 30 | 55,5 | 8x20 | BBH1.120.030.055.14R | BBH1.120.030.055.14L |

BBH2

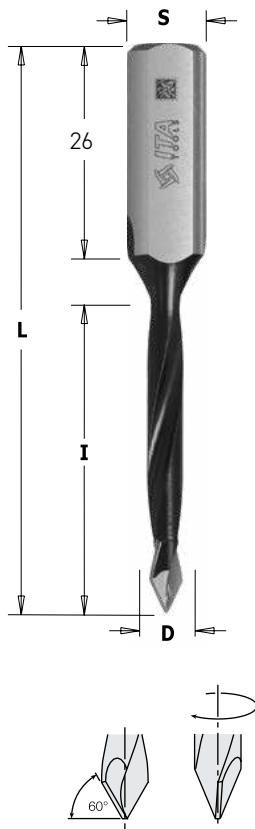
| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 40 | 67 | 8x20 | BBH2.050.040.067.14R | BBH2.050.040.067.14L |
| 5,5 | 40 | 67 | 8x20 | BBH2.055.040.067.14R | BBH2.055.040.067.14L |
| 6 | 40 | 67 | 8x20 | BBH2.060.040.067.14R | BBH2.060.040.067.14L |
| 6,4 | 40 | 67 | 8x20 | BBH2.064.040.067.14R | BBH2.064.040.067.14L |
| 7 | 40 | 67 | 8x20 | BBH2.070.040.067.14R | BBH2.050.070.067.14L |
| 8 | 40 | 67 | 8x20 | BBH2.080.040.067.14R | BBH2.080.040.067.14L |
| 9 | 40 | 67 | 8x20 | BBH2.090.040.067.14R | BBH2.090.040.067.14L |
| 10 | 40 | 67 | 8x20 | BBH2.100.040.067.14R | BBH2.100.040.067.14L |
| 12 | 40 | 67 | 8x20 | BBH2.120.040.067.14R | BBH2.120.040.067.14L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

2 Flute Dowel Drills for Through Holes

TBH1 | TBH2



Technical details:

- Super-strength steel
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- 2 precision ground cutting edges [Z2]
- 2 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines and dowel drilling devices.

Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.

TBH1

for panels with maximum **20 mm** in thickness

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 27 | 57,5 | 10x26 | TBH1.050.027.057.01R | TBH1.050.027.057.01L |
| 6 | 27 | 57,5 | 10x26 | TBH1.060.027.057.01R | TBH1.060.027.057.01L |
| 8 | 27 | 57,5 | 10x26 | TBH1.080.027.057.01R | TBH1.080.027.057.01L |
| 10 | 27 | 57,5 | 10x26 | TBH1.100.027.057.01R | TBH1.100.027.057.01L |

TBH2

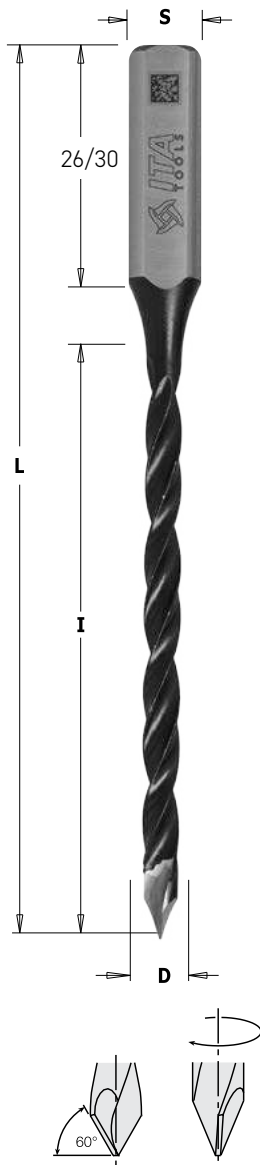
for panels with maximum **25-30 mm** in thickness

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 4 | 30 | 70 | 10x26 | TBH2.040.030.070.01R | TBH2.040.030.070.01L |
| 4,7 | 35 | 70 | 10x26 | TBH2.047.030.070.01R | TBH2.047.030.070.01L |
| 5 | 35 | 70 | 10x26 | TBH2.050.030.070.01R | TBH2.050.030.070.01L |
| 5,5 | 35 | 70 | 10x26 | TBH2.055.030.070.01R | TBH2.055.030.070.01L |
| 6 | 35 | 70 | 10x26 | TBH2.060.030.070.01R | TBH2.060.030.070.01L |
| 6,4 | 35 | 70 | 10x26 | TBH2.064.030.070.01R | TBH2.064.030.070.01L |
| 7 | 35 | 70 | 10x26 | TBH2.070.030.070.01R | TBH2.070.030.070.01L |
| 8 | 35 | 70 | 10x26 | TBH2.080.030.070.01R | TBH2.080.030.070.01L |
| 9 | 35 | 70 | 10x26 | TBH2.090.030.070.01R | TBH2.090.030.070.01L |
| 9,5 | 35 | 70 | 10x26 | TBH2.095.030.070.01R | TBH2.095.030.070.01L |
| 10 | 35 | 70 | 10x26 | TBH2.100.030.070.01R | TBH2.100.030.070.01L |
| 12 | 35 | 70 | 10x26 | TBH2.120.030.070.01R | TBH2.120.030.070.01L |
| 12,7 | 35 | 70 | 10x26 | TBH2.127.030.070.01R | TBH2.127.030.070.01L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

TBH3 | TBH5



Technical details:

- Super-strength steel
- Spiral portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- 2 precision ground cutting edges [Z2]
- 2 spiral flutes
- Parallel shank with driving flat and length adjusting screw

Application:

Used on boring machines and dowel drilling devices.

Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.

TBH3

for panels with maximum **40 mm** in thickness

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 44 | 77 | 10x26 | TBH3.050.044.077.01R | TBH3.050.044.077.01L |
| 6 | 44 | 77 | 10x26 | TBH3.060.044.077.01R | TBH3.060.044.077.01L |
| 8 | 44 | 77 | 10x26 | TBH3.080.044.077.01R | TBH3.080.044.077.01L |
| 10 | 44 | 77 | 10x26 | TBH3.100.044.077.01R | TBH3.100.044.077.01L |
| 12 | 44 | 77 | 10x26 | TBH3.120.044.077.01R | TBH3.120.044.077.01L |

TBH5

for panels with maximum **60-65 mm** in thickness

| D mm | l mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------|----------------------|----------------------|
| 5 | 70 | 115 | 10x30 | TBH5.050.070.115.12R | TBH5.050.070.115.12L |
| 6 | 70 | 115 | 10x30 | TBH5.060.070.115.12R | TBH5.060.070.115.12L |
| 8 | 70 | 115 | 10x30 | TBH5.080.070.115.12R | TBH5.080.070.115.12L |
| 10 | 70 | 115 | 10x30 | TBH5.100.070.115.12R | TBH5.100.070.115.12L |

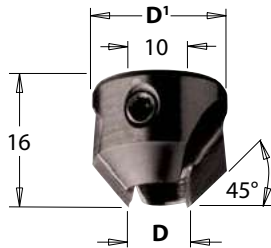
Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

Countersinks for 2 Flutes Dowel Drills

BBC1

Direct clamp on the shank of the drills



Technical details:

- Super-strength steel
- 2 precision ground carbide tipped cutting edges [Z2].

