

# PLANER TOOLS

CUTTING EXCELLENCE. CLOSE TO YOU.

**LSAB**  
cutting excellence







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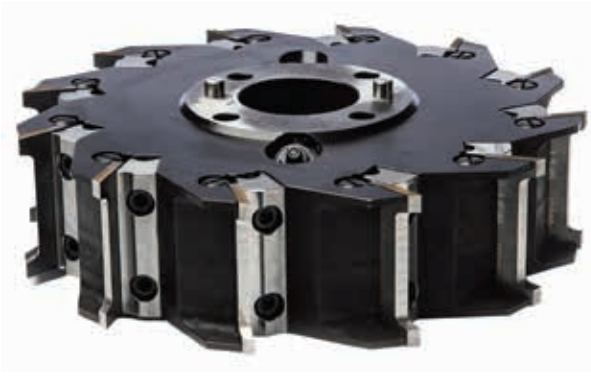


# About LSAB

LSAB produce and deliver solutions to the woodworking industry worldwide. Our philosophy is to take responsibility for the products during their lifetime. This means full service and support. Our head office is in Sweden and we operate with production sites in a total of 6 countries.

With a close cooperation with machine producers and end-users we are able to offer customized and optimized solutions to fit your unique application. Welcome to LSAB!





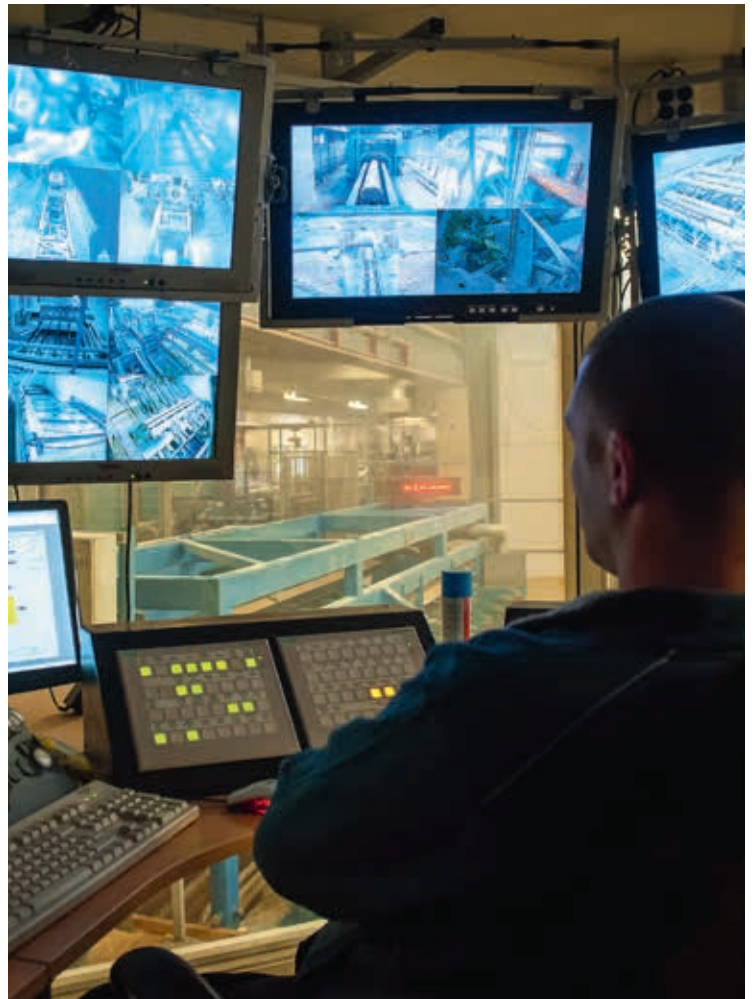
# Excellent innovations

Research and development is a constant task at LSAB, and always in close cooperation with our customers. Most product ideas come from challenges we face. Our R&D-team are experts in finding solutions that change the limit of what is possible.

A cooperation between developers, production, specialists and end-users result in a combination of technical expertise, experience from the industry and cost efficiency. This provides us with the best conditions to achieve our highly set objectives.

# Excellent optimization

Our mission is to add to our customers' profit by delivering world class solutions for demanding applications. To create the best possible value and reach the result we promise, LSAB:s Sales Managers and Product Specialists are trained in optimization. This means that we, together with expertise in tools, also have relevant knowledge in machines and materials to be able to optimize processes. The result is fewer and shorter stops, increased production, better surfaces and increased lifetime. The outcome is of course measurable.







## Excellent service

LSAB has developed and produced tools for over 40 years. So who can be more suitable to take care of them when it's time for service? Our "Centers of Excellence" can be found at a number of places in Sweden, and also in Finland, Norway, Russia and The Baltics. We have different clever solutions for shortest possible delivery time. Be sure to order hydro grease, grinding wheels or other accessories together with the service. It saves money and the environment.

## Excellent environment

In this business, it's of essence for us to keep our impact on the environment to a minimum, otherwise we lose all credibility. It means that all co-workers at LSAB make their decisions with sustainability in mind. It's with us in everything we do, from the choice of chemicals to logistics, and we have high demands on our suppliers.

To increase our customers' yield is of course also part of our environmental focus. To get the highest possible value from the limited material is not only good for our environment, it also adds to our customers' profit.









# Concepts for different needs

## LSAB *excellent*<sup>™</sup>

The most advanced tools in the market with full flexibility, suitable for demanding applications.

## LSAB *extreme*<sup>™</sup>

LSAB Extreme is our concept for complete responsibility for tooling in close cooperation with client.



# Technical information

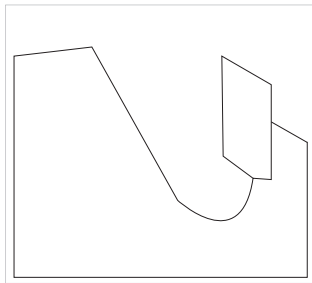
LSAB produces tools according to EN847-1. We would recommend all users such as operators, service and maintenance personal, technicians etc that are in contact with the tools to thoroughly review these standards. Below is a short compilation of different tool types, appellations, techniques and basic information about working with wood and choosing the right tool.

## Basic concepts and appellations

### 1. BRAZED TOOLS

The tool consists of a tool body made of untempered steel. The cutting edges are brazed to the tool body and can be ordered with different types of cutting material. Page 14.

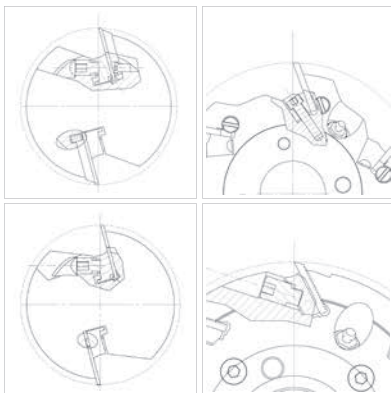
Example of tools: Cutters, drills, saw blades



### 2. ASSEMBLED TOOLS

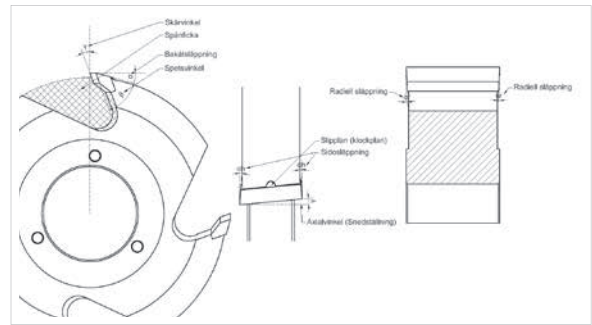
Assembled tools consist of a variety of parts mounted together. The knives are fastened by either a wedge or a directly with a screw. There are different solutions for back support, a profiled back support plate for maximum flexibility or a profiled tool body. Knives are exchangeable and available in a selection of materials.

