



Tools for production of **Gardening Programme**  
**2017**

**Globus®**  
...ostre narzędzia



## GARDENING PROGRAMME

A beautifully groomed and well-arranged garden is an ideal place for relax after a tough day at work and for meetings with family and friends. A garden is not only a green area and if it should create favourable conditions for relaxing and meeting our needs, it should also be equipped with garden furniture and constructions as well as accessories of small garden architecture.

Wood is a very good material usually used while garden arranging. There is no other material that can equal classic and warm wood form and its natural colour goes well with green. It is used to design components and accessories of hard landscaping and, in particular: gazebos, pergolas, roll boarders, treillages, bridges, fences, grates, gates, arches, toe walls, cascades, fixed barbecues, benches, sculptures, fountains or lamps. The term hard landscaping is sometimes used also for hard pavements, decorative ponds and streams. Some of these architecture objects serve only as decorations, whereas others make the garden more functional.

Gardening tools programme includes the highest quality tools, which will satisfy the highest demands of the manufacturers of garden accessories such as perforated and solid fences, seesaws, accessories for children playgrounds, pots, roll boarders, palisades, garden houses, bridges, picket fences, garden trellises, terraces, garden furnitures and many other hard garden installations and decorations.

Band saws for band frame sawing machines, MULTIX circular saw blades, saw blades for multi-spindle machines, saw blades for cutting of strips, saw blades for cross cutting of wood (single and packet cutting), saw blades for defects removing and knives for planers.



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## WHICH TOOLS PRODUCTION PROCESSES WE USE?

### CUTTING PROCESS



Delivered metal sheets are inserted to a special cutter and undergo laser cutting processes, where laser acts as a "knife".

### HARDENING AND TEMPERING



Heat treatment of tool steel consists of three stages:  
Stage 1 - steel heating;  
Stage 2 - quick cooling of material;  
Stage 3 - tempering.

### DISCS GRINDING



Grinding of planes aims to obtain required thickness with maintaining minimum scattering and flatness of the disc. This part of process is implemented on automated grinding machine, which provides precise grinding with accuracy up to 0.0005 mm.

### TENSIONING AND BALANCING OF DISCS



Due to the character of manufactured disc tools, they have to maintain the specified rigidity and stability during working. Therefore saw blades discs undergo tensioning and dynamic balancing.

### SOLDERING OF SINTERED CARBIDES



Soldering of sintered carbides is executed on fully automated soldering units. Carbides are segregated in vibrating drums and set into a soldering position.

### SHARPENING OF SINTERED CARBIDES



Sharpening of sintered carbides is made in a modern, fully automated line of highly - efficient production grinders with numerically-controlled axes serviced by an arm of robot.

### DISCS MARKING



Laser marking is one of the most advanced marking methods. This method is very quick and aesthetic.

### QUALITY CONTROL - PACKAGING



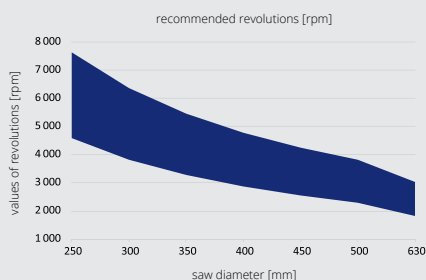
Marked tools go to the control department where they undergo final acceptance by experienced experts from the quality department.





## CUTTING IN THE PRODUCTION OF GARDENING PROGRAMMES

|           |                                                                                                  |    |
|-----------|--------------------------------------------------------------------------------------------------|----|
| PS112-123 | HM saw blades MULTIX PRO Plus / MULTIX PRO Standard<br>for ripping of raw wood on multi-rip saws | 6  |
| PA310-510 | Band saws<br>for cutting of raw wood on band frame sawing machines                               | 7  |
| PR110     | Gang saws<br>for cutting of raw wood                                                             | 8  |
| PS320     | LL CUT 3GS series HM saws<br>for defects removing from wood on an optimizing crosscut saw        | 9  |
| PS210     | HM saw blade<br>for cross cutting of wood on crosscut mitre saws                                 | 10 |
| PS322     | HM saw blades LL CUT VH 3GS-5<br>for cutting of strips and frames                                | 11 |
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**EXPERT'S ADVICE:**

- ▶ While sharpening the inset difference between tooth and wiper from the disc should be maintained at 0.2-0.3 mm - reducing this difference leads to overheating of saw blade disk.
- ▶ Please remember that the adequate chip removal system is one of the conditions for correct operation of saw blades from MULTIX line.
- ▶ MULTIX includes saw blades working in a set, ripping greenwood, softwood and hardwood along its rings on multi-rip saws with one or two shafts.
- ▶ Appropriately located wipers allow quick chip removal from cutting area.



## HM saw blades MULTIX PRO Plus / Standard

for ripping of raw wood on multi-rip saws

- ▶ equipped with a disc ensuring high rigidity in difficult operation conditions, specific for highly-efficient multi-rip saws
- ▶ PLUS tooth geometry with its special design allows to operate at high cutting parameters-tooth recommended for ripping of softwood and greenwood
- ▶ the use of a new type of sintered carbide in MULTIX PRO line improves the lifetime of a saw blade and its new geometry allows decreasing milling resistance and obtaining surface of a better quality
- ▶ for production of structural components of wood (beams, joists, laths, rafters, square-sawn timbers, boards etc.) and other components of wooden hard landscaping before the milling process

| Index           |  |  |  |  |  | Geo-<br>metry |  | Type/line    | PRICELIST     |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|--------------|---------------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                       |               | il(axh)                                                                               |              | eur/pc.       |
| PS113-0250-0001 | 250                                                                                 | 70                                                                                  | 3,2                                                                                 | 2,0                                                                                 | 12+2                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>47,00</b>  |
| PS112-0250-0001 | 250                                                                                 | 80                                                                                  | 3,2                                                                                 | 2,0                                                                                 | 18+2                                                                                  | GM20          | 4(20x6)                                                                               | PRO Standard | <b>49,50</b>  |
| PS123-0300-0001 | 300                                                                                 | 70                                                                                  | 3,6                                                                                 | 2,2                                                                                 | 18+4                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>53,50</b>  |
| PS122-0300-0004 | 300                                                                                 | 80                                                                                  | 3,2                                                                                 | 2,2                                                                                 | 24+4                                                                                  | 2GS20         | 4(20x6)                                                                               | PRO Standard | <b>57,00</b>  |
| PS123-0350-0004 | 350                                                                                 | 80                                                                                  | 3,8                                                                                 | 2,5                                                                                 | 18+4                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>61,45</b>  |
| PS122-0350-0004 | 350                                                                                 | 70                                                                                  | 3,6                                                                                 | 2,5                                                                                 | 24+4                                                                                  | 2GS20         | 4(20x6)                                                                               | PRO Standard | <b>62,55</b>  |
| PS123-0400-0004 | 400                                                                                 | 70                                                                                  | 4,4                                                                                 | 3,0                                                                                 | 18+4                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>76,15</b>  |
| PS123-0450-0002 | 450                                                                                 | 70                                                                                  | 4,6                                                                                 | 3,2                                                                                 | 14+4                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>80,80</b>  |
| PS123-0450-0004 | 450                                                                                 | 70                                                                                  | 4,6                                                                                 | 3,2                                                                                 | 18+4                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>85,70</b>  |
| PS123-0500-0001 | 500                                                                                 | 70                                                                                  | 5,0                                                                                 | 3,4                                                                                 | 14+4                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>86,40</b>  |
| PS133-0500-0002 | 500                                                                                 | 70                                                                                  | 5,0                                                                                 | 3,4                                                                                 | 18+6                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>94,00</b>  |
| PS133-0630-0001 | 630                                                                                 | 70                                                                                  | 6,0                                                                                 | 3,8                                                                                 | 18+6                                                                                  | GM20          | 4(20x6)                                                                               | PRO Plus     | <b>159,90</b> |

a - driving keyway width  
h - driving keyway height

\* see the website for more products



Tools in ACTION!

**EXPERT'S ADVICE:**

- Using special borazon grinding wheels is recommended. It ensures repeatability of the shape of sharpened teeth and their pitch.
- In sawing machines operating on band saw blades, lots of factors, which affects the durability and cutting quality of the blade, are crucial.
- Please remember to check the condition of the sawing machine, select geometry and setting of the blade and set the correct band feed speed before working.
- Please remember about proper service of band saw blades during their operation - correct geometry of blades, quality of cutting and correct setting of teeth.

## Band saws

for cutting of raw wood on band frame sawing machines

- BARAKUDA Q and PIRANIA Q with ground teeth and back as well as calibrated and set blades are a warranty of quiet and stable operation of saw blades
- special heat treatment of the band saw BARAKUDA Q improves flexibility and strength of a band
- BARAKUDA PREMIUM line designed for cutting of frozen wood, a feature of PIRANIA line is high-quality chromium-nickel tool steel with addition of molybdenum and vanadium of hardness in range of 44-46 HRC
- in companies manufacturing hard landscaping materials made of wood on one of the first stages of structural wood processing. It includes, among others, such materials as: beams and barks, boards etc.



| Index           |  |  |  | Type | Series           | IU   | PRICELIST    |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|------------------|------|--------------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |      |                  |      | eur/pc.      |
| PA510-4005-0013 | 4005                                                                                | 35                                                                                  | 1,1                                                                                 | HORS | BARAKUDA Q       | pcs. | <b>18,25</b> |
| PA510-4005-0015 | 4005                                                                                | 40                                                                                  | 1,1                                                                                 | HORS | BARAKUDA Q       | pcs. | <b>21,40</b> |
| PA510-4005-0003 | 4005                                                                                | 35                                                                                  | 1,1                                                                                 | HOR  | BARAKUDA PREMIUM | pcs. | <b>17,40</b> |
| PA510-4005-0005 | 4005                                                                                | 40                                                                                  | 1,1                                                                                 | HOR  | BARAKUDA PREMIUM | pcs. | <b>19,90</b> |
| PA410-4005-0013 | 4005                                                                                | 35                                                                                  | 1,1                                                                                 | HORS | PIRANIA Q        | pcs. | <b>17,75</b> |
| PA410-4005-0015 | 4005                                                                                | 40                                                                                  | 1,1                                                                                 | HORS | PIRANIA Q        | pcs. | <b>20,50</b> |
| PA410-4005-0002 | 4005                                                                                | 35                                                                                  | 1,0                                                                                 | HOR  | PIRANIA PLUS     | pcs. | <b>16,90</b> |
| PA410-4005-0003 | 4005                                                                                | 35                                                                                  | 1,1                                                                                 | HOR  | PIRANIA PLUS     | pcs. | <b>16,90</b> |
| PA310-4005-0002 | 4005                                                                                | 35                                                                                  | 1,1                                                                                 | HOR  | ORKA PLUS        | pcs. | <b>13,40</b> |

\* see the website for more products





EXPERT’S ADVICE:

- ▶ Saw blade thickness should conform the requirements contained in the operation and maintenance manual for the given machinery. It should be taken into account that the thicker the saw blade the more exposed it is to fatigue cracking.
- ▶ Selection of tooth pitch depends on dimensions of sawn wood and its hardness and density.
- ▶ Saw blade vibrations occur in the case of a too high approach angle with respect to the feed used and then the post-processing surface is rough.
- ▶ A too low approach angle causes “taking in” the band into wood - the lower the approach angle the lower cutting efficiency is.