Application:

Used for chamfering and drilling in solid wood, wood composites, plastic and laminated materials.

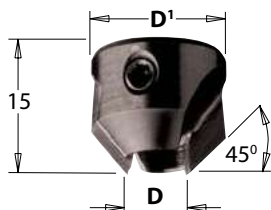
| D mm | D ¹ mm | ARTICLE RH | ARTICLE LH |
|---------|----------------------|-----------------|-----------------|
| 5 - 10 | 20 | BBC1.050.20.01R | BBC1.050.20.01L |
| 11 - 12 | 22 | BBC1.110.20.01R | BBC1.110.20.01L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.05 | 991.062.00 |

BBC2

Countersinks for 4 Flutes Dowel Drills



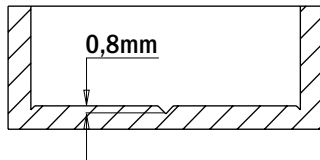
| D mm | D ¹ mm | ARTICLE RH | ARTICLE LH |
|---------|----------------------|------------------|------------------|
| 3 | 16 | BBC2.030.016.01R | BBC2.030.016.01L |
| 3,5 | 16 | BBC2.035.016.01R | BBC2.035.016.01L |
| 4 | 16 | BBC2.040.016.01R | BBC2.040.016.01L |
| 5 | 16 | BBC2.050.016.01R | BBC2.050.016.01L |
| 6 | 16 | BBC2.060.016.01R | BBC2.060.016.01L |
| 7 | 16 | BBC2.070.016.01R | BBC2.070.016.01L |
| 8 | 18 | BBC2.080.016.01R | BBC2.080.016.01L |
| 9 | 18 | BBC2.090.016.01R | BBC2.090.016.01L |
| 10 | 20 | BBC2.100.016.01R | BBC2.100.016.01L |
| 12 | 20 | BBC2.120.016.01R | BBC2.120.016.01L |

Spare parts:

| | |
|------------|------------|
| | |
| 990.006.00 | 991.062.00 |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGE BANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

HBX1 | HBX2



Technical details:

- Super-strength steel
- Cutter portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- 2 negatively ground spurs [V2]
- Parallel shank with driving flat and length adjusting screw

Application:

Ideal for hinges. Use on boring machines equipped with adapters or chucks. Use for drilling accurate and cleancut blind holes in solid wood, wood composites, plastic and laminated materials.

HBX1

| D mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----------------|-----------------|
| 15 | 57,5 | 10x26 | HBX1.150.057.1R | HBX1.150.057.1L |
| 18 | 57,5 | 10x26 | HBX1.180.057.1R | HBX1.180.057.1L |
| 20 | 57,5 | 10x26 | HBX1.200.057.1R | HBX1.200.057.1L |
| 25 | 57,5 | 10x26 | HBX1.250.057.1R | HBX1.250.057.1L |
| 26 | 57,5 | 10x26 | HBX1.260.057.1R | HBX1.260.057.1L |
| 35 | 57,5 | 10x26 | HBX1.350.057.1R | HBX1.350.057.1L |

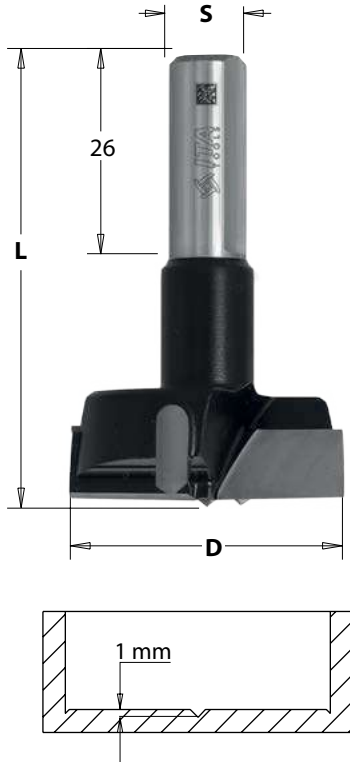
HBX2

| D mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----------------|-----------------|
| 15 | 70 | 10x26 | HBX2.150.070.1R | HBX2.150.070.1L |
| 18 | 70 | 10x26 | HBX2.180.070.1R | HBX2.180.070.1L |
| 20 | 70 | 10x26 | HBX2.200.070.1R | HBX2.200.070.1L |
| 25 | 70 | 10x26 | HBX2.250.070.1R | HBX2.250.070.1L |
| 26 | 70 | 10x26 | HBX2.260.070.1R | HBX2.260.070.1L |
| 35 | 70 | 10x26 | HBX2.350.070.1R | HBX2.350.070.1L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

HBH1



Technical details:

- Super-strength steel
- Cutter portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- HW precision ground cutting edges [Z2]
- 2 negatively ground spurs [V2]
- Parallel shank with driving flat and length adjusting screw

Application:

Ideal for hinges. Use on boring machines equipped with adapters or chucks. Use for drilling accurate and clean-cut blind holes in solid wood, wood composites, plastic and laminated materials.

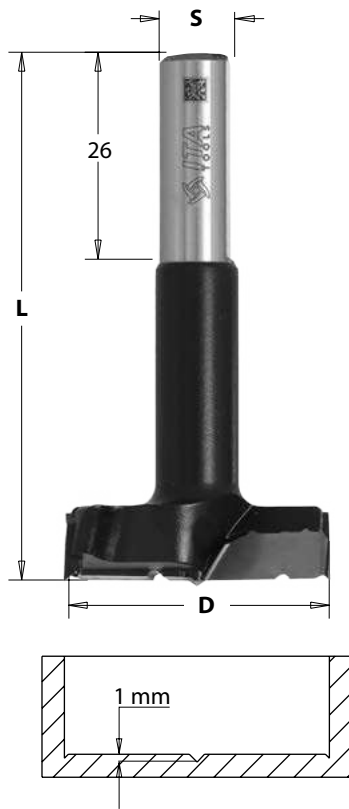
| D mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----------------|-----------------|
| 14 | 57,5 | 10x26 | HBH1.140.057.1R | HBH1.140.057.1L |
| 15 | 57,5 | 10x26 | HBH1.150.057.1R | HBH1.150.057.1L |
| 16 | 57,5 | 10x26 | HBH1.160.057.1R | HBH1.160.057.1L |
| 17 | 57,5 | 10x26 | HBH1.170.057.1R | HBH1.170.057.1L |
| 18 | 57,5 | 10x26 | HBH1.180.057.1R | HBH1.180.057.1L |
| 19 | 57,5 | 10x26 | HBH1.190.057.1R | HBH1.190.057.1L |
| 20 | 57,5 | 10x26 | HBH1.200.057.1R | HBH1.200.057.1L |
| 22 | 57,5 | 10x26 | HBH1.220.057.1R | HBH1.220.057.1L |
| 24 | 57,5 | 10x26 | HBH1.240.057.1R | HBH1.240.057.1L |
| 25 | 57,5 | 10x26 | HBH1.250.057.1R | HBH1.250.057.1L |
| 26 | 57,5 | 10x26 | HBH1.260.057.1R | HBH1.260.057.1L |
| 28 | 57,5 | 10x26 | HBH1.280.057.1R | HBH1.280.057.1L |
| 30 | 57,5 | 10x26 | HBH1.300.057.1R | HBH1.300.057.1L |
| 32 | 57,5 | 10x26 | HBH1.320.057.1R | HBH1.320.057.1L |
| 34 | 57,5 | 10x26 | HBH1.340.057.1R | HBH1.340.057.1L |
| 35 | 57,5 | 10x26 | HBH1.350.057.1R | HBH1.350.057.1L |
| 38 | 57,5 | 10x26 | HBH1.380.057.1R | HBH1.380.057.1L |
| 40 | 57,5 | 10x26 | HBH1.400.057.1R | HBH1.400.057.1L |
| 42 | 57,5 | 10x26 | HBH1.420.057.1R | HBH1.420.057.1L |
| 45 | 57,5 | 10x26 | HBH1.450.057.1R | HBH1.450.057.1L |
| 50 | 57,5 | 10x26 | HBH1.500.057.1R | HBH1.500.057.1L |
| 55 | 57,5 | 10x26 | HBH1.550.057.1R | HBH1.550.057.1L |
| 60 | 57,5 | 10x26 | HBH1.600.057.1R | HBH1.600.057.1L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
 PCD & VHM TOOLS FOR COMPOSITES
 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