Example of tools: Planer heads, Profile heads, indexable knife tools, LSAB SpeedFlex, LSAB Supreme



## Angles and geometries

When ordering and corresponding regarding tools it is of great importance that supplier and customer use the same language and terms. Below is a short description of the technical terminology we use.



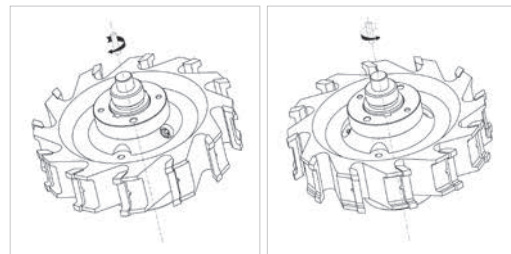
## Fundamental terminology, rotation and placing

Following is terms of trade for where and how a tool is placed in your application. Normally a planer/moulder has four sides for processing. Top, bottom, right and left.

- Top = Top part of the machine
- Bottom = Bottom part of the machine
- Right = Right side looking from the in feed
- Left = Left side looking from the in feed

## Rotation

LSAB always reference from the in feed side, feeding towards rotation of the tool. The vast majority of planers on the market are feeding from the right side but please advise because left side feeding does occur. See picture.





## Machining

### 1. FEEDING TOWARDS ROTATION(CONVENTIONAL MILLING)

The direction of material feed and rotation of tool is the opposite. This is the most common way for machining wood. The tool does not begin its cut directly upon contact(A) but slightly after(B). In this point the tool begins to cut a long chip that thickens until the cutting edge leaves the material(C). Feeding towards rotation allows longer running times by favorable angles and lower cutting force. Adverse fibre direction can effect cutting and result in chipping. Feeding towards rotation is the only course of action recommended for manual feed.

### 2. FEEDING WITH THE ROTATION(CLIMB MILLING) (HIGHLY UNCOMMON FOR PLANING/MOULDING)

The direction of material feed and tool rotation is the same. The tool immediately begins to cut upon contact and in this point starts to cut a short chip that will get thinner until the cutting edge leaves the material. Feeding like this allows good surface finish and requires lower feeding force. When feeding with rotation, running times will be effected negatively due to unfavorable angles and lack of cleavage. LSAB recommends this for mecanical feed only.

## Cutting directions

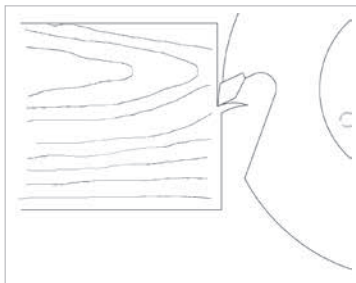
### 1. CUTTING ALONG THE FIBRES

Favorable cutting conditions which in most cases provide a good surface finish. Be advised that when cutting finger jointed materials the fibre direction can vary. Cleavage will then differ and can effect the surface finish.



### 2. END GRAIN CUTTING

The angle between the tool direction and the fibres is 90°. Tough machining that can result in a slightly rough finish. Cutting can be eased by applying axial angle to the cutting edge.



## Surface finish

To maintain a high quality production it is of great importance that tools as well as machine is in good condition. By highly developed technology, competence and meticulous supervision at LSAB, run out as well as profile accuracy is kept within the tightest tolerances. The surface finish when milling and sawing is determined mainly by feed per tooth, mm(mill marks), cutting diameter, amount of teeth, depth of mill marks. The ratio for these parameters is described in the following examples.

$$S_z = \text{Feed per tooth, mill marks (mm)}$$

$$V_f = \text{Feed (m/min)}$$

$$N = \text{Revolutions per minute (rpm)}$$

$$Z = \text{Amount of teeth}$$

$$S_z = \frac{V_f * 1000}{N * Z} \text{ mm}$$

Depth of mill marks can be calculated as example below

$$t = \text{Depth of mill marks}$$

$$D = \text{Cutting diameter}$$

$$t = \frac{S_z^2}{4 * D}$$

Cutting speed(periferal velocity) is decided by the tool diameter and revolutions per minute, calculated as below.

$$D = \text{Cutting diameter}$$

$$N = \text{Revolutions per minute}$$

$$\pi = 3,14$$

$$V_c = \frac{D * \pi * N}{1000 * 60} \text{ m}$$

When milling, shorter mill marks provide better surface finish.

- $S_z = 0,3-0,8\text{mm}$  eg furniture/carpentry
- $S_z = 0,8-2,5\text{mm}$  eg paneling
- $S_z = 2,5-5,0\text{mm}$  eg construction wood

For tools without hydro, earlier advised formula can only be calculated with Z1. To achieve a proper finish from all Z in a tool, hydro clamping is necessary.

## Jointing

When jointing a whetstone is run across the rotating tool, it is done to improve the run out. This method is mainly used on planer cutters but can also be applied for profiling. The repetition between the grinding machine and the planer can differ slightly, this will effect the run out negatively. Jointing will eliminate this deviation and provide a better surface finish. Another benefit from jointing is that it strengthens the edge of the knife, the disadvantage is that the knife loses some of its sharpness because the edge is rounded off.



# Safety

In the process of sawing and milling wood, operators are exposed to great hazard. The tools used are heavy, very sharp and rotates at high velocity, therefore its extremely important to take part of the manuals and safety regulations provided by LSAB.

LSAB produces tools according to EN847-1 which is the european safety standard for milling tools and saw blades. Example of demands in EN847-1 is the grade of accuracy used for balancing the tools and also the marking of tools. Given demands for marking of for example a brazed tool is that the following parameters are permanently marked in the tool.

- The name or trade mark of the manufacturer or supplier
- The maximum rotation speed (eg max 6000rpm)
- The tool dimensions (Cutting diameter, cutting width, bore diameter)
- Cutting material group
- Integrated or manual feed (eg MEC for integrated feed)

## General instructions

Always follow the instructions given on a tool or drawing regarding maximum revolutions per minute. This is what the tools are designed for and exceeding it will place personnel, machine and peripherals at great risk. Most machines has an integrated solution for securing the rotation of tools and if this solution is used the provided instructions for it applies.

LSAB also has a solution for securing rotation that can be applied for all types of machines. Following example show how to apply it to the spindle.



Be sure to always take part of and follow instructions and safety regulations supplied from both machine and tool manufacturers.

When cleaning tools equipped with hydro clamping be sure to always leave the pressurizing open to prevent the tool from being deformed from high temperatures in the tool washing machine.

To maintain function and safety of a tool be sure to always use original LSAB spare parts for all types of service and repair.

Below is a selection of the most common spare parts from LSAB.

Tool type	Spare part	Article	Area of use
LSAB Helix	Screw for insert knives	HelixskruvR20	Fastening insert knives
LSAB Helix	Standard Helix insert knife	15152,5-R115C	Insert knife
LSAB Cutter heads, Profile heads	Screw M12	32087	Fastening wedges and knives
LSAB Supreme	Screw M5	TOR1924	Screw for side fixation
LSAB Supreme	Screw M6x20	95217-0	Fastening wedges and knives
LSAB Supreme	Screw M6x25	95218-0	Fastening wedges and knives
Hydro tools	Pressurizing nipple	32088	Pressurizing hydro tools
Hydro tools	Release nipple	32089	Releasing pressure
Hydro tools	LSAB Hydro grease cartridge	K33090	Grease for hydro tools
Miscellaneous	Adjustable torque wrench 5-14Nm	V745500	Safe fastening of knives
Miscellaneous	Bit holder for torque wrench	V745540	Safe fastening of knives

Tools produced for integrated feed must NEVER be used for manual feed.