Gang saws  
for ripping of raw wood

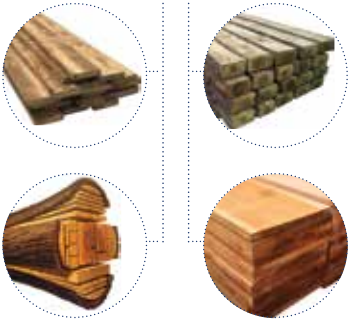


- ▶ saw blades are manufactured of high-grade tool steel proven in saw-mill cutting of softwood and hardwood
- ▶ the blade is cut by the use of laser, which ensures very high precision of intertooth pitch and considerably facilitates their sharpening
- ▶ the body undergoes the tensioning process, which ensures adequate rigidity of saw blades during work
- ▶ they are intended for cutting of all types of raw wood and they are most often used in the first stages of processing of this material, including such components as beams, balks, boards etc.

| Index             |  |  |  |  | Toothing type | IU   | PRICELIST |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|------|-----------|
|                   | mm                                                                                  | mm                                                                                  | mm                                                                                    |                                                                                       |               |      | eur/pc.   |
| ◦ PR110-1250-0002 | 1250                                                                                | 160                                                                                 | 2,2                                                                                   | 25                                                                                    | W             | pcs. | 30,50     |
| ◦ PR110-1250-0009 | 1250                                                                                | 140                                                                                 | 2,2                                                                                   | 25                                                                                    | W             | pcs. | 27,85     |
| ◦ PR110-1340-0003 | 1340                                                                                | 160                                                                                 | 2,2                                                                                   | 25                                                                                    | W             | pcs. | 31,80     |
| ◦ PR110-1340-0008 | 1340                                                                                | 140                                                                                 | 2,2                                                                                   | 25                                                                                    | W             | pcs. | 29,70     |

o- on request

\* see the website for more products

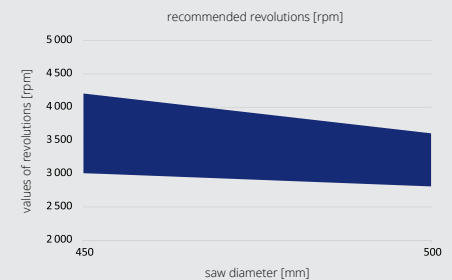




Tools in ACTION

**EXPERT'S ADVICE:**

- ▶ Saw blades for defects removing adapted for working in special machinery where cutting lasts just several milliseconds!!!
- ▶ Specially profiled shape of the HM 3GS tip blade (sharp, alternate top bevel) allows maintaining a very good quality of surfaces of processed materials.
- ▶ The use of SUPER hard sintered carbide (HM) requires sharpening of saw blades in special points dealing with tools sharpenings on machinery which are equipped with continuous cooling systems - wet sharpening.



## LL CUT 3GS series HM saws

for defects removing from wood on an optimizing crosscut saw

- ▶ SUPER hard sintered carbide (ULTRAFINE) ensures an even longer lifetime and allows multiple sharpening
- ▶ a laser-cut disc, with dynamic balancing, made of high-quality steel after heat treatment ensures high rigidity and stability of the tool during the cutting process
- ▶ for cross-cutting of wood during material defects removal using the impact method on an optimizing cross cut saw with large feed
- ▶ in gardening used for production of glued and structural components e.g. for structures of beams, joists etc.

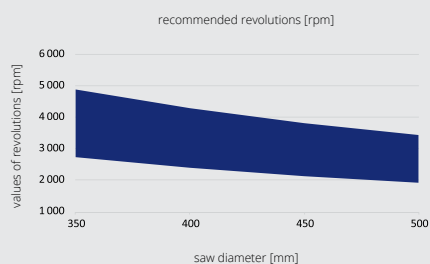


| Index             |  |  |  |  |  | Geometry |  | PRICELIST     |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|---------------|
|                   | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     |          | ilxd/d <sub>p</sub>                                                                 | eur/pc.       |
| o PS320-0450-0007 | 450                                                                                 | 30                                                                                  | 4,8                                                                                 | 3,5                                                                                 | 136                                                                                 | 3GS10°   | 2x15/63                                                                             | <b>132,30</b> |
| o PS320-0500-0008 | 500                                                                                 | 30                                                                                  | 4,8                                                                                 | 3,5                                                                                 | 144                                                                                 | 3GS5°    | 2x14,5/63                                                                           | <b>153,90</b> |
| o PS390-0450-0008 | 450                                                                                 | 30                                                                                  | 4,8                                                                                 | 3,5                                                                                 | 136                                                                                 | 3GE10°   | 2x15/63                                                                             | <b>132,30</b> |
| o PS390-0500-0003 | 500                                                                                 | 30                                                                                  | 4,8                                                                                 | 3,5                                                                                 | 144                                                                                 | 3GE5°    | 2x14,5/63                                                                           | <b>153,90</b> |

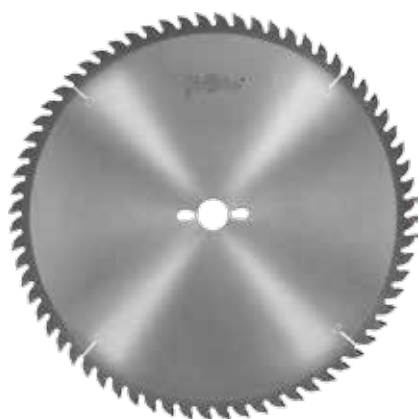
d<sub>p</sub> - driving holes diameter  
d<sub>p</sub> - pitch diameter of holes  
o - saws on request

\* see the website for more products



**EXPERT'S ADVICE:**

- ▶ In the case of a decreased teeth number, the saw blades from this line may be also used to cut wood along its rings.
- ▶ A hole in the saw blade should be adapted to the spindle of the machine tool - too loose a hole results in an increase of radial run-out and non-balancing, too tight an opening has an adverse influence on disc tension fluctuation.
- ▶ Sharpening of HM teeth should be executed already for blunting 0.10 - 0.20 mm, measured on the surface of teeth application.
- ▶ It is forbidden to change approach and application angles as a result of sharpening - it may result in the incorrect operation of the tool.

**HM saw blade**

for cross cutting of wood on table cut-off machines

- ▶ appropriately selected shape, geometry and rake of the teeth, GS 10° (alternate top bevel), enables obtaining the optimal quality of cross cutting
- ▶ additionally saw blades have grooves compensating temperature impact on disc tension fluctuation
- ▶ an increased teeth number in a given tool diameter has impact on obtaining smooth surfaces of the cut material particularly in the case of dry wood
- ▶ for straight, angle or bevel cutting to specified length of components of wooden hard landscaping, with option to cut material with wide range of its thickness (dimension)

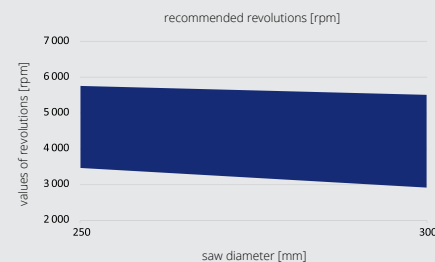
| Index           |     |    |     |     |    |                         | PRICELIST     |
|-----------------|-----|----|-----|-----|----|-------------------------|---------------|
|                 | mm  | mm | mm  | mm  |    | ilxd/d <sub>p</sub>     | eur/pc.       |
| PS210-0350-0001 | 350 | 30 | 3,6 | 2,5 | 32 | 2x7/42+2x8,5/46+2x10/60 | <b>46,55</b>  |
| PS210-0350-0002 | 350 | 30 | 3,6 | 2,5 | 42 | 2x7/42+2x8,5/46+2x10/60 | <b>49,95</b>  |
| PS210-0350-0003 | 350 | 30 | 3,6 | 2,5 | 60 | 2x7/42+2x8,5/46+2x10/60 | <b>64,15</b>  |
| PS210-0350-0005 | 350 | 30 | 3,6 | 2,5 | 78 | 2x7/42+2x8,5/46+2x10/60 | <b>74,15</b>  |
| PS210-0400-0001 | 400 | 30 | 4,0 | 2,8 | 36 | 2x7/42+2x8,5/46+2x10/60 | <b>57,00</b>  |
| PS210-0400-0002 | 400 | 30 | 4,0 | 2,8 | 48 | 2x7/42+2x8,5/46+2x10/60 | <b>64,15</b>  |
| PS210-0400-0003 | 400 | 30 | 4,0 | 2,8 | 68 | 2x7/42+2x8,5/46+2x10/60 | <b>72,75</b>  |
| PS210-0400-0004 | 400 | 30 | 4,0 | 2,8 | 88 | 2x7/42+2x8,5/46+2x10/60 | <b>92,50</b>  |
| PS210-0450-0001 | 450 | 30 | 4,2 | 2,8 | 54 | 2x7/42+2x8,5/46+2x10/60 | <b>79,70</b>  |
| PS210-0450-0002 | 450 | 30 | 4,2 | 2,8 | 76 | 2x7/42+2x8,5/46+2x10/60 | <b>95,65</b>  |
| PS210-0500-0002 | 500 | 30 | 4,2 | 2,8 | 60 | 2x7/42+2x8,5/46+2x10/60 | <b>95,65</b>  |
| PS210-0500-0003 | 500 | 30 | 5,0 | 3,6 | 84 | 2x7/42+2x8,5/46+2x10/60 | <b>125,05</b> |

d<sub>1</sub> - driving holes diameter  
d<sub>2</sub> - pitch diameter of holes  
o - saws on request

\* see the website for more products

**EXPERT'S ADVICE:**

- ▶ SUPER hard sintered carbide requires sharpening of saw blades in special points dealing with sharpening of tools on machinery which are equipped with continuous cooling systems - wet sharpening.
- ▶ Specially profiled shape of the blade of the knife HM 3GS (alternate top bevel) allows maintaining a very good quality of surfaces of processed materials.
- ▶ Series recommended for cutting of materials with height not exceeding 30 mm.