HBH2



Technical details:

- Super-strength steel
- Cutter portion coated with orange or black P.T.F.E.
- HW head with precision balanced centre point
- 2 HW precision ground cutting edges [Z2]
- 2 negatively ground spurs [V2]
- Parallel shank with driving flat and length adjusting screw

Application:

Ideal for hinges. Use on boring machines equipped with adapters or chucks. Use for drilling accurate and clean-cut blind holes in solid wood, wood composites, plastic and laminated materials.

| D mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|-----------------|-----------------|
| 15 | 70 | 10x26 | HBH2.150.070.1R | HBH2.150.070.1L |
| 16 | 70 | 10x26 | HBH2.160.070.1R | HBH2.160.070.1L |
| 18 | 70 | 10x26 | HBH2.180.070.1R | HBH2.180.070.1L |
| 20 | 70 | 10x26 | HBH2.200.070.1R | HBH2.200.070.1L |
| 22 | 70 | 10x26 | HBH2.220.070.1R | HBH2.220.070.1L |
| 25 | 70 | 10x26 | HBH2.250.070.1R | HBH2.250.070.1L |
| 26 | 70 | 10x26 | HBH2.260.070.1R | HBH2.260.070.1L |
| 30 | 70 | 10x26 | HBH2.300.070.1R | HBH2.300.070.1L |
| 35 | 70 | 10x26 | HBH2.350.070.1R | HBH2.350.070.1L |
| 40 | 70 | 10x26 | HBH2.400.070.1R | HBH2.400.070.1L |
| 45 | 70 | 10x26 | HBH2.450.070.1R | HBH2.450.070.1L |
| 50 | 70 | 10x26 | HBH2.500.070.1R | HBH2.500.070.1L |
| 55 | 70 | 10x26 | HBH2.550.070.1R | HBH2.550.070.1L |
| 60 | 70 | 10x26 | HBH2.600.070.1R | HBH2.600.070.1L |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

DWA | DWB



Technical details:

- Body made of durable steel
- Diamond blades with a precisely centered central point
- 2 PCD cutting edges (Z2)
- 2 PCD scoring blades (V2)
- Cylindrical shank with milling for easier assembly in the holder

Application:

Perfect for drilling hinge holes on multi-spindles drilling machines with suitable quick couplings. For making sockets in hardwood, wood-based materials, plastic and laminated materials. Thanks to the use of PCD blades, the service life of these drill bits is several dozen times greater than conventional drill bits with HM blades.

Note: Other dimensions on order.

DWA

| D mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------------|---------------|
| 12 | 57,5 | 10 | DWA.012RH | DWA.012LH |
| 14 | 57,5 | 10 | DWA.014RH | DWA.014LH |
| 15 | 57,5 | 10 | DWA.015RH | DWA.015LH |
| 20 | 57,5 | 10 | DWA.020RH | DWA.020LH |
| 25 | 57,5 | 10 | DWA.025RH | DWA.025LH |
| 26 | 57,5 | 10 | DWA.026RH | DWA.026LH |
| 30 | 57,5 | 10 | DWA.030RH | DWA.030LH |
| 35 | 57,5 | 10 | DWA.035RH | DWA.035LH |
| 40 | 57,5 | 10 | DWA.040RH | DWA.040LH |

DWB

| D mm | L mm | S mm | ARTICLE RH | ARTICLE LH |
|---------|---------|---------|---------------|---------------|
| 12 | 70 | 10 | DWB.012RH | DWB.012LH |
| 14 | 70 | 10 | DWB.014RH | DWB.014LH |
| 15 | 70 | 10 | DWB.015RH | DWB.015LH |
| 20 | 70 | 10 | DWB.020RH | DWB.020LH |
| 25 | 70 | 10 | DWB.025RH | DWB.025LH |
| 26 | 70 | 10 | DWB.026RH | DWB.026LH |
| 30 | 70 | 10 | DWB.030RH | DWB.030LH |
| 35 | 70 | 10 | DWB.035RH | DWB.035LH |
| 40 | 70 | 10 | DWB.040RH | DWB.040LH |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.10 | BBS1.M5.11 |

PCD & HM TOOLS
 SOLID CARBIDE ROUTER BITS
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 CHUCKS & ACCESSORIES
 TOOLS FOR EDGEBANDING MACHINES
 CIRCULAR SAW BLADES
 DRILL BITS
 STRAIGHT & SYSTEM KNIVES
 STARTER KIT

WS1.018.012.042.001



RH
LH

Technical details:

For use on the machines: VITAP®

| D mm | D' mm | ARTICLE |
|---------|----------|---------------------|
| 10 | 18 | WS1.018.012.042.001 |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.04 | 991.062.00 |

WS1.020.010.043.001



RH
LH

Technical details:

For use on the machines: MORBIDELLI®

| D mm | D' mm | ARTICLE |
|---------|----------|---------------------|
| 10 | 19,25 | WS1.020.010.043.001 |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M5.04 | 991.062.00 |

WS1.020.014.040.001



RH
LH

Technical details:

For use on the machines: Masterwood®, Felder®, SCM®

| D mm | D' mm | ARTICLE |
|---------|----------|---------------------|
| 10 | 19,4 | WS1.020.014.040.001 |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M6.05 | 991.067.00 |

Adapters

WS1.020.017.046.001



RH
LH

Technical details:

For use on the machines: WEEKE®

| D mm | D' mm | ARTICLE |
|---------|----------|---------------------|
| 10 | 20 | WS1.020.017.046.001 |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M6.05 | 991.067.00 |

| INFO | ARTICLE |
|----------------------------|------------|
| Retaining screw for WEEKE® | BBS1.M5.11 |

WS1.020.015.037.001



RH

LH

Technical details:

For use on the machines: BIESSE®

| D mm | D' mm | ARTICLE RH | ARTICLE LH |
|---------|----------|---------------|---------------------|
| 10 | 20 | 360.001.01 | WS1.020.015.037.001 |