## The importance of torque

For tools where the cutting edge is fixed with screws or friction it is very important to follow the instructions about torque provided. Torque is calculated to keep the cutting edge in the right place. Not applying the correct torque can cause the cutting edge to move out of position or leave the tool body. To ensure that you apply the correct torque use a torque wrench. The accuracy of the torque wrench should be controlled frequently. LSAB recommends every 6 months.

Following is a table of which torque to be used for LSAB tools.

Always follow instructions and safety regulations provided by machine and tool manufacturers to keep free from incidents and uphold a safe and productive work place. Always use the packaging supplied from LSAB for service and if possible storage. If a tool has or is suspected to have been exposed to undue influence, shows signs of or has visible damages always contact LSAB for consulting before continued use.

Tool type	Screw	Torque
LSAB Helix	HelixskruvR20 M6	7Nm
LSAB Cutter head, flat knives	32087 M12	45Nm
LSAB Cutter head Light	32087 M12	18Nm
LSAB Cutter head, serrated knives	32087 M12	18Nm
LSAB Profil cutter head	32087 M12	18Nm
LSAB Supreme	95217(18)-0 M6	12Nm
Hydro tools	Pressure nipples 32088, 32089	14Nm
Cutter heads flat knives, external supplier	M10	32Nm
Cutter heads flat knives, external supplier	M12	45Nm



# Material specification



## HSS

LSAB:s High Speed Steel is optimized for heat resistancy and excellent running times. It is suitable for soft materials and stays sharp over time.

## Hardyx

LSAB developed cutting material, made by LSAB in Sweden. Hardyx enables substantially longer running times compared to HSS, allows a higher feeding speed through the planer and provides a higher finish on the processed material. Hardyx is suitable for requiring applications with high demands on liability.

Hardyx is specially suitable for machining materials with hard knots. Its high resistancy to cracks keeps it more stable when cutting through the strains that occur in the transition between soft and hard materials. This also applies for foreign objects that may enter the planer such as rocks, clips etc. We often recommend Hardyx when working with tool optimizing projects.

## HW







LSAB has a special grade tungsten carbide called OptiPine. Its a tough and less brittle grade which makes it more resistant to cracks and damage when working materials

with hard knots. Its characteristics provides a very high resistancy and very long running times.

## PCD

PCD (Polycrystalline diamond)  
In applications that demands extremely hard cutting materials we can use PCD. Its characteristics makes it very resistant for wear and provides a long tool life time. PCD is fused under high pressure and very high temperature. Please contact your LSAB sales person for more info.

















# Symbols

 HSS	 GalaxPro	 Soft wood	 Hydro bushing	 Anti vibration
 Hardyx	 Galaxpro+	 Hard wood	 Hydro sleeve	 Integrated feeding
 Carbide	 ProLite	 Hydraulic fastening	 Solid hydro	 Assembled tools
				 Brazed tools



# Let us help you choose

In the table below we have made it easy for you to find the right type of cutting material for your needs.

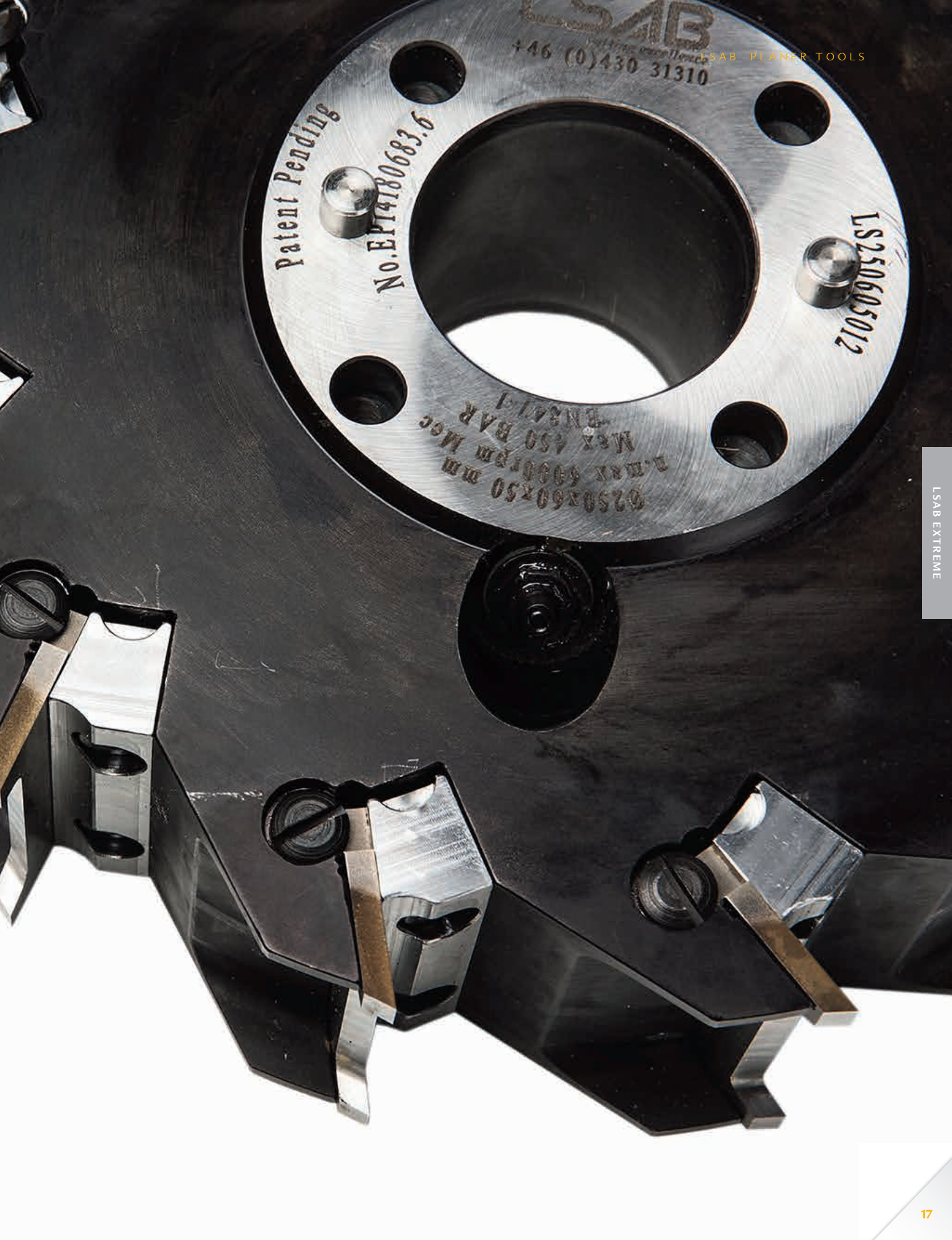
		
		
		
		
		
		

The above is general recommendations.  
Always contact your LSAB representative before starting production.



LSAB  
***extreme***<sup>TM</sup>







# LOGGM

# MASTER

Following up is knowing.  
Loggmaster is our efficient system  
for following up and keeping track of  
your tools, service and production.







# LOGGMMASTER. PRODUCTIVITY AS PRODUCT.

Loggmaster is a web based stand-alone software for tool-handling. It keeps track on logistics, performance and running time, helping you optimize production and get the most out of your tools between service & grinding. The system adds value to your production by

increasing the efficiency and presents data to help you plan ahead. Accessible from computers, tablets or smartphones and simple to use.

Loggmaster – developed by LSAB in Sweden.



LSAB *extreme*™

# SUPREME

## UNIQUE SERIES OF ASSEMBLED TOOLS FOR HIGH DEMANDS.

LSAB Supreme is a unique series of assembled tools with a vast variety of advantages.