## HM saw blades LL CUT VH 3GS-5

batch cutting of frames and natural veneer materials

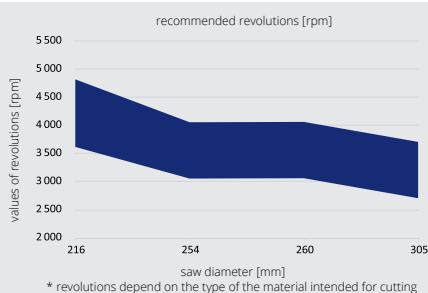
- ▶ saws designed for cutting of natural and artificial veneers, wood and wood-based strips and frames
- ▶ is characterized by an excellent surface after cutting and a very good edge surface after the blade exits the cut material
- ▶ SUPER HARD sintered carbide (NANOGRAIN) with hardness of 2.250 HV ensures a longer life time and allows multiple sharpening
- ▶ for precise cutting of structural components made of wood and finishing materials, e.g. towers, slides, carousels for playgrounds and strips, trusses, trellises etc.

| Index           |  |  |  |  |  |  | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | ilxd <sub>h</sub> /d <sub>p</sub>                                                   | eur/pc.   |
| PS322-0250-0001 | 250                                                                                 | 30                                                                                  | 3,2                                                                                 | 2,2                                                                                 | 80                                                                                  | 2x7/42+2x8,5/46+2x10/60                                                             | 56,25     |
| PS322-0300-0003 | 300                                                                                 | 30                                                                                  | 3,2                                                                                 | 2,2                                                                                 | 96                                                                                  | 2x7/42+2x8,5/46+2x10/60                                                             | 61,25     |

d<sub>h</sub> - driving holes diameter  
d<sub>p</sub> - pitch diameter of holes  
o - saws on request

\*see the website for more products





#### EXPERT'S ADVICE:

- ▶ SUPER hard sintered carbide requires sharpening of saw blades in special points dealing with sharpening of tools on machinery which are equipped with continuous cooling systems.
- ▶ MITER CRS1 - for cutting of hard wood-based materials like MDF and HDF, for cutting of chipboard coated with very hard laminate, conglomerate and PVC and aluminum profiles with wall thickness up to 2mm.
- ▶ MITER CRS2 is a universal saw blade for soft and hard wood cutting and it is dedicated also for cutting of plywood and wood-based materials with natural veneer.
- ▶ MITER CRS3 with aggressive geometry of toothing (3GS) for fast cutting of soft and hard wood – the required cutting quality should be adapted by selecting an adequate feed.

## HM saw blades in MITER line

for mitre saws

▶ SUPER HARD carbide tips (ULTRAFINE) with hardness of 2.100 HV ensure a longer life time of the tool

▶ produced as industrial saw blades where the deviation from the nominal size does not exceed hundredths of millimetre

▶ thin kerf and disc used give the feeling of easy saw blade operating while cutting

▶ cutting of materials made of wood, plastics and PVC, e.g. towers, slides, carousels, rocking chairs, sandboxes and houses for playgrounds and various profiles and strips, trusses, fences etc.

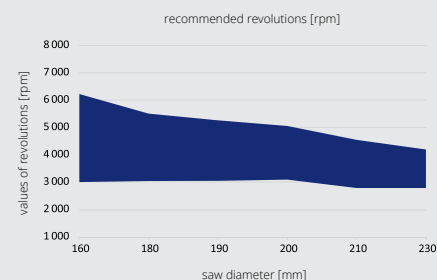


| Index           |  |  |  |  |  | Geometry | Series | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|--------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                   |                                                                                       |          |        | eur/pc.   |
| PS601-0216-0001 | 216                                                                                 | 30                                                                                  | 2,8                                                                                 | 2,0                                                                                  | 72                                                                                    | GA-5     | CRS1   | 49,75     |
| PS601-0254-0002 | 254                                                                                 | 30                                                                                  | 2,8                                                                                 | 2,0                                                                                  | 96                                                                                    | GA-5     | CRS1   | 60,30     |
| PS601-0260-0002 | 260                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 96                                                                                    | GA-5     | CRS1   | 56,60     |
| PS601-0305-0001 | 305                                                                                 | 30                                                                                  | 2,8                                                                                 | 2,0                                                                                  | 96                                                                                    | GA-5     | CRS1   | 70,15     |
| PS602-0216-0001 | 216                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 72                                                                                    | GS-5     | CRS2   | 49,75     |
| PS602-0254-0001 | 254                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 80                                                                                    | GS-5     | CRS2   | 58,15     |
| PS602-0260-0001 | 260                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 80                                                                                    | GS-5     | CRS2   | 58,15     |
| PS602-0305-0001 | 305                                                                                 | 30                                                                                  | 2,8                                                                                 | 2,0                                                                                  | 96                                                                                    | GS-5     | CRS3   | 70,15     |
| PS603-0216-0001 | 216                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 72                                                                                    | 3GS5     | CRS3   | 49,75     |
| PS603-0254-0001 | 254                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 96                                                                                    | 3GS5     | CRS3   | 60,30     |
| PS603-0260-0001 | 260                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 96                                                                                    | 3GS5     | CRS3   | 56,60     |
| PS603-0305-0001 | 305                                                                                 | 30                                                                                  | 2,7                                                                                 | 2,0                                                                                  | 96                                                                                    | 3GS5     | CRS3   | 70,15     |

\* see the website for more products

**EXPERT'S ADVICE:**

- ▶ Series equipped with special sintered carbide for cutting of steel with an increased content of cobalt and high impact resistance.
- ▶ Due to the designed feed limiter, it should not be used in cut-off machines with mechanical feed.
- ▶ Series with versatile applications and a high quality of cut surfaces.

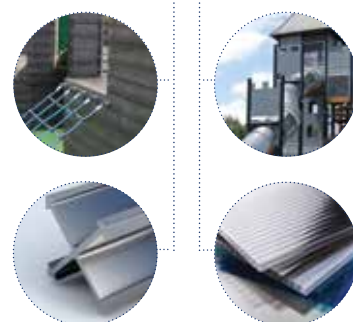


## HM saw blade 1GS5 TYPE OSA

for hand saws

- ▶ special teeth geometry 1GS5, alternate top bevel, facilitates moving of the saw blade during cutting of a wide range of materials
- ▶ special type and shape of sintered carbides and teeth construction guarantee a long lifetime and enable multiple sharpening, which improves their efficiency
- ▶ cutting of boards made of polycarbonate, conglomerates usually by sub-suppliers of half-products for production of hard landscaping materials or by companies installing finished products
- ▶ for processing of sandwich boards, metal parts and aluminum profiles with small thickness used in designing of doors, gates, walls and canopies

| Index           |     |    |     |     |    |                                                                                                                                                                     | PRICELIST |
|-----------------|-----|----|-----|-----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                 | mm  | mm | mm  | mm  |    | for power tools                                                                                                                                                     | eur/pc.   |
| PS680-0160-0001 | 160 | 20 | 2,7 | 1,6 | 32 | BOSCH GKS 55 CE, MILWAUKEE CS55, Metabo KS 54 SP, Metabo KSE 55 Plus, PROTOOL CSP 56 EQ, PROTOOL CSP 55 - 2, FESTOOL TS 55 EBQ                                      | 28,75     |
| PS680-0180-0001 | 180 | 20 | 2,7 | 1,6 | 36 | EINHELIN BHS 66/1, EINHELIN HK- PG 66/1                                                                                                                             | 32,30     |
| PS680-0190-0001 | 190 | 30 | 2,7 | 1,6 | 40 | BOSCH GKS 65 CE, MAKITA 5705R, HITACHI C7BU2, DEWALT D2365DK, Metabo KSE 68 Plus, PROTOOL CSP 68 EB, FESTOOL AP 65, MILWAUKEE SCS 65 Q, DWT HKS-190 VS, Celma DBRCc | 34,10     |
| PS680-0200-0001 | 200 | 30 | 2,7 | 1,6 | 42 | HITACHI C9U, METABO KS85, PERLES KS170, FESTOOL TS75EBQ                                                                                                             | 35,00     |
| PS680-0210-0001 | 210 | 30 | 2,7 | 1,6 | 42 | BLACK&DECKER KS 810, DWT HKS-210 VS, FESTOOL TS 75 EBQ, MILWAUKEE CS 75, REBI RZ 2-70-2,                                                                            | 35,85     |
| PS680-0230-0001 | 230 | 30 | 2,7 | 1,6 | 44 | FESTOOL CS 70, Metabo KS 85                                                                                                                                         | 38,55     |

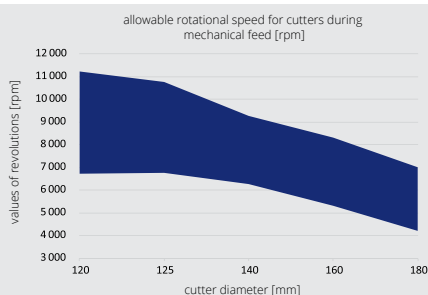






## MILLING IN THE PRODUCTION OF GARDENING PROGRAMMES

|           |                                                                                                   |    |
|-----------|---------------------------------------------------------------------------------------------------|----|
| CL011-072 | <b>Straight grooving cutters and planing cutters</b><br>with soldered HSS knives                  | 16 |
| CL101-111 | <b>Convex and concave semi-circular cutters</b><br>with soldered HSS knives                       | 17 |
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| CL530-540 | <b>Sets of cutters /ZZF/ for rounding off and bevelling</b><br>with soldered HSS knives           | 20 |
| CL530     | <b>Sets of cutters /ZFP/ for floor board</b><br>with soldered HSS knives                          | 21 |
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| CL600-602 | <b>Cutters with soldered HSS knives for glue joints (mini dovetails)</b><br>joining on length     | 26 |
| CL610     | <b>Cutters with cross connection</b>                                                              | 27 |
| LJ130     | <b>Cutterheads</b><br>for serrated back knives                                                    | 28 |
| LJ150-160 | <b>Planing cutterheads</b><br>4-knives / 6-knives                                                 | 29 |
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| LJ700     | <b>Knives and counter-knives for chippers and reelers</b><br>made of high speed steel HSS         | 34 |



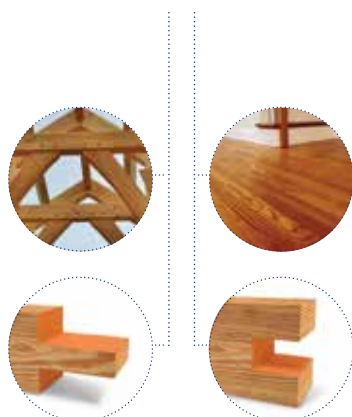
#### EXPERT'S ADVICE:

- ▶ CL011 - milling of grooves and rebates with rectangular cross-section and narrow planes in solid wood.
- ▶ CL021 - milling of grooves, rebates, tenons and mortises with rectangular cross-section in raw wood where high quality of socket side and edge surface is required.
- ▶ CL011 - milling of grooves and rebates with rectangular section and wide planes in solid wood.
- ▶ On request, we are able to execute atypical cutters - based on the drawing of the cutter of a milled component and according to the profile supplied by the customer.