Spare parts:

| | |
|------------|------------|
| | |
| BBS1.M6.06 | 991.067.00 |

PCD & HM TOOLS
SOLID CARBIDE ROUTER BITS
PCD & VHM TOOLS FOR COMPOSITES
CHUCKS & ACCESSORIES
TOOLS FOR EDGEBANDING MACHINES
CIRCULAR SAW BLADES
DRILL BITS
STRAIGHT & SYSTEM KNIVES
STARTER KIT

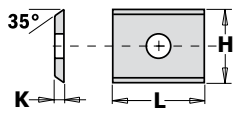


STRAIGHT AND SYSTEM KNIVES

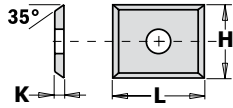


Reversible HM Knives

PCD & HM TOOLS

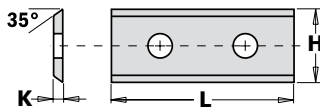


| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|-------|--------|--------|--------|
| 7,5 | 12 | 1,5 | 35° | 75122 | 375122 | | |
| 7,65 | 12 | 1,5 | 35° | 76122 | | | |
| 9,6 | 12 | 1,5 | 35° | 96122 | 396122 | 496122 | |
| 15 | 12 | 1,5 | 35° | 15122 | 315122 | 415122 | |
| 19,5 | 12 | 1,5 | 4/35° | 19122 | | | |
| 20 | 12 | 1,5 | 35° | 20122 | 320122 | 420122 | 220122 |



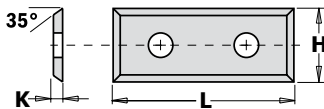
SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES



| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|--------|--------|--------|--------|
| 24,7 | 12 | 1,5 | 35° | 125122 | | | |
| 30 | 12 | 1,5 | 35° | 30122 | 330122 | 430122 | 230122 |
| 30 | 12 | 1,5 | 45° | | 630122 | | |
| 40 | 12 | 1,5 | 35° | 40122 | 340122 | 440122 | 240122 |
| 50 | 12 | 1,5 | 35° | 50122 | 350122 | 450122 | 250122 |
| 60 | 12 | 1,5 | 35° | 60122 | 360122 | 460122 | |

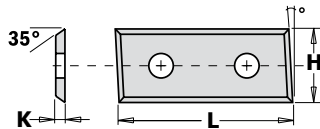
CHUCKS
& ACCESSORIES



| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|-------|--------|--------|--------|
| 29,5 | 9 | 1,5 | 35° | 3094 | 33094 | | |
| 29,5 | 12 | 1,5 | 35° | 30124 | 330124 | | |
| 39,5 | 9 | 1,5 | 35° | 4094 | | | |
| 49,5 | 9 | 1,5 | 35° | 5094 | 35094 | | |
| 49,5 | 12 | 1,5 | 35° | 50124 | 350124 | 450124 | 250124 |

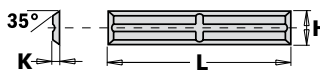
TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES



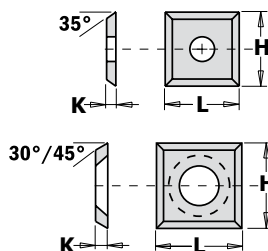
| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|--------|------|-------|-------|
| 28,3 | 12 | 1,5 | 35° | 283127 | | | |
| 48,3 | 12 | 1,5 | 35° | 483127 | | | |

DRILL BITS



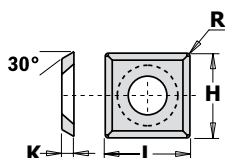
| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|--------|--------|-------|-------|
| 20 | 4,1 | 1,1 | 35° | 220414 | 520414 | | |
| 30 | 5,5 | 1,1 | 35° | 230554 | 530554 | | |
| 50 | 5,5 | 1,1 | 35° | 250554 | 550554 | | |

STRAIGHT
& SYSTEM KNIVES



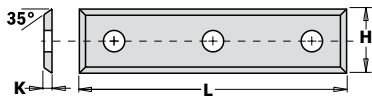
| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|--------|--------|--------|-------|
| 12 | 12 | 1,5 | 35° | 12124 | 312124 | 412124 | |
| 13,6 | 13,6 | 2 | 30° | 136204 | | | |
| 14 | 14 | 1,2 | 30° | 14124 | | | |
| 14 | 14 | 2 | 30° | 814204 | | 414204 | |
| 14 | 14 | 2 | 45° | | 614204 | | |

STARTER KIT

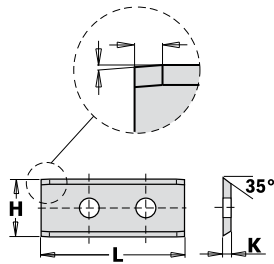


| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|-------|------|-------|-------|
| 14 | 14 | 2 | R/30° | 14244 | | | |

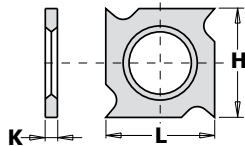
Reversible HM Knives



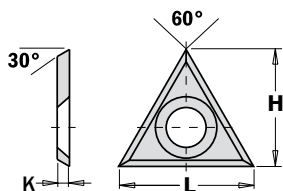
| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|-------|--------|--------|-------|
| 50 | 9 | 1,5 | 35° | 5093 | | | |
| 50 | 12 | 1,7 | 35° | 50123 | 150123 | 450123 | |



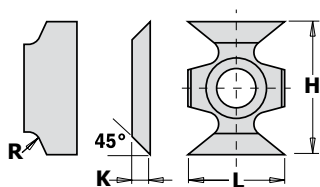
| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|-------|------|-------|-------|
| 20 | 12 | 1,5 | 35° | 20129 | | | |
| 30 | 12 | 1,5 | 35° | 30129 | | | |
| 50 | 12 | 1,5 | 35° | 50129 | | | |



| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|--------|------|-------|-------|
| 18 | 18 | 1,95 | | 181954 | | | |
| 18 | 18 | 2,45 | | 182454 | | | |



| L mm | H mm | K mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|----------|------|--------|-------|-------|
| 22 | 19 | 2 | 30° | | 220201 | | |



| L mm | H mm | K mm | R mm | α | HC05 | MG06 | SMG02 | UMG04 |
|---------|---------|---------|---------|----------|--------|------|-------|-------|
| 16 | 22 | 5 | 1,5 | | 162215 | | | |
| 16 | 22 | 5 | 2 | | 162220 | | | |
| 16 | 22 | 5 | 3 | | 162230 | | | |
| 16 | 22 | 5 | | 45° | 162245 | | | |