The tools are constructed to maintain run out between changes of profile. This provides the opportunity to service the tools without access to the tool body. It allows a fast and cost efficient regrinding service because only the knives need to be sent for service. The tools feature long running times and short set up which altogether provides unsurpassed machine usage. You can easily complete your tool body with new profiles.

LSAB Supreme is the tool series for high performance, surface quality, running time and flexibility.



### Service

LSAB Supreme is very suitable for users that prefer not to handle grinding and service inhouse. We will analyse your application and suggest a suitable tool set-up, including bodies and profiled knives, stock and logistics.

Knives are mounted quick and easy. The system allows a perfect flying circle for knives grinded outside of the tool. Worn knives, ready for service/grinding, are easily shipped to LSAB in a small box.

**Flexibility**

Use LSAB Supreme for full flexibility. New profiled blanks can easily be mounted in the existing body, making it possible to make the investment step by step and in line with changes in your production.

LSAB Supreme is suitable for both slower feeding

speeds, i.e. profiled baseboards or lists, as well as high speed feeding for construction timber. LSAB Supreme can of course also be used for straight planing.

Depending on the machine specifications, it can be possible to add double profiles in the same knife to increase running time and reduce stops even more.

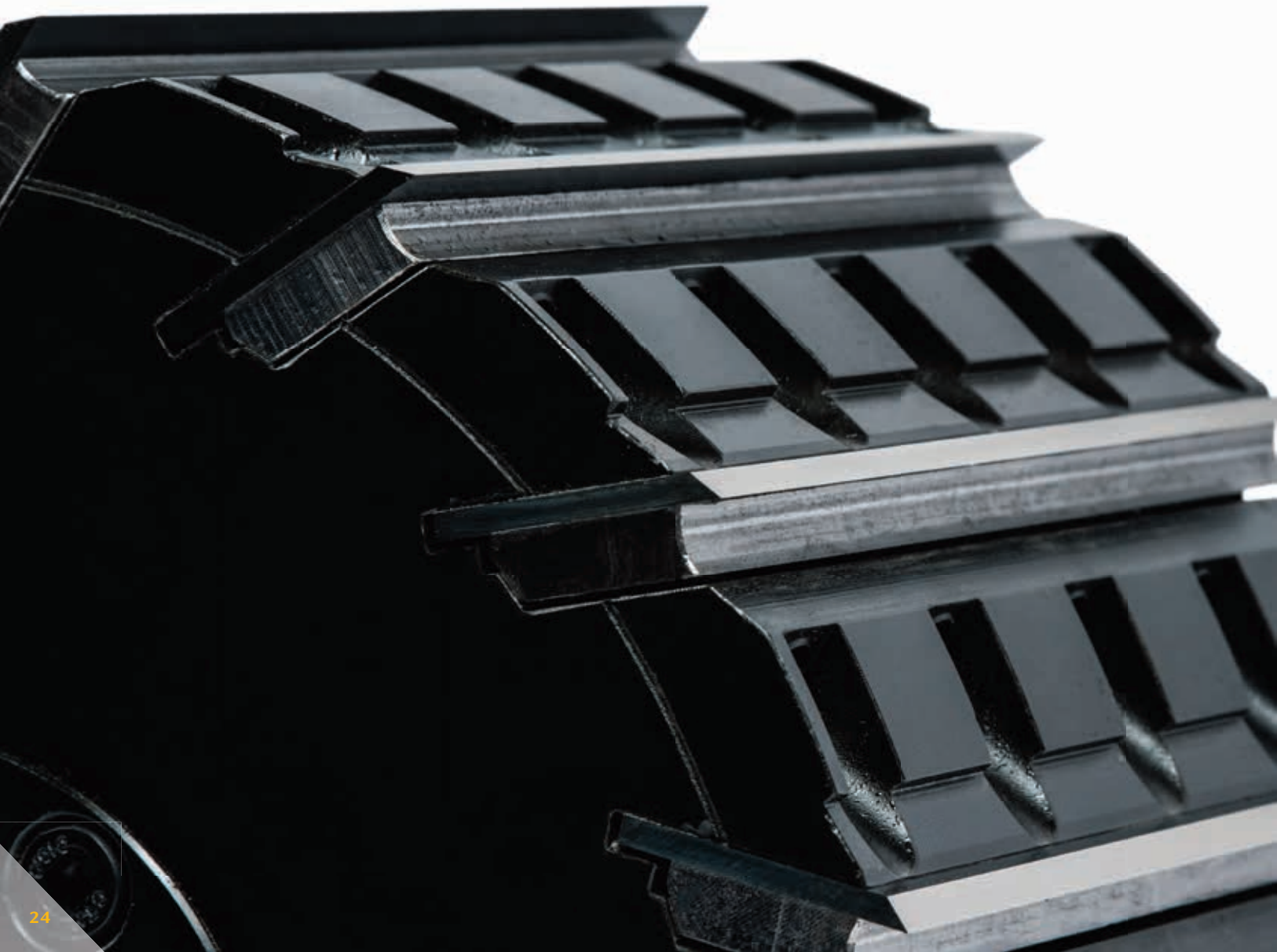
**”Long running times  
and short set up”**



LSAB*extreme*<sup>™</sup>

# NANO

OUR HIGH-PERFORMANCE  
SOLUTION FOR STRAIGHT PLANING





LSAB NANO is our high-performance solution for straight planing. Built-in technology increase surface quality and reduces stress in the machine, making the tool unique. LSAB NANO is a tool for demanding applications with the highest demands on surface quality. The secret is a technology that reduces, or eliminates vibrations coming from the machine and ends in the tool. This gives a perfectly straight surface without cutter marks and with longer running times. It also relieves any tensions between the spindle and the tool and it

reduces stress on the bearings and side supports. Combine the tool with LSAB Galax Pro. This will give you extreme running times and it allows a faster feeding through the machine together with the best surface quality.

Each tool is designed to fit in the existing equipment, meaning it's mounted, grinded and serviced just as any regular cutter head.

LSAB NANO – Developed and produced by LSAB in Sweden.

**”Developed and produced  
by LSAB in Sweden”**



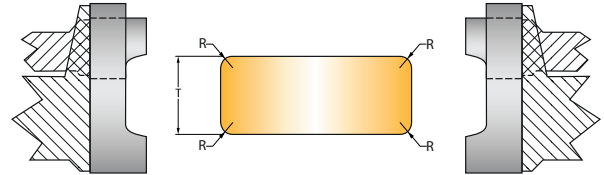
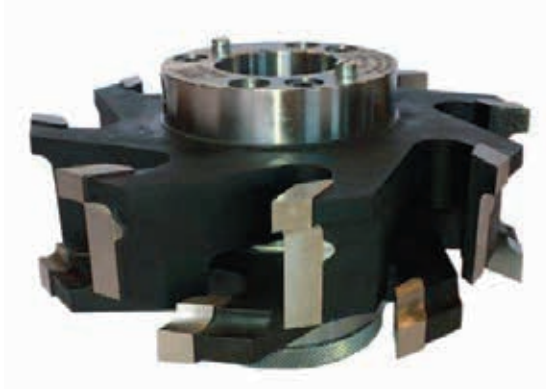


LSAB  
**excellent™**

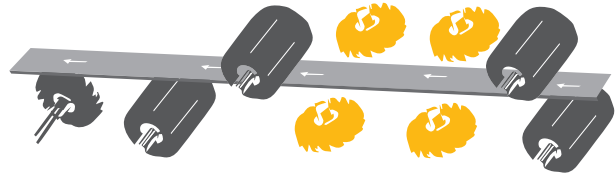




# ADJUSTABLE RADIUS CUTTER



Flexible tool suitable for small batch production and varying dimensions. T is adjusted with spacer rings. Setting rings and external rings are additional.