## Straight grooving cutters and planing cutters with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel – a wide series of types allows selecting the correct tool for the given processing and the type of a machine
- ▶ if you need to repair the tool - we offer a wide range of after-sales services including sharpening, processing of holes and repairs of cutters
- ▶ most often used to execute rebates and grooves during the production of wooden fences and to level flat surfaces in structural beams and floors
- ▶ for milling of wet, raw wood or medium - hard wood on bottom-spindle milling machines, sizing and tenoning machines, multi-side planing machines with mechanical feed

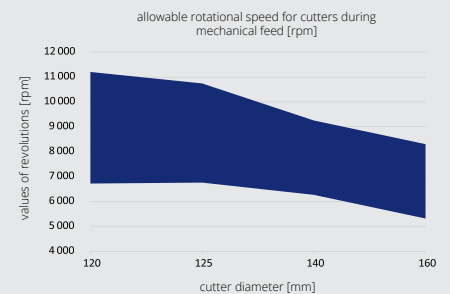


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|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                    |                                                                                       |                                                                                       | eur/pc.   |
| CL011-0125-0007 | 125                                                                                 | 30                                                                                  | 18                                                                                    | 4                                                                                     | -                                                                                     | 35,60     |
| CL011-0125-0008 | 125                                                                                 | 30                                                                                  | 20                                                                                    | 4                                                                                     | -                                                                                     | 37,75     |
| CL011-0140-0001 | 125                                                                                 | 30                                                                                  | 6                                                                                     | 4                                                                                     | -                                                                                     | 28,40     |
| CL011-0140-0002 | 140                                                                                 | 30                                                                                  | 8                                                                                     | 4                                                                                     | -                                                                                     | 28,90     |
| CL011-0160-0003 | 160                                                                                 | 30                                                                                  | 10                                                                                    | 4                                                                                     | -                                                                                     | 35,35     |
| CL011-0160-0004 | 180                                                                                 | 30                                                                                  | 12                                                                                    | 4                                                                                     | -                                                                                     | 39,10     |
| CL021-0120-0003 | 120                                                                                 | 30                                                                                  | 8                                                                                     | 2                                                                                     | 2                                                                                     | 35,05     |
| CL021-0140-0003 | 140                                                                                 | 30                                                                                  | 10                                                                                    | 2                                                                                     | 2                                                                                     | 40,40     |
| CL021-0160-0004 | 160                                                                                 | 30                                                                                  | 12                                                                                    | 2                                                                                     | 2                                                                                     | 45,50     |
| CL021-0180-0002 | 180                                                                                 | 30                                                                                  | 8                                                                                     | 2                                                                                     | 2                                                                                     | 41,50     |
| CL072-0120-0001 | 120                                                                                 | 30                                                                                  | 60                                                                                    | 4                                                                                     | -                                                                                     | 87,50     |
| CL072-0120-0002 | 120                                                                                 | 30                                                                                  | 80                                                                                    | 4                                                                                     | -                                                                                     | 108,35    |

\* see the website for more products

**EXPERT'S ADVICE:**

- ▶ CL101 (concave) and CL111 (convex) cutters dedicated for rounding of edges, milling of a decorative profile in solid wood.
- ▶ If you need to repair the tool - we offer a wide range of after-sales services including sharpening, processing of holes and repairs of cutters.
- ▶ On request, we are able to execute atypical cutters - based on the drawing of the cutter of a milled component and according to the profile supplied by the customer.



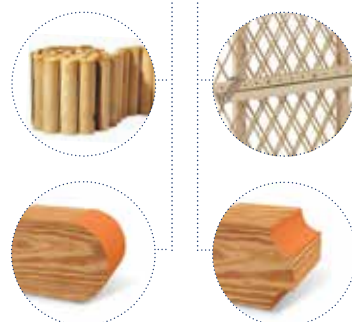
## Convex and concave semi-circular cutters

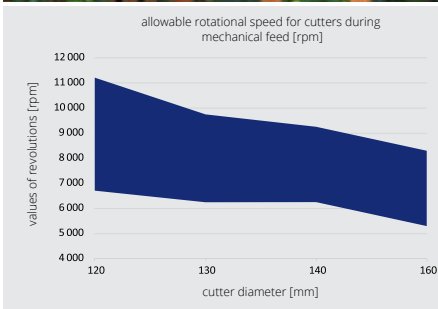
with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel
- ▶ a wide series of types (diameter / width of knife HSS) allows selecting the correct tool for the given processing and the type of a machine
- ▶ for milling of wet, raw wood or medium - hard wood on bottom - spindle milling machines, sizing and tenoning machines, multi-side planing machines with mechanical feed
- ▶ usually used for execution of roll boards during the production of hard landscaping materials

| Index           |  |  |  |  |  | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     |                                                                                     | eur/pc.   |
| CL101-0120-0001 | 120                                                                                 | 30                                                                                  | 26                                                                                  | 4                                                                                   | 8                                                                                   | 67,95     |
| CL101-0120-0002 | 120                                                                                 | 30                                                                                  | 30                                                                                  | 4                                                                                   | 10                                                                                  | 72,25     |
| CL101-0120-0004 | 120                                                                                 | 40                                                                                  | 35                                                                                  | 4                                                                                   | 12,5                                                                                | 90,70     |
| CL101-0160-0001 | 160                                                                                 | 30                                                                                  | 46                                                                                  | 4                                                                                   | 18                                                                                  | 111,05    |
| CL101-0160-0003 | 160                                                                                 | 30                                                                                  | 60                                                                                  | 4                                                                                   | 25                                                                                  | 148,50    |
| CL111-0125-0001 | 125                                                                                 | 30                                                                                  | 8                                                                                   | 4                                                                                   | 4                                                                                   | 40,40     |
| CL111-0125-0004 | 125                                                                                 | 30                                                                                  | 14                                                                                  | 4                                                                                   | 7                                                                                   | 53,00     |
| CL111-0125-0007 | 125                                                                                 | 30                                                                                  | 20                                                                                  | 4                                                                                   | 10                                                                                  | 65,30     |
| CL111-0160-0001 | 160                                                                                 | 30                                                                                  | 16                                                                                  | 4                                                                                   | 8                                                                                   | 63,95     |
| CL111-0160-0002 | 160                                                                                 | 30                                                                                  | 20                                                                                  | 4                                                                                   | 10                                                                                  | 66,10     |

\*see the website for more products





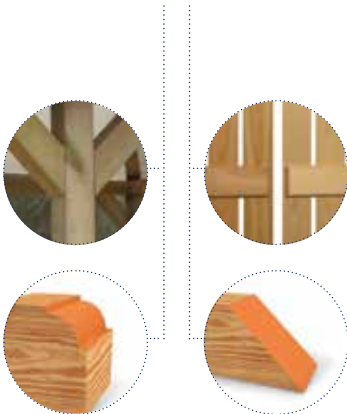
EXPERT'S ADVICE:

- ▶ CL091 cutters dedicated for rounding of edges, milling of a decorative profile in solid wood.
- ▶ Beveling cutters from CL121 subgroup can be used for milling at an angle of 45 degrees on narrow planes and for beveling of edges in solid wood.
- ▶ If you need to repair the tool - we offer a wide range of after-sales services including sharpening, processing of holes and repairs of cutters.
- ▶ On request, we are able to execute atypical cutters - based on drawing of the cutter of a milled component and according to the profile supplied by the customer.



Profile cutters, quarter round, concave, beveling with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality, high-speed steel
- ▶ a wide series of types (diameter / width of knife HSS) allows selecting the correct tool for the given processing and the type of a machine
- ▶ for milling of soft, wet, green wood or medium-hard wood on bottom-spindle milling machines, sizing and tenoning machines, multi-side planing machines with mechanical feed
- ▶ in the production of hard landscaping materials usually used for beveling or rounding of edges in structural beams, pales for fences, components for garden benches and tables

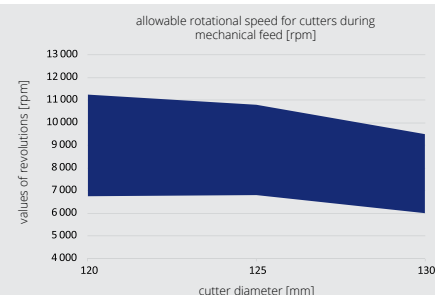


| Index           |  |  |  |  |  |  | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                   |                                                                                       |                                                                                       |                                                                                       | eur/pc.   |
| CL091-0120-0003 | 120                                                                                 | 30                                                                                  | 13                                                                                   | 4                                                                                     | R                                                                                     | 8                                                                                     | 57,00     |
| CL091-0120-0004 | 120                                                                                 | 30                                                                                  | 13                                                                                   | 4                                                                                     | L                                                                                     | 8                                                                                     | 57,00     |
| CL091-0120-0005 | 120                                                                                 | 30                                                                                  | 17,5                                                                                 | 4                                                                                     | R                                                                                     | 12,5                                                                                  | 57,55     |
| CL091-0120-0006 | 120                                                                                 | 30                                                                                  | 17,5                                                                                 | 4                                                                                     | L                                                                                     | 12,5                                                                                  | 57,55     |
| CL091-0160-0001 | 160                                                                                 | 30                                                                                  | 23                                                                                   | 4                                                                                     | R                                                                                     | 18                                                                                    | 77,85     |
| CL091-0160-0002 | 160                                                                                 | 30                                                                                  | 23                                                                                   | 4                                                                                     | L                                                                                     | 18                                                                                    | 77,85     |
| CL121-0120-0002 | 120                                                                                 | 30                                                                                  | 15                                                                                   | 4                                                                                     | L                                                                                     | -                                                                                     | 44,15     |
| CL121-0130-0002 | 130                                                                                 | 30                                                                                  | 20                                                                                   | 4                                                                                     | L                                                                                     | -                                                                                     | 51,40     |
| CL121-0140-0002 | 140                                                                                 | 30                                                                                  | 25                                                                                   | 4                                                                                     | L                                                                                     | -                                                                                     | 63,15     |
| CL121-0160-0002 | 160                                                                                 | 40                                                                                  | 35                                                                                   | 4                                                                                     | L                                                                                     | -                                                                                     | 92,05     |

\* see the website for more products

**EXPERT'S ADVICE:**

- ▶ Main knives of the head may be used to execute profiles with thickness up to 9 mm, e.g. a profile of decking board. Using such solutions and a pitch located inside the sockets, it is easy to process any width of the board.
- ▶ If you need to execute the profile of terrace board in straight knives - we can execute such a profile with the depth of 3-fold thickness of the knife.
- ▶ Tool versatility - one tool can be used to execute various roundings or bevels by quick replacement of knives.