PCD & HM TOOLS

SOLID CARBIDE
ROUTER BITS

PCD & VHM TOOLS FOR
COMPOSITES

CHUCKS
& ACCESSORIES

TOOLS FOR EDGEBANDING
MACHINES

CIRCULAR SAW BLADES

DRILL BITS

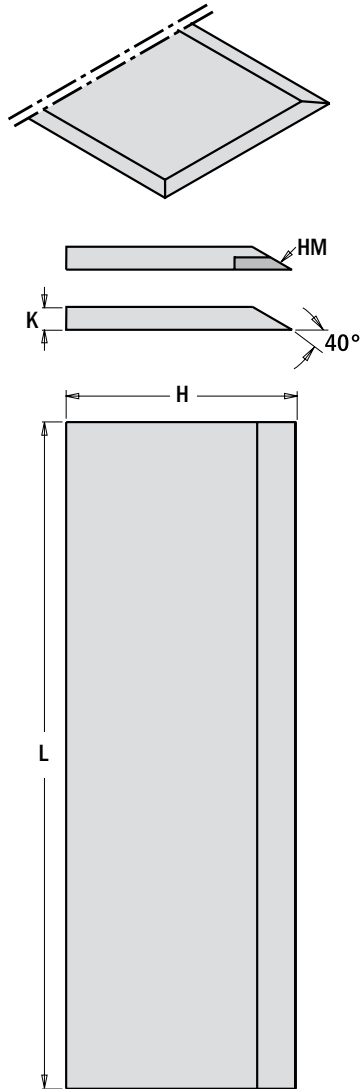
STRAIGHT
& SYSTEM KNIVES

STARTER KIT

HSS-HM

HSS

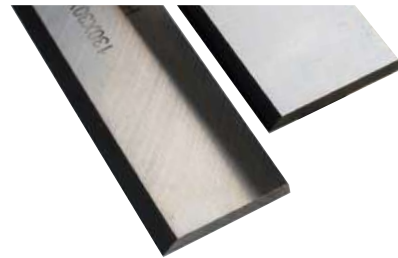
HM



| L mm | H mm | K mm | ARTICLE HSS | ARTICLE HM |
|---------|---------|---------|----------------|---------------|
| 80 | 30 | 3 | HS1.080.303 | HM1.080.303 |
| 100 | 30 | 3 | HS1.100.303 | HM1.100.303 |
| 120 | 30 | 3 | HS1.120.303 | HM1.120.303 |
| 130 | 30 | 3 | HS1.130.303 | HM1.130.303 |
| 140 | 30 | 3 | HS1.140.303 | HM1.140.303 |
| 150 | 30 | 3 | HS1.150.303 | HM1.150.303 |
| 160 | 30 | 3 | HS1.160.303 | HM1.160.303 |
| 180 | 30 | 3 | HS1.180.303 | HM1.180.303 |
| 190 | 30 | 3 | HS1.190.303 | HM1.190.303 |
| 200 | 30 | 3 | HS1.200.303 | HM1.200.303 |
| 210 | 30 | 3 | HS1.210.303 | HM1.210.303 |
| 230 | 30 | 3 | HS1.230.303 | HM1.230.303 |
| 240 | 30 | 3 | HS1.240.303 | HM1.240.303 |
| 250 | 30 | 3 | HS1.250.303 | HM1.250.303 |
| 260 | 30 | 3 | HS1.260.303 | HM1.260.303 |
| 300 | 30 | 3 | HS1.300.303 | HM1.300.303 |
| 310 | 30 | 3 | HS1.310.303 | HM1.310.303 |
| 350 | 30 | 3 | HS1.350.303 | HM1.350.303 |
| 400 | 30 | 3 | HS1.400.303 | HM1.400.303 |
| 410 | 30 | 3 | HS1.410.303 | HM1.410.303 |
| 430 | 30 | 3 | HS1.430.303 | HM1.430.303 |
| 450 | 30 | 3 | HS1.450.303 | HM1.450.303 |
| 500 | 30 | 3 | HS1.500.303 | HM1.500.303 |
| 510 | 30 | 3 | HS1.510.303 | HM1.510.303 |
| 520 | 30 | 3 | HS1.520.303 | HM1.520.303 |
| 530 | 30 | 3 | HS1.530.303 | HM1.530.303 |
| 600 | 30 | 3 | HS1.600.303 | HM1.600.303 |
| 610 | 30 | 3 | HS1.610.303 | HM1.610.303 |
| 630 | 30 | 3 | HS1.630.303 | HM1.630.303 |
| 640 | 30 | 3 | HS1.640.303 | HM1.640.303 |
| 710 | 30 | 3 | HS1.710.303 | HM1.710.303 |
| 810 | 30 | 3 | HS1.810.303 | HM1.810.303 |
| 1050 | 30 | 3 | HS1.1050.303 | HM1.1050.303 |

| Material | HSS | HM |
|----------------|-----|----|
| Soft wood, dry | ★ | |
| Soft wood, wet | ☆ | |
| Hard wood, dry | ★ | ★ |
| Hard wood, wet | ★ | ☆ |
| Chipboard | | ☆ |
| MDF | | ☆ |
| Plywood | ☆ | ★ |

★ Excellent ☆ Good

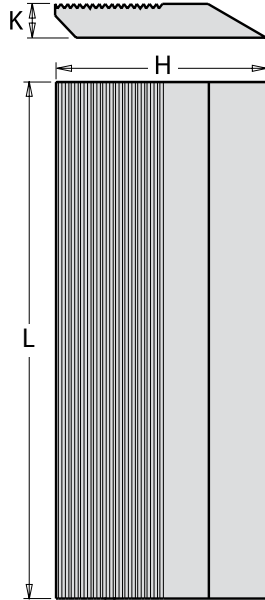


Note:

Other dimensions are available on request. The mirror finish of the cutting edges allows for excellent cut and longer life.

HR1

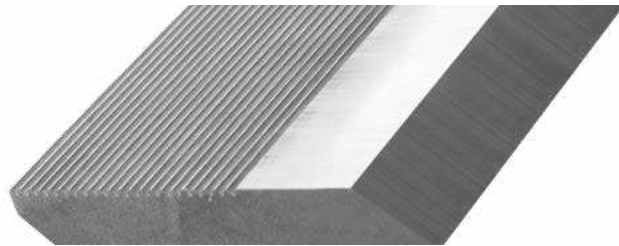
HSS



Application:

Grooves on the knife enable its precise placement on the tool.

| L mm | H mm | K mm | ARTICLE HSS |
|---------|---------|---------|----------------|
| 40 | 50 | 8 | HR1.040.508 |
| 40 | 60 | 8 | HR1.040.608 |
| 40 | 70 | 8 | HR1.040.708 |
| 60 | 50 | 8 | HR1.060.508 |
| 60 | 60 | 8 | HR1.060.608 |
| 60 | 70 | 8 | HR1.060.708 |
| 80 | 50 | 8 | HR1.080.508 |
| 80 | 60 | 8 | HR1.080.608 |
| 80 | 70 | 8 | HR1.080.708 |
| 100 | 50 | 8 | HR1.100.508 |
| 100 | 60 | 8 | HR1.100.608 |
| 100 | 70 | 8 | HR1.100.708 |
| 120 | 50 | 8 | HR1.120.508 |
| 120 | 60 | 8 | HR1.120.608 |
| 120 | 70 | 8 | HR1.120.708 |
| 130 | 60 | 8 | HR1.130.608 |
| 130 | 70 | 8 | HR1.130.708 |
| 650 | 40 | 8 | HR1.650.408 |
| 650 | 50 | 8 | HR1.650.508 |
| 650 | 60 | 8 | HR1.650.608 |
| 650 | 70 | 8 | HR1.650.708 |



Note:

Other dimensions are available on request.