Profile no. RH	Profile no. LH	D	Z	d	Art.no. RH	Art.no.LH
23981	23982	180	6	60	E01.10001	E01.10002
23981	23982	200	8	60	E01.10003	E01.10004
23981	23982	220	10	60	E01.10005	E01.10006
23981	23982	250	12	60	E01.10007	E01.10008
23981	23982	280	16	70	E01.10009	E01.10010

## DIMENSION TABLE

T mm	R mm	Profile no. LH	Profile no. RH
19-48	4	23982	23981

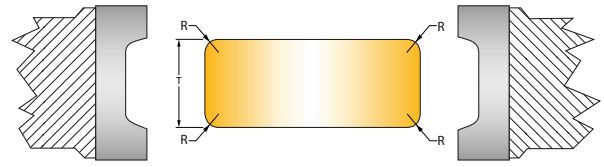
## OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-115
Hydro sleeve	B50/60-115
Hydro sleeve	B60/70-140

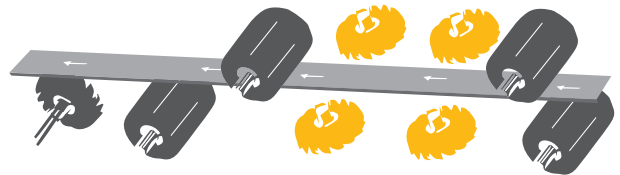
## ACCESSORIES

Accessories	Art.no.
Spacer ring set	RP9060-29

# DOUBLE RADIUS CUTTER



Double radius cutter for volume production. Also available with multiple profiles for short set up times when changing profile.



Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20090	180	6	45	E02.10011
20090	180	6	50	E02.10012
20090	180	6	60	E02.10013**
20090	200	8	45	E02.10014
20090	200	8	50	E02.10015
20090	200	8	60	E02.10016**
20090	220	10	45	E02.10017
20090	220	10	50	E02.10018
20090	220	10	60	E02.10019**
20090	250	12	45	E02.10020
20090	250	12	50	E02.10021
20090	250	12	60	E02.10022
20090	250	16	45	E02.10023
20090	250	16	50	E02.10024
20090	250	16	60	E02.10780
20090	280	16	60	E02.10025*

Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20091	180	6	45	E02.10026
20091	180	6	50	E02.10027
20091	180	6	60	E02.10028**
20091	200	8	45	E02.10029
20091	200	8	50	E02.10030
20091	200	8	60	E02.10031**
20091	220	10	45	E02.10032
20091	220	10	50	E02.10033
20091	220	10	60	E02.10034**
20091	250	12	45	E02.10035
20091	250	12	50	E02.10036
20091	250	12	60	E02.10037
20091	250	16	45	E02.10038
20091	250	16	50	E02.10039
20091	250	16	60	E02.10781
20091	280	16	60	E02.10040*

\*Only available with SolidHydro \*\*Not available with SolidHydro

CONT. ON PAGE 30



# DOUBLE RADIUS CUTTER CONT. FROM PAGE 29

Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20092	180	6	45	E02.10041
20092	180	6	50	E02.10042
20092	180	6	60	E02.10043**
20092	200	8	45	E02.10044
20092	200	8	50	E02.10045
20092	200	8	60	E02.10046**
20092	220	10	45	E02.10047
20092	220	10	50	E02.10048
20092	220	10	60	E02.10049**
20092	250	12	45	E02.10050
20092	250	12	50	E02.10051
20092	250	12	60	E02.10052
20092	250	16	45	E02.10053
20092	250	16	50	E02.10054
20092	250	16	60	E02.10782
20092	280	16	60	E02.10055*
20093	180	6	45	E02.10056
20093	180	6	50	E02.10057
20093	180	6	60	E02.10058**
20093	200	8	45	E02.10059
20093	200	8	50	E02.10060
20093	200	8	60	E02.10061**
20093	220	10	45	E02.10062
20093	220	10	50	E02.10063
20093	220	10	60	E02.10064**
20093	250	12	45	E02.10065
20093	250	12	50	E02.10066
20093	250	12	60	E02.10067
20093	250	16	45	E02.10068
20093	250	16	50	E02.10069
20093	250	16	60	E02.10783
20093	280	16	60	E02.10070*

Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20095	180	6	45	E02.10071
20095	180	6	50	E02.10072
20095	180	6	60	E02.10073**
20095	200	8	45	E02.10074
20095	200	8	50	E02.10075
20095	200	8	60	E02.10076**
20095	220	10	45	E02.10077
20095	220	10	50	E02.10078
20095	220	10	60	E02.10079**
20095	220	12	45	E02.10080
20095	220	12	50	E02.10081
20095	220	12	60	E02.10082
20095	250	12	45	E02.10083
20095	250	12	50	E02.10084
20095	250	12	60	E02.10085
20095	250	16	45	E02.10086
20095	250	16	50	E02.10087
20095	250	16	60	E02.10784
20095	280	16	60	E02.10088*

\*Only available with SolidHydro \*\*Not available with SolidHydro

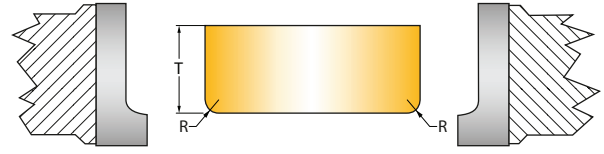
## DIMENSION TABLE

T mm	R mm	Profile no. LH	Profile no. RH
22	4	20090	20090
28	4	20091	20091
38	4	20092	20092
45	4	20093	20093
70	4	20095	20095

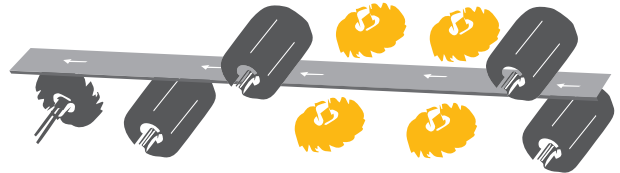
## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	A45/60-75
Hydro sleeve	A50/60-75

# RADIUS CUTTER



Radius cutter for volume production. Suitable for machines with multiple side spindle pairs for fast adjustment of product dimension.



Profile no. RH	Profile no. LH	D	Z	d	Art.no. RH	Art.no LH
22364	22363	180	6	45	E04.10167	E04.10168
22364	22363	180	6	50	E04.10169	E04.10170
22364	22363	180	6	60	E04.10171**	E04.10172**
22364	22363	200	8	45	E04.10173	E04.10174
22364	22363	200	8	50	E04.10175	E04.10176
22364	22363	200	8	60	E04.10177**	E04.10178**
22364	22363	220	10	45	E04.10179	E04.10180
22364	22363	220	10	50	E04.10181	E04.10182
22364	22363	220	10	60	E04.10183**	E04.10184**
22364	22363	250	12	45	E04.10185	E04.10186
22364	22363	250	12	50	E04.10187	E04.10188
22364	22363	250	12	60	E04.10189	E04.10190
22364	22363	250	16	45	E04.10191	E04.10192
22364	22363	250	16	50	E04.10193	E04.10194
22364	22363	250	16	60	E04.10785	E04.10786
22364	22363	280	16	60	E04.10195*	E04.10196*

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE

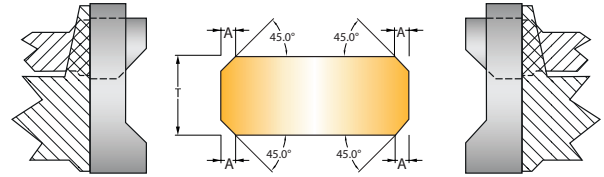
T mm	R mm	Profile no. LH	Profile no. RH
45	4	22363	22364

## OPTIONS

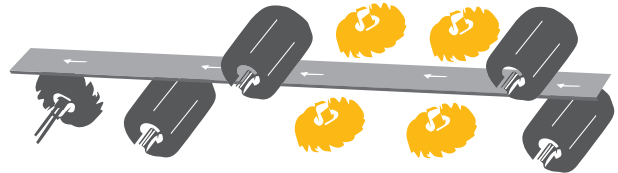
Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55



# ADJUSTABLE CHAMFER CUTTER



Flexible tool suitable for small batch production and varying dimensions. T is adjusted with spacer rings. Setting rings and external rings are additional.