## Cutterheads for rounding and beveling

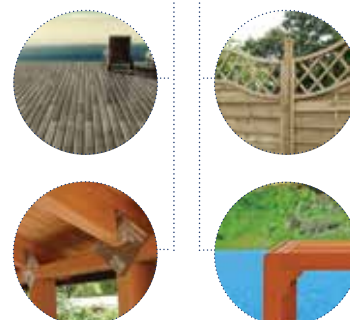
with soldered HSS knives

- ▶ A head made of a light aluminium alloy equipped with knives for planers HSS – a set of knives with various radiuses and lengths of bevels in the standard equipment of the head
- ▶ adjustable rounding or bevelling knives depending on the width of processed material - obtaining large adjustments of the processed material (heads are available in widths from 130 to 240 mm)
- ▶ the effect of head work is obtaining good surfaces of processed materials and a wide range of types allows selecting the correct tool for the given processing and the model of machinery
- ▶ in the production of hard landscaping materials usually used for beveling or rounding of edges in structural beams, pales for fences, components for garden benches and tables.

| Index           |  |  |  |  | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | eur/pc.   |
| LJ180-0125-0001 | 125                                                                                 | 40                                                                                  | 130                                                                                 | 2/2+2                                                                               | 326,45    |
| LJ180-0125-0002 | 125                                                                                 | 40                                                                                  | 140                                                                                 | 2/2+2                                                                               | 343,15    |
| LJ180-0125-0003 | 125                                                                                 | 40                                                                                  | 190                                                                                 | 2/2+2                                                                               | 421,80    |
| LJ180-0125-0004 | 125                                                                                 | 40                                                                                  | 230                                                                                 | 2/2+2                                                                               | 486,15    |
| LJ180-0125-0005 | 125                                                                                 | 40                                                                                  | 240                                                                                 | 2/2+2                                                                               | 500,40    |

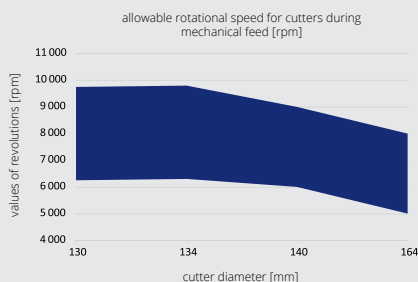
| Index           |  |  |  |  |  | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | eur/pc.   |
| LJ180-0000-0001 | 25                                                                                  | 28                                                                                  | 5                                                                                   | R 8                                                                                 | 2L+2R                                                                               | 39,00     |
| LJ180-0000-0002 | 25                                                                                  | 28                                                                                  | 5                                                                                   | R 5                                                                                 | 2L+2R                                                                               | 39,00     |
| LJ180-0000-0003 | 25                                                                                  | 26                                                                                  | 5                                                                                   | R 3                                                                                 | 2L+2R                                                                               | 39,00     |
| LJ180-0000-0004 | 25                                                                                  | 28                                                                                  | 5                                                                                   | 45° - length 8                                                                      | 2L+2R                                                                               | 39,00     |
| LJ180-0000-0005 | 25                                                                                  | 25                                                                                  | 5                                                                                   | 45° - length 8                                                                      | 2L+2R                                                                               | 39,00     |

\* see the website for more products





Tools in ACTION!



#### EXPERT'S ADVICE:

- ▶ These cutters can be used to mill components with various lengths using adjustment of cutters height with the use of spacers.
- ▶ Using the bottom and upper cutter, it is possible also to round the edge of a processed component or to bevel a profile (rotating cutters by 180°).
- ▶ Sets should be sharpened as a kit from one fixture, to maintain all diameter dimensions - it has impact on correct operation of a kit after sharpening.
- ▶ On request, we are able to execute cutters and atypical sets - based on the drawing of the cutter of a milled component and according to the profile supplied by the customer.



### Sets of cutters /ZZF/ for rounding off and bevelling with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel – a wide series of types allows selecting the correct tool for the given processing and the type of a machine
- ▶ particularly recommended for milling of wet, raw, soft wood or medium - hard wood from: pine, spruce, fir and birch
- ▶ in the production of hard landscaping materials usually used for bevelling or rounding of edges in structural beams, pales for fences, components for garden benches and tables.
- ▶ used in multi - side planers with mechanical feed and on bottom-spindle milling machines

| Index           | Type   |  |  |  |  | PRICELIST |
|-----------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                 |        | mm                                                                                  | mm                                                                                    | mm                                                                                    |                                                                                       | eur/pc.   |
| CL540-0134-0001 | ZZF.01 | 134                                                                                 | 40                                                                                    | 16-35                                                                                 | 4                                                                                     | 202,15    |
| CL530-0134-0002 | ZZF.01 | 134                                                                                 | 40                                                                                    | 16-35                                                                                 | 4                                                                                     | 202,15    |
| CL540-0134-0002 | ZZF.02 | 134                                                                                 | 40                                                                                    | 26-60                                                                                 | 4                                                                                     | 220,00    |
| CL530-0134-0001 | ZZF.02 | 134                                                                                 | 40                                                                                    | 26-60                                                                                 | 4                                                                                     | 220,00    |
| CL540-0134-0003 | ZZF.03 | 134                                                                                 | 40                                                                                    | 36-85                                                                                 | 4                                                                                     | 311,85    |
| CL540-0134-0004 | ZZF.03 | 134                                                                                 | 40                                                                                    | 46-105                                                                                | 4                                                                                     | 324,20    |

\* see the website for more products



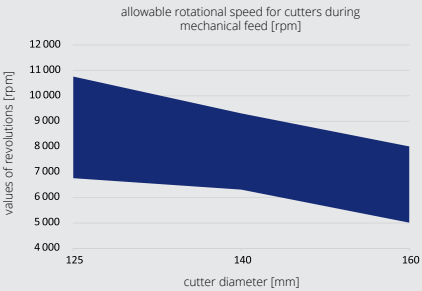


Tools in ACTION!



EXPERT'S ADVICE:

- ▶ These tools can be used to process components with various thicknesses - even to 45 mm.
- ▶ You will obtain various thicknesses using adjustment of cutters height using spacers.
- ▶ Sets should be sharpened as a kit from one fixture, to maintain all diameter dimensions - it has an impact on correct operation of a kit after sharpening of cutters.
- ▶ On request, we are able to execute cutters and atypical sets - based on the drawing of the cutter of a milled component and according to the profile supplied by the customer.



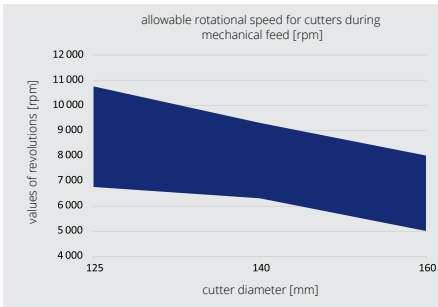
Sets of cutters /ZFP/ for floor board  
with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel – a wide series of types allows selecting the correct tool for the given processing and the type of a machine
- ▶ adapted for operation on one machine tool with cutters having code CL560 - for imitation of a balk
- ▶ particularly recommended for milling of wet, raw, soft wood or medium - hard wood from: pine, spruce, fir and birch
- ▶ usually used for execution of floorboards for terraces, patios or garden houses during the production of hard landscaping materials

| Index           | Type   |  |  |  |  | PRICELIST |
|-----------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 |        | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | eur/pc.   |
| CL530-0140-0019 | ZFP.01 | 140                                                                                 | 40                                                                                  | 16-29                                                                               | 4                                                                                   | 232,35    |
| CL530-0140-0020 | ZFP.02 | 140                                                                                 | 40                                                                                  | 28-45                                                                               | 4                                                                                   | 260,70    |

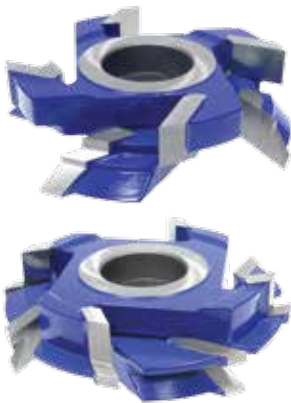
\* see the website for more products





EXPERT'S ADVICE:

- ▶ Sets should be sharpened as a kit from one fixture to maintain all diameter dimensions - it has an impact on correct operation of a kit after sharpening of cutters.
- ▶ These tools can be used to process components with various thicknesses.
- ▶ You will obtain various thicknesses using adjustment of cutters height using spacers.
- ▶ On request, we are able to execute cutters and atypical sets - based on the drawing of the cutter of a milled component and according to the profile supplied by the customer.