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CIRCULAR SAW BLADES

DRILL BITS

STRAIGHT
& SYSTEM KNIVES

STARTER KIT

KS1-KS2-KS3

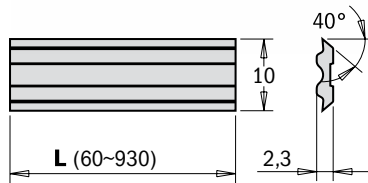
HSS

HM

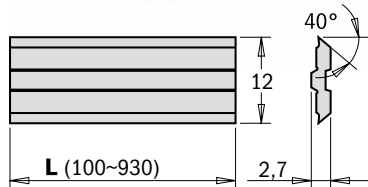
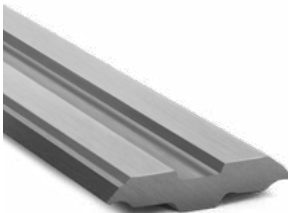
Note:

Other dimensions on request.

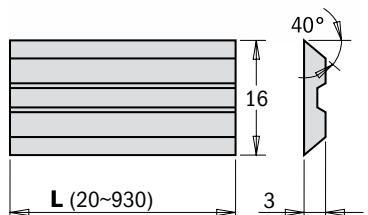
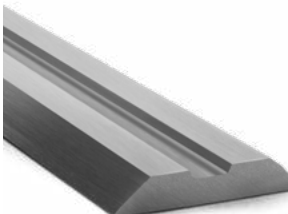
TERSA



CENTROSTAR CENTROFIX QUICKFIX



CENTROLOCK



TERSA

| L mm | H mm | K mm | ARTICLE |
|---------|---------|---------|------------|
| 60 | 10 | 2,3 | KS1.060.01 |
| 80 | 10 | 2,3 | KS1.080.01 |
| 100 | 10 | 2,3 | KS1.100.01 |
| 110 | 10 | 2,3 | KS1.110.01 |
| 120 | 10 | 2,3 | KS1.120.01 |
| 130 | 10 | 2,3 | KS1.130.01 |
| 140 | 10 | 2,3 | KS1.140.01 |
| 150 | 10 | 2,3 | KS1.150.01 |
| 160 | 10 | 2,3 | KS1.160.01 |
| 170 | 10 | 2,3 | KS1.170.01 |
| 180 | 10 | 2,3 | KS1.180.01 |
| 190 | 10 | 2,3 | KS1.190.01 |
| 200 | 10 | 2,3 | KS1.200.01 |
| 210 | 10 | 2,3 | KS1.210.01 |
| 220 | 10 | 2,3 | KS1.220.01 |
| 230 | 10 | 2,3 | KS1.230.01 |
| 235 | 10 | 2,3 | KS1.235.01 |
| 240 | 10 | 2,3 | KS1.240.01 |
| 250 | 10 | 2,3 | KS1.250.01 |
| 260 | 10 | 2,3 | KS1.260.01 |
| 270 | 10 | 2,3 | KS1.270.01 |
| 280 | 10 | 2,3 | KS1.280.01 |
| 300 | 10 | 2,3 | KS1.300.01 |
| 310 | 10 | 2,3 | KS1.310.01 |
| 330 | 10 | 2,3 | KS1.330.01 |
| 350 | 10 | 2,3 | KS1.350.01 |
| 360 | 10 | 2,3 | KS1.360.01 |
| 400 | 10 | 2,3 | KS1.400.01 |
| 410 | 10 | 2,3 | KS1.410.01 |
| 420 | 10 | 2,3 | KS1.420.01 |
| 430 | 10 | 2,3 | KS1.430.01 |
| 450 | 10 | 2,3 | KS1.450.01 |
| 460 | 10 | 2,3 | KS1.460.01 |
| 480 | 10 | 2,3 | KS1.480.01 |
| 500 | 10 | 2,3 | KS1.500.01 |
| 510 | 10 | 2,3 | KS1.510.01 |
| 520 | 10 | 2,3 | KS1.520.01 |
| 530 | 10 | 2,3 | KS1.530.01 |
| 540 | 10 | 2,3 | KS1.540.01 |
| 610 | 10 | 2,3 | KS1.610.01 |
| 620 | 10 | 2,3 | KS1.620.01 |
| 630 | 10 | 2,3 | KS1.630.01 |
| 635 | 10 | 2,3 | KS1.635.01 |
| 640 | 10 | 2,3 | KS1.640.01 |
| 650 | 10 | 2,3 | KS1.650.01 |
| 710 | 10 | 2,3 | KS1.710.01 |
| 810 | 10 | 2,3 | KS1.810.01 |
| 860 | 10 | 2,3 | KS1.860.01 |
| 910 | 10 | 2,3 | KS1.910.01 |
| 930 | 10 | 2,3 | KS1.930.01 |

CENTROSTAR, CENTROFIX, QUICKFIX

| L mm | H mm | K mm | ARTICLE |
|---------|---------|---------|------------|
| 60 | 12 | 2,7 | KS2.060.01 |
| 80 | 12 | 2,7 | KS2.080.01 |
| 100 | 12 | 2,7 | KS2.100.01 |
| 110 | 12 | 2,7 | KS2.110.01 |
| 120 | 12 | 2,7 | KS2.120.01 |
| 130 | 12 | 2,7 | KS2.130.01 |
| 140 | 12 | 2,7 | KS2.140.01 |
| 150 | 12 | 2,7 | KS2.150.01 |
| 160 | 12 | 2,7 | KS2.160.01 |
| 170 | 12 | 2,7 | KS2.170.01 |
| 180 | 12 | 2,7 | KS2.180.01 |
| 190 | 12 | 2,7 | KS2.190.01 |
| 200 | 12 | 2,7 | KS2.200.01 |
| 210 | 12 | 2,7 | KS2.210.01 |
| 220 | 12 | 2,7 | KS2.220.01 |
| 230 | 12 | 2,7 | KS2.230.01 |
| 240 | 12 | 2,7 | KS2.240.01 |
| 250 | 12 | 2,7 | KS2.250.01 |
| 260 | 12 | 2,7 | KS2.260.01 |
| 270 | 12 | 2,7 | KS2.270.01 |
| 280 | 12 | 2,7 | KS2.280.01 |
| 300 | 12 | 2,7 | KS2.300.01 |
| 310 | 12 | 2,7 | KS2.310.01 |
| 350 | 12 | 2,7 | KS2.350.01 |
| 360 | 12 | 2,7 | KS2.360.01 |
| 400 | 12 | 2,7 | KS2.400.01 |
| 410 | 12 | 2,7 | KS2.410.01 |
| 420 | 12 | 2,7 | KS2.420.01 |
| 430 | 12 | 2,7 | KS2.430.01 |
| 450 | 12 | 2,7 | KS2.450.01 |
| 480 | 12 | 2,7 | KS2.480.01 |
| 510 | 12 | 2,7 | KS2.510.01 |
| 520 | 12 | 2,7 | KS2.520.01 |
| 530 | 12 | 2,7 | KS2.530.01 |
| 610 | 12 | 2,7 | KS2.610.01 |
| 620 | 12 | 2,7 | KS2.620.01 |
| 630 | 12 | 2,7 | KS2.630.01 |
| 640 | 12 | 2,7 | KS2.640.01 |
| 650 | 12 | 2,7 | KS2.650.01 |
| 710 | 12 | 2,7 | KS2.710.01 |
| 810 | 12 | 2,7 | KS2.810.01 |
| 930 | 12 | 2,7 | KS2.930.01 |