Profile no. RH	Profile no. LH	D	Z	d	Art.no. RH	Art.no. LH
33982	33981	180	6	60	E06.10227	E06.10228
33982	33981	200	8	60	E06.10229	E06.10230
33982	33981	220	10	60	E06.10231	E06.10232
33982	33981	250	12	60	E06.10233	E06.10234
33982	33981	280	16	70	E06.10235	E06.10236

## DIMENSION TABLE

T	A
mm	mm
19-48	Max 5

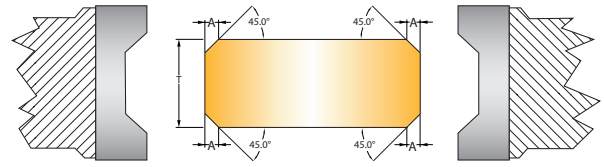
## OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-115
Hydro sleeve	B50/60-115
Hydro sleeve	B60/70-140

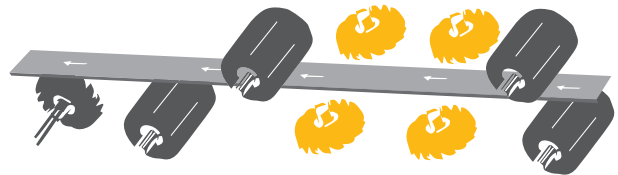
## ACCESSORIES

Accessories	Art.no.
Spacer ring set	RP9060-29
Spacer ring set	RP10470-29

# DOUBLE CHAMFER CUTTER



Double chamfer cutter for volume production. Also available with multiple profiles for short set up times when changing profile.



Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20080	180	6	45	E03.10089
20080	180	6	50	E03.10090
20080	180	6	60	E03.10091**
20080	200	8	45	E03.10092
20080	200	8	50	E03.10093
20080	200	8	60	E03.10094**
20080	220	10	45	E03.10095
20080	220	10	50	E03.10096
20080	220	10	60	E03.10097**
20080	250	12	45	E03.10098
20080	250	12	50	E03.10099
20080	250	12	60	E03.10100
20080	250	16	45	E03.10101
20080	250	16	50	E03.10102
20080	250	16	60	E03.10787
20080	280	16	60	E03.10103*
20081	180	6	45	E03.10104
20081	180	6	50	E03.10105
20081	180	6	60	E03.10106**
20081	200	8	45	E03.10107
20081	200	8	50	E03.10108
20081	200	8	60	E03.10109**

Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20081	220	10	45	E03.10110
20081	220	10	50	E03.10111
20081	220	10	60	E03.10112**
20081	250	12	45	E03.10113
20081	250	12	50	E03.10114
20081	250	12	60	E03.10115
20081	250	16	45	E03.10116
20081	250	16	50	E03.10117
20081	250	16	60	E03.10788
20081	280	16	60	E03.10118*

\*Only available with SolidHydro \*\*Not available with SolidHydro

CONT. ON PAGE 34

# DOUBLE CHAMFER CUTTER CONT. FROM PAGE 33

Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20082	180	6	45	E03.10119
20082	180	6	50	E03.10120
20082	180	6	60	E03.10121**
20082	200	8	45	E03.10122
20082	200	8	50	E03.10123
20082	200	8	60	E03.10124**
20082	220	10	45	E03.10125
20082	220	10	50	E03.10126
20082	220	10	60	E03.10127**
20082	250	12	45	E03.10128
20082	250	12	50	E03.10129
20082	250	12	60	E03.10130
20082	250	16	45	E03.10131
20082	250	16	50	E03.10132
20082	250	16	60	E03.10789
20082	280	16	60	E03.10133*
20083	180	6	45	E03.10134
20083	180	6	50	E03.10135
20083	180	6	60	E03.10136**
20083	200	8	45	E03.10137
20083	200	8	50	E03.10138
20083	200	8	60	E03.10139**
20083	220	10	45	E03.10140
20083	220	10	50	E03.10141
20083	220	10	60	E03.10142**
20083	250	12	45	E03.10143
20083	250	12	50	E03.10144
20083	250	12	60	E03.10145
20083	250	16	45	E03.10146
20083	250	16	50	E03.10147
20083	250	16	60	E03.10790
20083	280	16	60	E03.10148*

Profile no. RH/LH	D	Z	d	Art.no. RH/LH
20084	180	6	45	E03.10149
20084	180	6	50	E03.10150
20084	180	6	60	E03.10151**
20084	200	8	45	E03.10152
20084	200	8	50	E03.10153
20084	200	8	60	E03.10154**
20084	220	10	45	E03.10155
20084	220	10	50	E03.10156
20084	220	10	60	E03.10157**
20084	220	12	45	E03.10158
20084	220	12	50	E03.10159
20084	220	12	60	E03.10160
20084	250	12	45	E03.10161
20084	250	12	50	E03.10162
20084	250	12	60	E03.10163
20084	250	16	45	E03.10164
20084	250	16	50	E03.10165
20084	250	16	60	E03.10791
20084	280	16	60	E03.10166*

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE

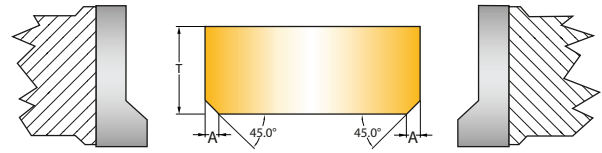
T mm	A mm	Profile no. LH	Profile no. RH
22	4	20080	20080
28	4	20081	20081
38	4	20082	20082
45	4	20083	20083
70	4	20084	20084

## OPTIONS

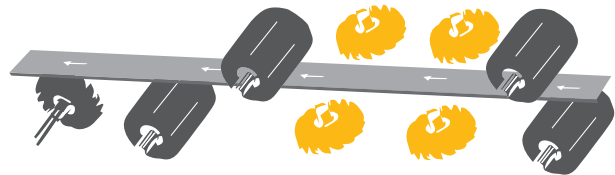
Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	A45/60-75
Hydro sleeve	A50/60-75



# CHAMFER CUTTER



Chamfer cutter for volume production. Suitable for machines with multiple side spindle pairs for fast adjustment of product dimension.