Sets of cutters /ZFB/ for wainscot with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel – a wide series of types allows selecting the correct tool for the given processing and the type of a machine
- ▶ particularly recommended for milling of wet, raw, soft wood or medium - hard wood from: pine, spruce, fir and birch
- ▶ used in multi-side planers with mechanical feed and on bottom-spindle milling machines
- ▶ usually used for execution of wainscot, soffit lining, shutter board during the production of hard landscaping materials

| Index           | Type   |  mm |  mm |  mm |  | PRICELIST                |
|-----------------|--------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|
| CL580-0140-0001 | ZFB.01 | 140                                                                                    | 40                                                                                       | 16-30                                                                                    | 4                                                                                     | eur/pc.<br><b>307,60</b> |

\* see the website for more products

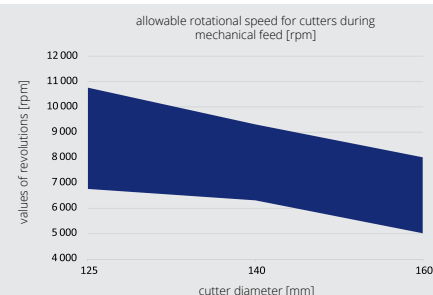




Tools in ACTION!

**EXPERT'S ADVICE:**

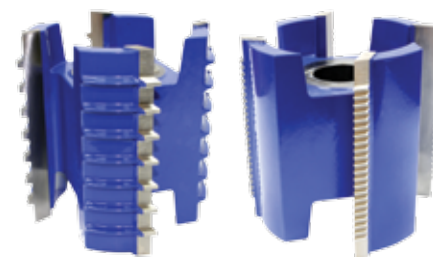
- ▶ Cutters with indexes CL570-0140-0001 + CL570-0140-0002 and CL570-0140-0003 + CL570-0140-0004 forms complete sets of cutters for terrace board.
- ▶ Cutters with indexes CL570-0140-0001 and CL570-0140-0003 are used to execute relief grooves in the processed material - these grooves protect board against warping after assembly.
- ▶ The number and shape of grooves may be different than in the standard given in the table. However, it requires execution of cutters on customer's individual order acc. to a drawing or a profile template.
- ▶ On request, we are able to execute cutters and atypical sets - based on the drawing of the cutter of a milled component and according to the profile supplied by the customer.



## Sets of cutters /ZDT/ for decking boards

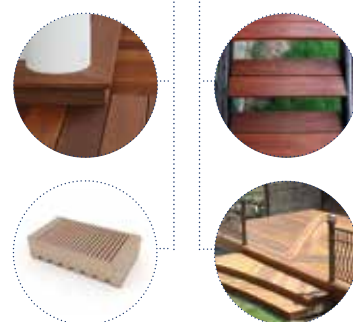
with soldered HSS knives

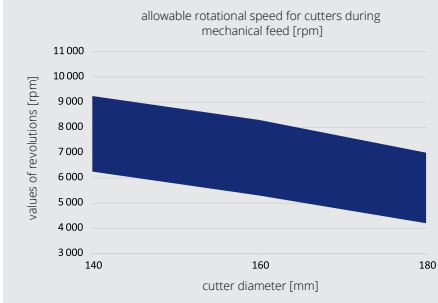
- ▶ cutters with soldered HSS knives made of high-quality high-speed steel – a wide series of types allows selecting the correct tool for the given processing and the type of a machine
- ▶ in the garden industry usually used to execute decking board for terrace floors and for facades, ledges, step treads or as roof soffit
- ▶ particularly recommended for milling of wet, raw, soft wood or medium-hard wood from: pine, spruce, fir and birch
- ▶ used in multi-side planers with mechanical feed and on bottom-spindle milling machines



| Index           | Type   |  |  |  |  | PRICELIST |
|-----------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 |        | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | eur/pc.   |
| CL570-0140-0001 | ZDT.01 | 140                                                                                 | 40                                                                                  | 140                                                                                 | 4                                                                                   | 405,00    |
| CL570-0140-0002 | ZDT.01 | 140                                                                                 | 40                                                                                  | 140                                                                                 | 4                                                                                   | 405,00    |
| CL570-0140-0003 | ZDT.02 | 140                                                                                 | 40                                                                                  | 150                                                                                 | 4                                                                                   | 427,50    |
| CL570-0140-0004 | ZDT.02 | 140                                                                                 | 40                                                                                  | 150                                                                                 | 4                                                                                   | 427,50    |

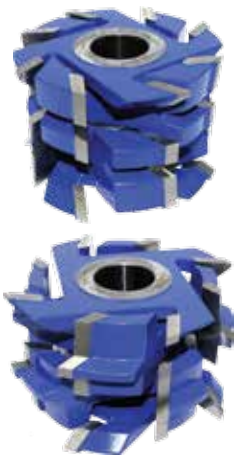
\* see the website for more products





EXPERT'S ADVICE:

- ▶ Range of thicknesses of the processed material can be adjusted using spacers.
- ▶ If you need to repair the tool - we offer a wide range of after-sales services including sharpening, processing of holes and repairs of cutters.
- ▶ If you need a cutter or a set with other parameters, please make an inquiry - we execute such tools based on the drawing of a cutter, a milled component or acc. to profile delivered by the customer.

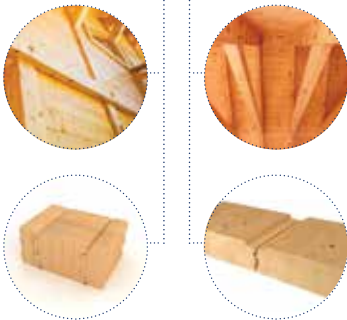


Sets of cutters /ZSD/ for wooden walls with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel – a wide series of types allows selecting the correct tool for the given processing and the type of a machine
- ▶ particularly recommended for milling of wet, raw, soft wood or medium-hard wood from: pine, spruce, fir and birch
- ▶ used in multi - side planers with mechanical feed and on bottom-spindle milling machines
- ▶ usually used for execution of wainscot, soffit lining, shutter board during the production of hard landscaping materials

| Index           | Type   |  |  |  |  | PRICELIST |
|-----------------|--------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                 |        | mm                                                                                  | mm                                                                                    | mm                                                                                    |                                                                                       | eur/pc.   |
| CL550-0160-0001 | ZSD.01 | 160                                                                                 | 40                                                                                    | 50-90                                                                                 | 4                                                                                     | 1044,50   |
| CL550-0160-0002 | ZSD.01 | 160                                                                                 | 40                                                                                    | 90-110                                                                                | 4                                                                                     | 1230,00   |

\* see the website for more products

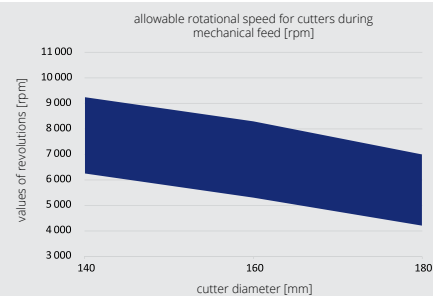




Tools in ACTION!

**EXPERT'S ADVICE:**

- ▶ If you need a cutter with other parameters, please make an inquiry - we execute such tools based on the drawing of a cutter, a milled component or acc. to the profile delivered by the customer.
- ▶ If you need to repair the tool - we offer a wide range of after-sales services including sharpening, processing of holes and repairs of cutters.
- ▶ Cutters used in multi-side planers, in particular on horizontal spindles with mechanical feed and on bottom-spindle milling machines.



## Cutters /ZIB/ for logs imitation

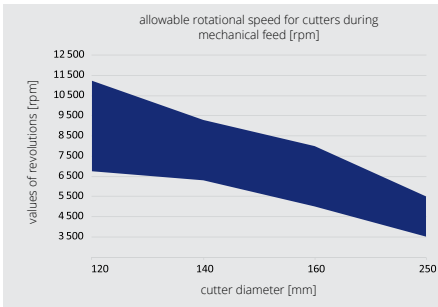
with soldered HSS knives

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel – a wide series of types allows selecting the correct tool for the given processing and the type of a machine
- ▶ adapted for operation on one machine tool with cutters having code CL530 – a set of cutters for floor board ZFP
- ▶ particularly recommended for milling of wet, raw, soft wood or medium - hard wood from: pine, spruce, fir and birch
- ▶ usually used to finish external (or internal) walls in wooden and masonry houses (finishing of facade) giving effect that the house is made of a whole balk

| Index           | Type   |  |  |  |  | PRICELIST |
|-----------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 |        | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | eur/pc.   |
| CL560-0160-0001 | ZIB.01 | 160                                                                                 | 40                                                                                  | 108                                                                                 | 4                                                                                   | 382,50    |
| CL560-0160-0002 | ZIB.01 | 160                                                                                 | 40                                                                                  | 160                                                                                 | 4                                                                                   | 499,50    |
| CL560-0160-0003 | ZIB.01 | 160                                                                                 | 40                                                                                  | 212                                                                                 | 4                                                                                   | 782,00    |

\* see the website for more products





EXPERT'S ADVICE:

- ▶ Joining wood along length from short or longer material sections is used to: - obtain long pieces, using shorter boards or strips from a lower-quality raw material; - obtain the highest-quality product after removal of knots and defects; - manage waste materials.
- ▶ Joining on length is used during the production of: - construction timber (beams, square-sawn timber, barks, boards, laths); - flexible structures (roof cradle with fancy shapes); - wooden doors and windows; wooden furnitures (legs, countertops); - components of stairs; - wooden (posts, balustrades); - and in model-marking.