CENTROLOCK

| L mm | H mm | K mm | ARTICLE |
|---------|---------|---------|------------|
| 20 | 16 | 3 | KS3.020.01 |
| 60 | 16 | 3 | KS3.060.01 |
| 80 | 16 | 3 | KS3.080.01 |
| 100 | 16 | 3 | KS3.100.01 |
| 130 | 16 | 3 | KS3.130.01 |
| 150 | 16 | 3 | KS3.150.01 |
| 170 | 16 | 3 | KS3.170.01 |
| 180 | 16 | 3 | KS3.180.01 |
| 190 | 16 | 3 | KS3.190.01 |
| 210 | 16 | 3 | KS3.210.01 |
| 230 | 16 | 3 | KS3.230.01 |
| 235 | 16 | 3 | KS3.235.01 |
| 240 | 16 | 3 | KS3.240.01 |
| 260 | 16 | 3 | KS3.260.01 |
| 270 | 16 | 3 | KS3.270.01 |
| 310 | 16 | 3 | KS3.310.01 |
| 460 | 16 | 3 | KS3.460.01 |
| 650 | 16 | 3 | KS3.650.01 |
| 930 | 16 | 3 | KS3.930.01 |

STARTER KITS

The perfect starting point for users, with professional-level tools in handy toolbox.

KIT NO. 01 - NESTING
INDEX NO. SET.NESTING

Includes:

Set of nesting and planning cutters:

- Z3+3 PCD cutter for nesting in THERMO Chuck
- Z2+2 PCD cutter for nesting in ER40 Chuck
- Z3+3 VHM cutter for nesting in ER40 Chuck
- Z3 cutter with exchangeable knives for planning in ER40 Chuck



KIT NO. 02 - FURNITURE CONNECTIONS
INDEX NO. SET.CONNECTORS

Includes:

Set for furniture connection includes:

- Saw blade for furniture connections
- Saw blade adapter for CNC machine
- Cutter for furniture connections
- Drill bits for furniture connections
- EOC25 Chuck
- Set of Precision Collets



Starter Kits

KIT NO. 03 - ER40 INDEX NO. SET.ER40

Includes:

- Chuck HSK-63 ER40 for CNC machines
- Set of Precision Collets



KIT NO. 04 - ER32 INDEX NO. SET.ER32

Includes:

- Chuck HSK-63 ER32 for CNC machines
- Set of Precision Collets



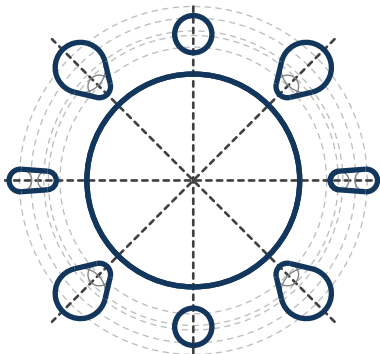
KIT NO. 05 - EOC25 INDEX NO. SET.EOC25

Includes:

- Chuck HSK-63 EOC25 for CNC machines
- Set of Precision Collets

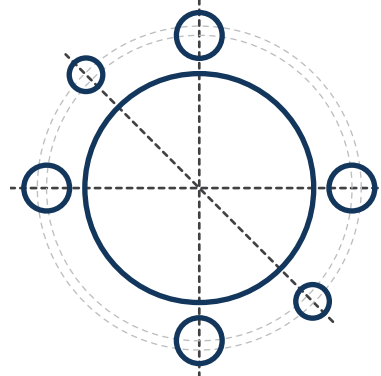


Additional holes



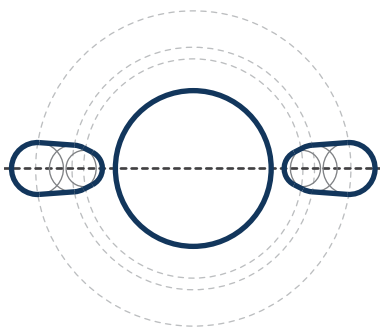
PH01 | ITA

2 / 14 / 110 mm
 4 / 19 / 120 mm
 4 / 8,5 / 100 mm
 4 / 7 / 110 mm
 4 / 8,5 / 130 mm



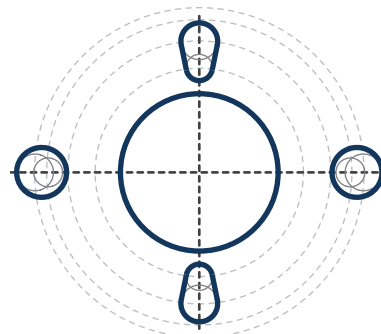
PH02 | ITA

4 / 15 / 105 mm
 2 / 11 / 100 mm



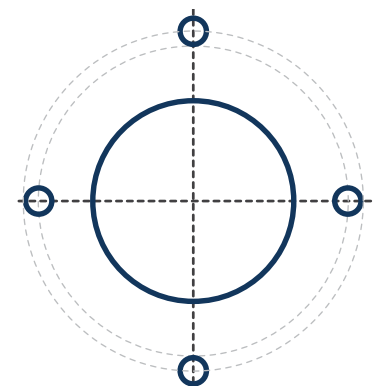
PH03 | ITA

2 / 7 / 42 mm
 2 / 9 / 46,4 mm
 2 / 10 / 60 mm



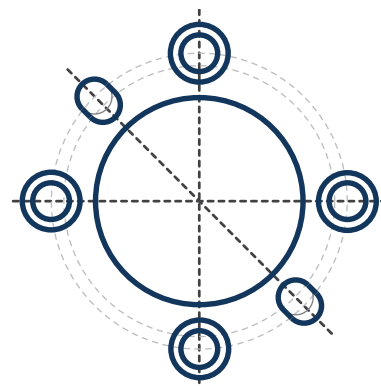
PH04 | ITA

2 / 10 / 80 mm
 2 / 14 / 100 mm
 2 / 14 / 125 mm
 2 / 11 / 115 mm
 2 / 19 / 120 mm