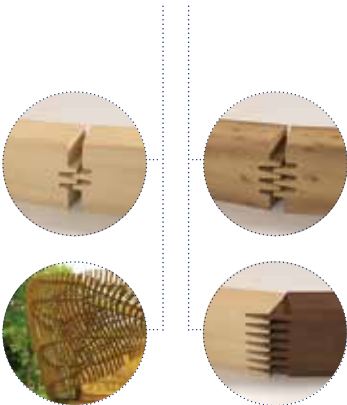


Cutters with soldered HSS knives for glue joints (mini-dovetails) longitudinal connection

- ▶ cutters with soldered HSS knives made of high-quality high-speed steel
- ▶ The possibility to process various widths of materials and the possibility to join cutters CL602 into sets – the executed joint distinguishes with very high rigidity and strength
- ▶ milling of multi-link on faces of joined components - on V-pattern or with a line (CL602)
- ▶ used on bottom-spindle milling machines, sizing and tenoning machines, single and double-sided with mechanical feed

| Index           |  |  |  |  |  |  |  | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                    | mm                                                                                    | $\frac{1}{2}$<br>3                                                                    |  | eur/pc.   |
| CL600-0140-0001 | 140                                                                                 | 40                                                                                  | 20 - 50                                                                             | 10                                                                                    | 13                                                                                    | 2                                                                                     | 4                                                                                     | 293,50    |
| CL600-0140-0002 | 140                                                                                 | 40                                                                                  | 20 - 60                                                                             | 10                                                                                    | 13                                                                                    | 2                                                                                     | 4                                                                                     | 305,00    |
| CL601-0140-0001 | 140                                                                                 | 40                                                                                  | 25 - 40                                                                             | 12                                                                                    | 21                                                                                    | 3                                                                                     | 4                                                                                     | 281,50    |
| CL601-0140-0002 | 140                                                                                 | 40                                                                                  | 25 - 50                                                                             | 12                                                                                    | 21                                                                                    | 3                                                                                     | 4                                                                                     | 310,00    |
| CL601-0140-0003 | 140                                                                                 | 40                                                                                  | 25 - 60                                                                             | 12                                                                                    | 21                                                                                    | 3                                                                                     | 4                                                                                     | 344,75    |
| CL602-0250-0001 | 250                                                                                 | 50                                                                                  | 28,6                                                                                | 10                                                                                    | 3,8                                                                                   | 7                                                                                     | 6                                                                                     | 331,25    |

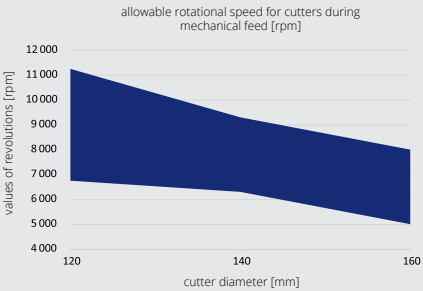
\* see the website for more products





EXPERT'S ADVICE:

- ▶ Joining wood along width from short or longer material sections is used to: - obtain long pieces, using shorter boards or strips from a lower-quality raw material; - obtain the highest-quality product after removal of knots and defects; - manage waste materials.
- ▶ Joining on width is used during the production of: - wood for table tops (e.g. kitchen); - ledges made of solid slats; - wooden laminate floor planks; - shelves; - steps of wooden stairs; - flat structures for cabinet furnitures (e.g. beds); - wooden furnitures, in particular - furniture doors.



## Cutters with soldered HSS knives for glue joints (mini-dovetails)

cross connection

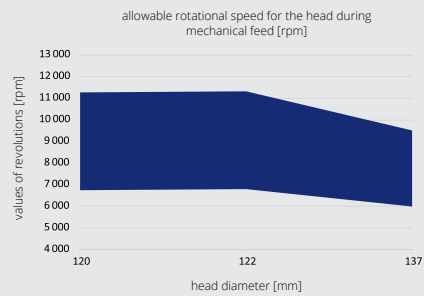
- ▶ cutters with soldered HSS knives made of high-quality high-speed steel
- ▶ the executed joint distinguished with very high strength and rigidity, joint prevents bending / twisting of wood
- ▶ execution of multi-link joints on surfaces of side components joined on width with a line on the plane
- ▶ used on bottom-spindle milling machines, sizing and tenoning machines, single and double-sided with mechanical feed



| INDEX           |  |  |  |  |  |  |  | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                  | mm                                                                                  | $\frac{1}{2}$<br>3                                                                  | $\frac{1}{2}$<br>3                                                                  | eur/pc.   |
| CL610-0140-0001 | 140                                                                                 | 40                                                                                  | 18 - 50                                                                             | 5                                                                                   | 14                                                                                  | 2                                                                                   | 4                                                                                   | 213,25    |

\* see the website for more products





**EXPERT'S ADVICE:**

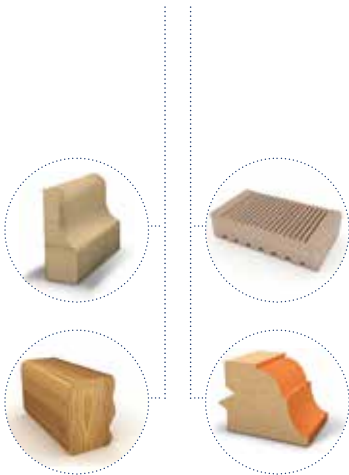
- ▶ The maximum depth of the profile shape for execution - 3-fold thickness of the knife, that is even to 24 mm.
- ▶ The cutterhead is very versatile - serrated back knives with various shapes.
- ▶ Profiling of knives HSS is executed upon request, acc. to the template made of wood or the drawing from the customer.
- ▶ If you need a cutterhead with other parameters, please make an inquiry - we are able to execute heads with various diameters and widths and a number of teeth.



## Cutterheads

for serrated back knives

- ▶ the cutterhead body made of high-quality tool steel
- ▶ grooves in the cutter - head socket protect the knife against uncontrolled moving out. Furthermore, the grooves in the cutterhead socket and on the knife facilitate assembly and setting the knives in the cutterhead
- ▶ wide series of types allowing selection of correct tool for the given processing and the type of a machine -for bottom-spindle milling machines, multi-sided planers with mechanical feed
- ▶ during the production of hard landscaping materials usually used for execution of various and complex shapes where high precision and accuracy of the profile is required

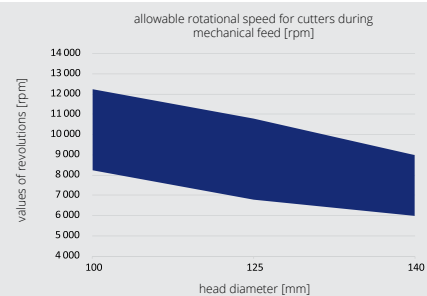


| Index           |     |    |     |   | PRICELIST |
|-----------------|-----|----|-----|---|-----------|
|                 | mm  | mm | mm  |   | eur/pc.   |
| LJ130-0122-0001 | 122 | 40 | 40  | 4 | 103,25    |
| LJ130-0122-0002 | 122 | 40 | 50  | 4 | 110,85    |
| LJ130-0122-0003 | 122 | 40 | 60  | 4 | 124,55    |
| LJ130-0122-0004 | 122 | 40 | 80  | 4 | 139,50    |
| LJ130-0122-0005 | 122 | 40 | 100 | 4 | 148,10    |
| LJ130-0122-0008 | 122 | 40 | 120 | 4 | 174,20    |
| LJ130-0122-0007 | 122 | 40 | 160 | 4 | 198,70    |
| LJ130-0122-0006 | 122 | 40 | 180 | 4 | 223,10    |
| LJ130-0122-0009 | 122 | 40 | 230 | 4 | 310,15    |

\* see the website for more products

**EXPERT'S ADVICE:**

- ▶ The undeniably light body made of an aluminium alloy is an important component of this head.
- ▶ The light body increases lifetime of the driving system such as shafts or bearings and decreases power consumption from the motor – the weight of this head is half as small as in the case of the standard head with the body made of steel.
- ▶ Knives made of high speed steel HSS are also included in additional equipment of the head.



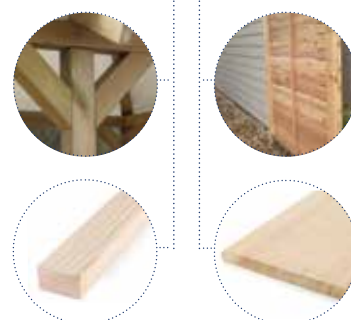
## Planing cutterheads

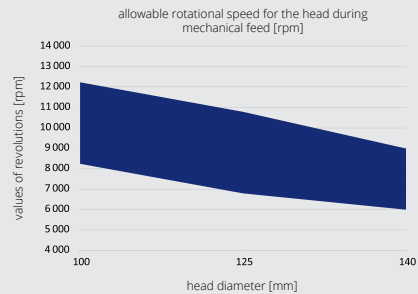
4-knives / 6-knives

- ▶ The head made of a light aluminium alloy
- ▶ the option of profiles execution on knives to the depth of 3-fold thickness of the knife (e.g. a template of terrace board)
- ▶ the option to install knives for planers with HM insert + option of the execution of the head with a various diameter and width and a number of teeth
- ▶ used in multi-side planers with mechanical feed

| Index           |     |    |     |   | PRICELIST     |
|-----------------|-----|----|-----|---|---------------|
|                 | mm  | mm | mm  |   | eur/pc.       |
| LJ150-0125-0006 | 125 | 40 | 200 | 4 | <b>278,65</b> |
| LJ150-0125-0007 | 125 | 40 | 230 | 4 | <b>323,80</b> |
| LJ160-0140-0001 | 140 | 40 | 230 | 6 | <b>394,40</b> |

\* see the website for more products





EXPERT'S ADVICE:

- ▶ The quality of processed surfaces depends not only on the quality of knives in the head but also on the correct setting of knives in the head with respect to each other.
- ▶ Please remember that the choice of the given type of a knife for planned works depends on the density and hardness of the processed material.
- ▶ The knife should not protrude outside the head by more than two times its thickness (e.g. the knife with 3 mm thickness should not protrude by more than 6 mm).

## Knives for planers

for planing of wood on planers

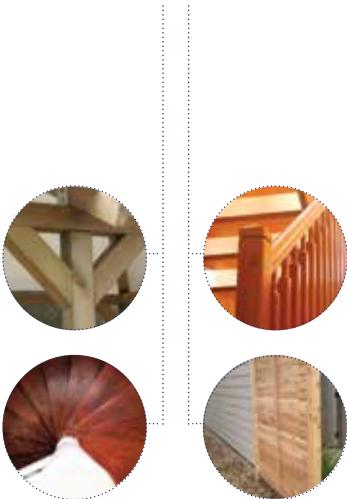


- ▶ in the production of hard landscaping materials very often used in planing heads on multi-head machine tools - four-sided
- ▶ for planing of structural components of posts, handrails, step treads made of wood before the profiling process
- ▶ HSS PREMIUM and STANDARD knives differ with the class of execution - HSS PREMIUM knife is made in I accuracy class, while HSS STANDARD knife in II accuracy class
- ▶ it is recommended to use HSS STANDARD knife for softwood and HSS PREMIUM knife for hardwood (deciduous)

| Index           |  |  |  |  | Knife material | Machined material | PRICELIST |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|-------------------|-----------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                       |                |                   | eur/pc.   |
| NS135-0200-0002 | 200                                                                                 | 30                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS STANDARD   | softwood          | 7,95      |
| NS135-0200-0001 | 200                                                                                 | 35                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS STANDARD   | softwood          | 8,00      |
| NS135-0230-0001 | 230                                                                                 | 30                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS STANDARD   | softwood          | 8,60      |
| NS135-0230-0002 | 230                                                                                 | 35                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS STANDARD   | softwood          | 9,35      |
| NS130-0200-0002 | 200                                                                                 | 30                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS PREMIUM    | hardwood          | 10,30     |
| NS130-0200-0001 | 200                                                                                 | 35                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS PREMIUM    | hardwood          | 10,40     |
| NS130-0230-0001 | 230                                                                                 | 30                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS PREMIUM    | hardwood          | 11,20     |
| NS130-0230-0002 | 230                                                                                 | 35                                                                                  | 3,0                                                                                 | 43°                                                                                   | HSS PREMIUM    | hardwood          | 12,15     |

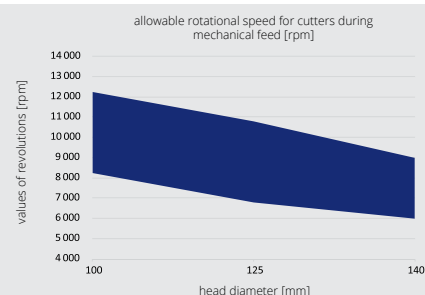
o- on request

\*see the website for more products



**EXPERT'S ADVICE:**

- ▶ The undeniably light body made of an aluminium alloy is an important component of this head.
- ▶ The head is adapted for work on high rotation parameters and large feeds.
- ▶ Used in bottom-spindle milling machines, tracing and pattern machines, multi-head planers with mechanical feed.
- ▶ If you need insert knives HM for this head - you may order LJ555-3012-0001, LJ555-3012-0002, LJ555-3012-0003 knives from our stock.



## Spiral jointing planing cutterheads

with insert HM knives / blades

- ▶ The head made of a light aluminium alloy and equipped with two-sided knives HM
- ▶ the possibility to select the type of knives made of sintered carbide (for wood, universal, wood-based materials) and the use of the head for processing of the given material.
- ▶ special arrangement of HM knives on the spiral - such an arrangement decreases cutting resistance and leaves a very good quality of the surface after processing
- ▶ for processing of solid, hard and dry wood - planing of flat and curved surfaces of structural beams, floor decking boards, components after joining on width or length

| Index           |  |  |  |  | PRICELIST     |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | eur/pc.       |
| LJ170-0100-0001 | 100                                                                                 | 40                                                                                  | 180                                                                                 | 24                                                                                  | <b>480,00</b> |
| LJ170-0125-0001 | 125                                                                                 | 40                                                                                  | 180                                                                                 | 24                                                                                  | <b>527,50</b> |

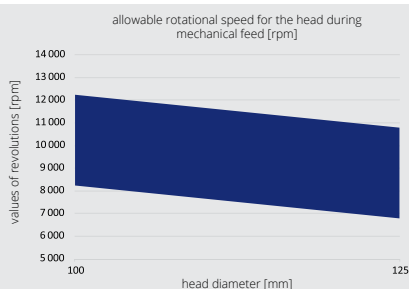
\* see the website for more products

| Index           |  |  |  | Number of cutting edges | Application                        | PRICELIST   |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|------------------------------------|-------------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |                         |                                    | eur/pc.     |
| LJ555-3012-0001 | 30                                                                                  | 12                                                                                  | 1,5                                                                                 | Z2                      | universal                          | <b>2,10</b> |
| LJ555-3012-0002 | 30                                                                                  | 12                                                                                  | 1,5                                                                                 | Z2                      | for hard wood                      | <b>2,40</b> |
| LJ555-3012-0003 | 30                                                                                  | 12                                                                                  | 1,5                                                                                 | Z2                      | for board and wood-based materials | <b>2,50</b> |





look &amp; feel ON!

**EXPERT'S ADVICE:**

- ▶ The undeniably light body made of an aluminium alloy is an important component of this head.
- ▶ The possibility to select the type of knives made of sintered carbide (for wood, universal, wood-based materials) and the use of the head for processing of the given material.
- ▶ Do you need insert knives HM? You can order the knives from the following indexes: LJ555-1414-0001, LJ555-1414-0002, LJ555-1414-0003, LJ555-5012-0006, LJ555-5012-0007.
- ▶ The head used in bottom-spindle milling machines, tracing and pattern machines, multi-head planers with mechanical feed.



## Rebating cutterheads with spurs

with insert HM knives

- ▶ the cutterhead made of an aluminium alloy and equipped with a set of insert knives HM
- ▶ location of knives with respect to the tool axis allows obtaining a very good quality of the surface, better chip removal and have an impact on smoother operation of the tool
- ▶ it is used for applications where it is necessary to achieve a high quality of processing of side surfaces and socket edges
- ▶ for processing / milling of grooves and rebates with rectangular crosssection - planing of flat and curved surfaces of floor board, structural beams, components for garden benches and tables etc.

| Index           |     |    |    |   |     | PRICELIST     |
|-----------------|-----|----|----|---|-----|---------------|
|                 | mm  | mm | mm |   |     | eur/pc.       |
| LJ051-0100-0001 | 100 | 30 | 50 | 4 | 2+2 | <b>133,05</b> |
| LJ051-0125-0001 | 125 | 30 | 50 | 4 | 2+2 | <b>142,85</b> |

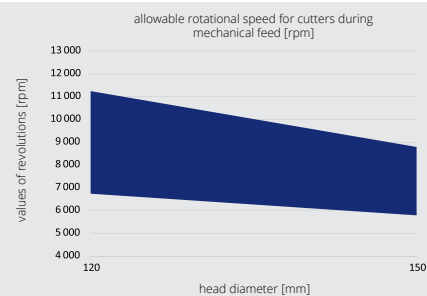
\* see the website for more products



| Index           |    |    |     | Number of cutting edges | Application                        | R/L | PRICELIST   |
|-----------------|----|----|-----|-------------------------|------------------------------------|-----|-------------|
|                 | mm | mm | mm  |                         |                                    |     | eur/pc.     |
| LJ555-1414-0001 | 14 | 14 | 2,0 | Z4                      | universal                          | -   | <b>1,65</b> |
| LJ555-1414-0002 | 14 | 14 | 2,0 | Z4                      | for hard wood                      | -   | <b>2,15</b> |
| LJ555-1414-0003 | 14 | 14 | 2,0 | Z4                      | for board and wood-based materials | -   | <b>2,10</b> |
| LJ555-5012-0006 | 50 | 12 | 1,5 | Z2                      | universal                          | L   | <b>5,20</b> |
| LJ555-5012-0007 | 50 | 12 | 1,5 | Z2                      | universal                          | R   | <b>5,20</b> |

**EXPERT'S ADVICE:**

- ▶ The head adapted for post-finishing and work on small allowances.
- ▶ The possibility to select the type of knives made of sintered carbide (for wood, universal, wood-based materials) and the head for processing of the given material.
- ▶ Do you need insert knives HM? You can order the knives from the following indexes: LJ555-1414-0001, LJ555-1414-0002, LJ555-1414-0003.
- ▶ If you use a template - on request, we execute bearings for the head to ensure its correct work after the template.



## Spiral cutterheads with a split cutting edge

with insert HM knives

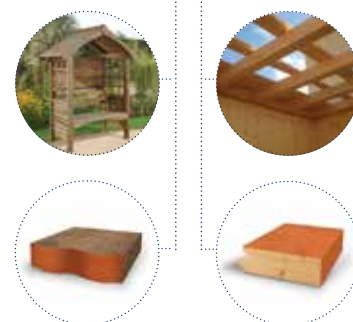
- ▶ made of an aluminium alloy and equipped with a set of insert knives HM
- ▶ special arrangement of HM knives on the spiral - such an arrangement decreases cutting resistance and leaves a very good quality of the surface after processing
- ▶ milling of curved planes and surfaces (processing of solid, hard and dry wood) - planing of the surface of floor board, posts, structural components for garden benches and tables etc.
- ▶ used in bottom-spindle milling machines, tracing and pattern machines, multi-head planers with mechanical feed



| Index           |  |  |  |  | PRICELIST     |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |                                                                                     | eur/pc.       |
| LJ090-0120-0101 | 120                                                                                 | 40                                                                                  | 80                                                                                  | 3+3                                                                                 | <b>194,20</b> |
| LJ090-0150-0001 | 150                                                                                 | 40                                                                                  | 100                                                                                 | 3+3                                                                                 | <b>281,65</b> |

\* see the website for more products

| Index           |  |  |  | Number of cutting edges | Application                        | PRICELIST   |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|------------------------------------|-------------|
|                 | mm                                                                                  | mm                                                                                  | mm                                                                                  |                         |                                    | eur/pc.     |
| LJ555-1414-0001 | 14                                                                                  | 14                                                                                  | 2,0                                                                                 | Z4                      | universal                          | <b>1,65</b> |
| LJ555-1414-0002 | 14                                                                                  | 14                                                                                  | 2,0                                                                                 | Z4                      | for hard wood                      | <b>2,15</b> |
| LJ555-1414-0003 | 14                                                                                  | 14                                                                                  | 2,0                                                                                 | Z4                      | for board and wood-based materials | <b>2,10</b> |





EXPERT’S ADVICE:

- ▶ The ideal solution for crushing of wooden components, branches and turning logs of wood to specified diameter.
- ▶ The possibility to execute counter-knives.
- ▶ We execute also knives and counter-knives based on the template or the drawing from the customer, taking into account the limit dimensions given in the below table.



Knives and counter-knives for chippers and reeler  
made of high speed steel HSS

- ▶ made of high-quality tool steel distinguishing with high strength and high impact resistance
- ▶ high hardness of the knives from 55 ÷ 60 HRC
- ▶ blade angle from 30° ÷ 40°, dependent on the application and type of processing on machinery

| INDEX / SUBGROUP | <br>mm | <br>mm | <br>mm | PRICELIST<br>eur/pc.                                                                  |
|------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| LJ700-           | 10 - 1000                                                                                 | 10 - 500                                                                                    | 2 - 30                                                                                      |  |

o  
o- on request





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### TOOLS UPON REQUEST

On individual orders, we execute also tools with other technical parameters, depending on the application and needs of the customer.

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### WE MANUFACTURE ARBOR CUTTERS OR CUTTERHEADS IN VERSION WITH HSS OR HM KNIFE DEPENDING ON THE TYPE OF THE MILLED MATERIAL:

- ▶ cutters or heads with HSS knife are recommended for processing of solid, soft wood or medium-hard wood
- ▶ cutters or heads with HM knife are recommended for processing of solid, glued hardwood or wooden-based materials

The price offer for the execution of saw blades or cutters is prepared based on the obtained profile drawing, with dimensions or based on the finished component processed with the given tool.



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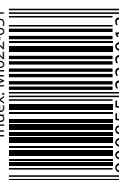
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