PH05 | ITA

2 / 9 / 110 mm
 2 / 9 / 100 mm



PH06 | ITA

2 / 5,9 / 50 mm
 2 / 5,9 / 46 mm
 4 / 5,5 / 50 mm
 4 / 9 / 50 mm

Milling

| MATERIALS | ACRYLIC | PE | PE-LD | PE-HD | ABS | PETF | PW | PVC | PA | POM | PMMA | HDPE | ALUCO-BOND® | ETAL-BOND® A2 |
|--------------------------|---------|---------------|----------------------------|-----------------------------|-----|------------|----------------|--------------------|-----------|-------------------|---------------------------|----------------------------|-------------|---------------|
| MODELS | | poly ethylene | low pressure poly ethylene | high pressure poly ethylene | | polyesters | poly-carbonate | polyvinyl chloride | polyamide | polyoxy-methylene | poly(methyl methacrylate) | high density poly ethylene | | |
| ST01R / ST28R / ST51R | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●○ | ●●● | ●●● | ●●○ | ○○○ |
| ST36R * | ●●●* | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●○ | ●●● | ●●● | ●●○ | ○○○ |
| SP01R | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●● | ○○○ |
| SP02R | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ○○○ |
| SP15R | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ○○○ |
| SQ01R | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ○○○ | ○○○ |
| SQ02R | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ○○○ |
| SQ31R | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ○○○ |
| SR01R | ●●○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ○○○ |
| SR33R | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●● | ○○○ | ●●● | ○○○ | ○○○ |
| CNR / CNV / CNS | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| CPS / CSS / CVS / CPU | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| SQ32R / SR02R / SR34R | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| FVHRa1 / FVHRa2 / FVHRa3 | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●● | ●○○ |
| SY26R | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ○○○ |
| SY26XR | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ○○○ |
| FVH 22,5°/30°/45° | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●○○ | ○○○ |
| DT2 | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| DTS | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| DT3 | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| DT5 | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| FFR | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| FDT.12.006.12.OSR | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●○ | ●●● |
| FDH.18.007.16.OSR | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●○ | ●●● |
| FDH.30.005.12.OSR | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●○ | ●●● |
| SW03R/SW03L | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |

LEGEND: ●●● - excellent quality ●●○ - good quality ●○○ - sufficient quality ○○○ - not to apply
* perfect finish of acrylic material

























Milling

| COR- IAN® | FOAM | GRA- PHITE | GFK | CFK | TEXTO- LITE | HPL | HONEY- COMB | SAND- WICH (without steel) | ALUMI- NUM | MDF | MODE- LING BOARD | FIBER CEMENT BOARD | STYRO- FOAM | PVC & ALU PROFILES | PVC PROFILES | ALU PROFILES |
|--------------|------|---------------|------------|-------------|----------------|------------------|----------------|-------------------------------------|---------------|-----|------------------------|--------------------------|----------------|--------------------------------|-----------------|-----------------|
| | | | fiberglass | carbonglass | | compact board | | | | | | | | ON GRAF SYNERGY MACHINES | | |
| ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ●○○ | ○○○ | ○○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●● | ○○○ |
| ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ●○○ | ○○○ | ○○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●● | ○○○ |
| ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ●○○ | ○○○ | ●●● | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●● | ●●● |
| ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●● | ●●● |
| ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●● | ●○○ |
| ●○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ○○○ | ○○○ | ○○○ | ●○○ | ●●○ |
| ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●○ | ●●○ |
| ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ●○○ | ○○○ | ●●○ | ●●○ | ●●○ | ○○○ | ○○○ | ○○○ | ●○○ | ○○○ |
| ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ○○○ | ●○○ | ●●○ | ●●○ | ●●○ | ○○○ | ○○○ | ○○○ | ●○○ | ●○○ |
| ●○○ | ○○○ | ●○○ | ○○○ | ○○○ | ●○○ | ●●○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ |
| ○○○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●○○ | ●●○ | ○○○ | ●○○ | ○○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| ●●○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ○○○ | ●○○ | ○○○ | ●○○ | ●●○ | ○○○ | ○○○ | ○○○ |
| ○○○ | ●○○ | ●○○ | ○○○ | ○○○ | ○○○ | ●○○ | ●○○ | ●○○ | ●●○ | ●●○ | ●●○ | ○○○ | ●●○ | ○○○ | ○○○ | ●○○ |
| ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| ●○○ | ●●○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ●○○ | ○○○ | ○○○ | ●●○ | ●○○ | ●○○ | ○○○ | ○○○ | ●○○ | ○○○ |
| ●●○ | ●●○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●○ | ●●○ | ●●○ | ○○○ | ●●○ | ●○○ | ●○○ | ○○○ | ○○○ | ●○○ | ○○○ |
| ●○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●○○ | ○○○ | ○○○ | ○○○ | ●●○ | ●○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| ●●○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●○○ | ●●○ | ○○○ | ●●○ | ●○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| ●○○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●○○ | ●●○ | ○○○ | ●●○ | ●○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| ●●○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●○○ | ●●○ | ○○○ | ●●○ | ●○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| ●○○ | ○○○ | ●●○ | ●●○ | ●●○ | ●●○ | ●●○ | ●○○ | ●●○ | ○○○ | ●●○ | ●○○ | ●○○ | ●●○ | ○○○ | ○○○ | ○○○ |
| ●●○ | ○○○ | ●○○ | ●○○ | ●○○ | ●○○ | ●○○ | ○○○ | ●○○ | ○○○ | ●●○ | ○○○ | ●○○ | ○○○ | ○○○ | ○○○ | ○○○ |
| ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ○○○ | ●●○ | ○○○ | ○○○ |

Abbreviated Designations

| | | | |
|-----------------------------|--|---------------------------|---|
| α | - Cutting angle | K min. | - Min. cutting width |
| β | - Upper rake | K max. | - Max. cutting width |
| δ | - Radial rake | KR | - External diameter of the received element |
| γ | - Axial-rake | L | - Length / width |
| λ | - Rake angle of blade | LA | - Distance between the extreme holes |
| ψ | - Deflection angle | LB | - Adjusting length |
| <> | - Special cut for easier fitting of saw blade | LH | - Left hand rotation |
| A | - Cutting angle | N | - Pitch |
| B | - Thickness of the tool body at the bore hole | N / mm² | - Breaking force |
| C | - Tenon height | P | - Thickness of tool |
| CH50 | - Turnkey milling 50mm | PH | - Additional pins (types and track) |
| Densimet[®] | - Ultra durable metal with a high tungsten content | PTFE | - Non-stick industrial coating |
| D | - Cutting circle diameter | R | - Radius |
| D max. | - Max. cutting circle diameter | RH | - Right hand rotation |
| D min. | - Min. cutting circle diameter | RPM | - Permissible RPM (rotation per minute) |
| DKN | - Additional pins at the fixing hole 4x8mm | S | - Type of clamping |
| F | - Bore diameter | S (mm) | - Diameter of shank |
| G | - Recommended depth of drilling | ShA | - Shore hardness on the Shore scale |
| H (PCD) | - High of (PCD plates) | ST | - Leap clamp |
| H | - Cutting depth | T | - Max. profile depth / cutting depth |
| HV10 | - Shore hardness on the Vickers scale | TK | - Pinhole demotions |
| I | - Cutting length | V | - Number of spurs |
| I max. | - Max. height of cutting material | Z | - Number of teeth |
| ISO | - Quality of carbide | ZM | - Clamping range |
| K | - Cutting width | W | - Width |

List of Symbols

| | | | |
|---|---|---|--|
|  | Cross cut |  | Right-hand rotation |
|  | Longitudinal cut |  | Right-hand & Left-hand rotation |
|  | Cross and longitudinal cut |  | Sharpening by laser ablation method |
|  | Saws for longitudinal cut on Multi rip machines |  | Cross cut of ALU profiles |
|  | Saw blades for grooving |  | Polycrystalline diamond |
|  | Number of tooth |  | Tools with changeable knives |
|  | Aluminium body |  | Monolit carbide tools |
|  | Tungsten carbide tipped |  | Alloyed tools steel |
|  | High speed steel |  | Mechanical feed |
|  | Symmetrical rotation |  | Accessories |
|  | Manual feed |  | Left-hand rotation |
|  | Noise-reduction |  | Chrome saw blades |

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