Profile no. RH	Profile no. LH	D	Z	d	Art.no. RH	Art.no LH
20075	20076	180	6	45	E05.10197	E05.10198
20075	20076	180	6	50	E05.10199	E05.10200
20075	20076	180	6	60	E05.10201**	E05.10202**
20075	20076	200	8	45	E05.10203	E05.10204
20075	20076	200	8	50	E05.10205	E05.10206
20075	20076	200	8	60	E05.10207**	E05.10208**
20075	20076	220	10	45	E05.10209	E05.10210
20075	20076	220	10	50	E05.10211	E05.10212
20075	20076	220	10	60	E05.10213**	E05.10214**
20075	20076	250	12	45	E05.10215	E05.10216
20075	20076	250	12	50	E05.10217	E05.10218
20075	20076	250	12	60	E05.10219	E05.10220
20075	20076	250	16	45	E05.10221	E05.10222
20075	20076	250	16	50	E05.10223	E05.10224
20075	20076	250	16	60	E05.10792	E05.10793
20075	20076	280	16	60	E05.10225*	E05.10226*

\*Only available with SolidHydro \*\*Not available with SolidHydro

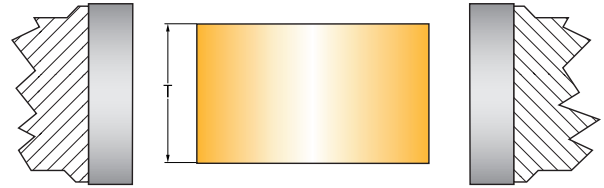
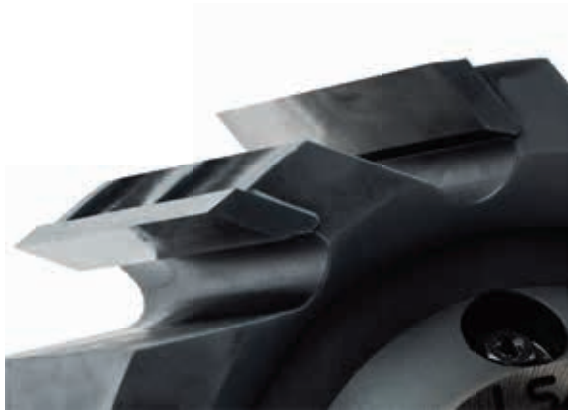
## DIMENSION TABLE

T mm	A mm	Profile no. LH	Profile no. RH
45	Max 5	20076	20075

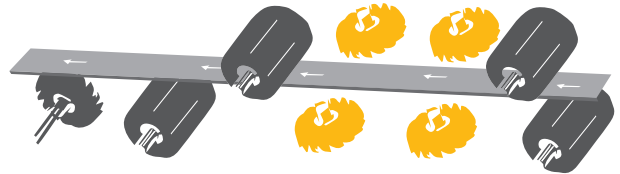
## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55

# STRAIGHT EDGE CUTTER



Straight tool for volume production.



Profile no. RH/LH	D	Z	d	Art.no. RH/LH
23	180	6	45	E07.10237
23	180	6	50	E07.10238
23	180	6	60	E07.10239**
23	200	8	45	E07.10240
23	200	8	50	E07.10241
23	200	8	60	E07.10242**
23	220	10	45	E07.10243
23	220	10	50	E07.10244
23	220	10	60	E07.10245**
23	250	12	45	E07.10246
23	250	12	50	E07.10247
23	250	12	60	E07.10248
23	250	16	50	E07.10249
23	250	16	60	E07.10794
23	280	16	60	E07.10250*
26	180	6	45	E07.10251
26	180	6	50	E07.10252
26	180	6	60	E07.10253**
26	200	8	45	E07.10254
26	200	8	50	E07.10255
26	200	8	60	E07.10256**

Profile no. RH/LH	D	Z	d	Art.no. RH/LH
26	220	10	45	E07.10257
26	220	10	50	E07.10258
26	220	10	60	E07.10259**
26	250	12	45	E07.10260
26	250	12	50	E07.10261
26	250	12	60	E07.10262
26	250	16	50	E07.10263
26	250	16	60	E07.10795
26	280	16	60	E07.10264*

## DIMENSION TABLE

T mm	Profile no. LH	Profile no. RH
45	23	23
70	26	26

## OPTIONS

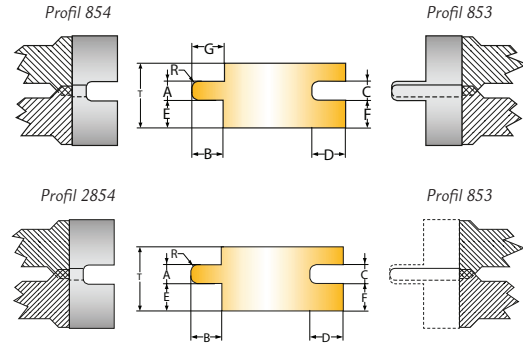
Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	A45/60-75
Hydro sleeve	A50/60-75

\*Only available with SolidHydro \*\*Not available with SolidHydro

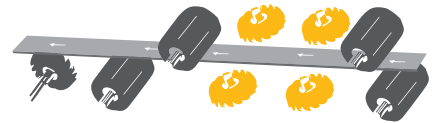




# TONGUE, GROOVE AND PANELS



Tools for panel production. Also produced for specific measurements and custom profiles. External rings are additional.



## TONGUE AND GROOVE

Profile no. Tongue Free cut	Profile no. Groove	Profile no. Tongue Closed	D	Z	d	Art.no. Tongue Free cut	Art.no. Groove	Art.no. Tongue Closed
854	853	2854	180	6	60	E10.10291	E10.10292	E10.10319
854	853	2854	200	8	60	E10.10293	E10.10294	E10.10321
854	853	2854	220	10	60	E10.10295	E10.10296	E10.10323
854	853	2854	250	12	60	E10.10297	E10.10298	E10.10325
854	853	2854	250	16	60	E10.10301	E10.10302	E10.10329
854	853	2854	280	16	70/100	E10.10303	E10.10304	E10.10331
858	857	2858	180	6	60	E10.10305	E10.10306	E10.10333
858	857	2858	200	8	60	E10.10307	E10.10308	E10.10335
858	857	2858	220	10	60	E10.10309	E10.10310	E10.10337
858	857	2858	250	12	60	E10.10311	E10.10312	E10.10339
858	857	2858	250	16	60	E10.10315	E10.10316	E10.10343
858	857	2858	280	16	70/100	E10.10317	E10.10318	E10.10345

## DIMENSION TABLE

T mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	R mm	Profile no. Tongue	Profile no. Groove	Profile no. Tongue Free cut
13-16-22	4,5-6	10	4,9-6,4	11	4,5-7-9	4,3-6,8-8,8	11	1,5	854	853	-
28-34	8	10	8,4	11	11-14	10,8-13,8	11	1,5	858	857	-
13-16-22	4,5-6	10	4,9-6,4	11	4,5-7-9	4,3-6,8-8,8	-	1,5	-	-	2854
28-34	8	10	8,4	11	11-14	10,8-13,8	-	1,5	-	-	2858

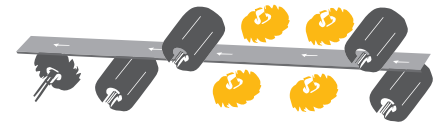
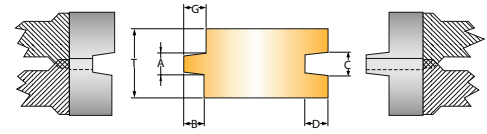
## OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75
Hydro sleeve	B60/70-75

Accessories	Art.no.
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75

## CONICAL TONGUE AND GROOVE WITH FREE CUT

Profile no. LH	Profile no. RH	D	Z	d	Art.no. LH	Art.no RH
134	33	180	6	60	E11.10432	E11.10433
134	33	200	8	60	E11.10434	E11.10435
134	33	220	10	60	E11.10436	E11.10437
134	33	250	12	60	E11.10438	E11.10439
134	33	250	16	60	E11.10442	E11.10443
134	33	280	16	70/100	E11.10444	E11.10445
138	37	180	6	60	E11.10446	E11.10447
138	37	200	8	60	E11.10448	E11.10449
138	37	220	10	60	E11.10450	E11.10451
138	37	250	12	60	E11.10452	E11.10453
138	37	250	16	60	E11.10456	E11.10457
138	37	280	16	70/100	E11.10458	E11.10459



### DIMENSION TABLE

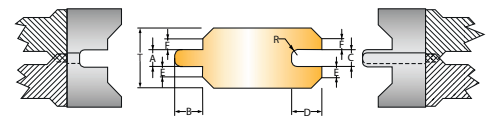
T mm	A mm	B mm	G mm	C mm	D mm	Profile no. LH	Profile no. RH
16-19-22	5,4-6,9	7	8	5,8-7,3	8	134	33
28	8,6	8	9	9,3	9	138	37

### OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75
Hydro sleeve	B60/70-75
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75

## TONGUE AND GROOVE WITH DOUBLE CHAMFER

Profile no. LH	Profile no RH	D	Z	d	Art.no. LH	Art.no RH
386	385	180	6	60	E12.10508	E12.10509
386	385	200	8	60	E12.10510	E12.10511
386	385	220	10	60	E12.10512	E12.10513
386	385	250	12	60	E12.10514	E12.10515
386	385	250	16	60	E12.10518	E12.10519
386	385	280	16	70/100	E12.10520	E12.10521
388	387	180	6	60	E12.10522	E12.10523
388	387	200	8	60	E12.10524	E12.10525
388	387	220	10	60	E12.10526	E12.10527
388	387	250	12	60	E12.10528	E12.10529
388	387	250	16	60	E12.10532	E12.10533
388	387	280	16	70/100	E12.10534	E12.10535



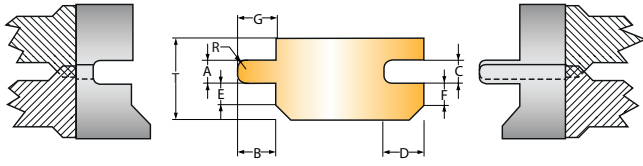
### DIMENSION TABLE

T mm	A mm	B mm	C mm	D mm	E mm	F mm	R mm	Profile no. LH	Profile no. RH
19	4,8	7	4,9	8	4	3,95	1,5	386	385
22	6,3	7	6,4	8	4,5	4,45	1,5	388	387

### OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75
Hydro sleeve	B60/70-75
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75

# TONGUE AND GROOVE WITH CHAMFER



Profile no. Groove	Profile no. tongue Closed	D	Z	d	Art.no. LH	Art.no. RH
100	99	180	6	60	E13.10536	E13.10537
100	99	200	8	60	E13.10538	E13.10539
100	99	220	10	60	E13.10540	E13.10296
100	99	250	12	60	E13.10542	E13.10543
100	99	250	16	60	E13.10546	E13.10547
100	99	280	16	70/100	E13.10548	E13.10549
23214	23213	180	6	60	E13.10550	E13.10551
23214	23213	200	8	60	E13.10552	E13.10553
23214	23213	220	10	60	E13.10554	E13.10555
23214	23213	250	12	60	E13.10556	E13.10557
23214	23213	250	16	60	E13.10560	E13.10561
23214	23213	280	16	70/100	E13.10562	E13.10563
104	103	180	6	60	E13.10564	E13.10565
104	103	200	8	60	E13.10566	E13.10567
104	103	220	10	60	E13.10568	E13.10569
104	103	250	12	60	E13.10570	E13.10571
104	103	250	16	60	E13.10574	E13.10575
104	103	280	16	70/100	E13.10576	E13.10577

## DIMENSION TABLE

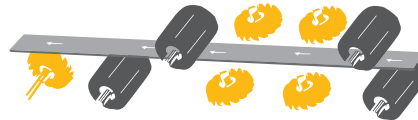
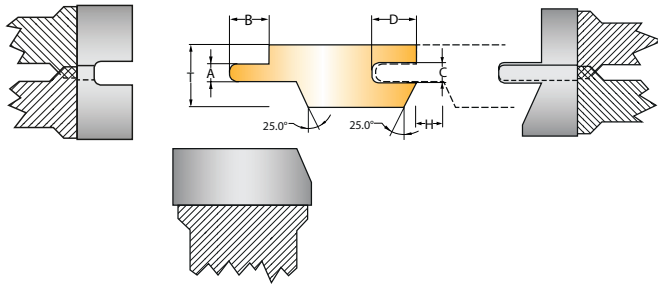
T mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	R mm	Profile no. LH	Profile no. RH
13	4	6,5	4,4	7,5	2	1,8	7,5	1,5	100	99
16	4,5	10	4,9	11	2,5	2,3	11	1,5	23214	23213
19	4,5	7	4,9	8	4	3,8	8	1,5	104	103

## OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75
Hydro sleeve	B60/70-75
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75



# PANEL WITH 25° CHAMFER



Profile no. LH	Profile no. RH	Profile no. BS	D	Z	d	Art.no. LH	Art.no. RH	Art.no. BS
		21396	180	6	45			E14.10617
		21396	180	6	50			E14.10618
2854	20863	21396	180	6	60	E10.10319	E14.10611	E14.10619**
		21396	200	8	45			E14.10620
		21396	200	8	50			E14.10621
2854	20863	21396	200	8	60	E10.10321	E14.10612	E14.10622**
		21396	220	10	45			E14.10623
		21396	220	10	50			E14.10624
2854	20863	21396	220	10	60	E10.10323	E14.10613	E14.10625**
		21396	250	12	45			E14.10626
		21396	250	12	50			E14.10627
2854	20863	21396	250	12	60	E10.10325	E14.10614	E14.10628
		21396	250	16	45			E14.10629
		21396	250	16	50			E14.10630
2854	20863	21396	250	16	60	E10.10329	E14.10615	E14.10796
		21396	280	16	60			E14.10631*
2854	20863		280	16	70/100	E10.10331	E14.10616	

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE

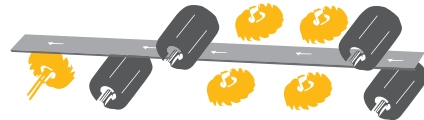
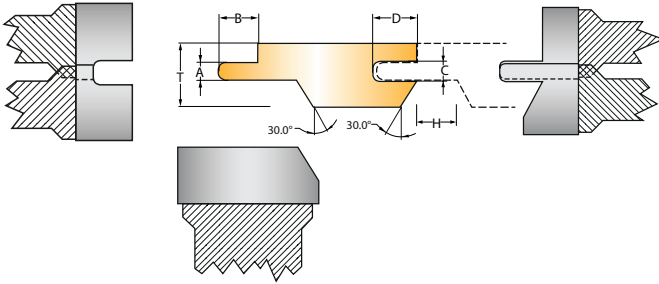
T mm	A mm	B mm	C mm	D mm	H mm	Profile no. LH	Profile no. RH	Profile no. BS
16-16-22	4,5-6	10	4,9-6,4	11	Adjustable	2854	20863	21396

## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75

Accessories	Art.no.
Hydro sleeve	B60/70-75
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75

## PANEL WITH 30° CHAMFER



Profile no. LH	Profile no. RH	Profile no. BS	D	Z	d	Art.no. LH	Art.no. RH	Art.no. BS
		23121	180	6	45			E15.10639
		23121	180	6	50			E15.10640
2854	23301	23121	180	6	60	E10.10319	E15.10633	E15.10641**
		23121	200	8	45			E15.10642
		23121	200	8	50			E15.10643
2854	23301	23121	200	8	60	E10.10321	E15.10634	E15.10644**
		23121	220	10	45			E15.10645
		23121	220	10	50			E15.10646
2854	23301	23121	220	10	60	E10.10323	E15.10635	E15.10647**
		23121	250	12	45			E15.10648
		23121	250	12	50			E15.10649
2854	23301	23121	250	12	60	E10.10325	E15.10636	E15.10650
		23121	250	16	45			E15.10651
		23121	250	16	50			E15.10652
2854	23301	23121	250	16	60	E10.10329	E15.10637	E15.10797
		23121	280	16	60			E15.10653*
2854	23301		280	16	70/100	E10.10331	E15.10638	

\*Only available with SolidHydro \*\*Not available with SolidHydro

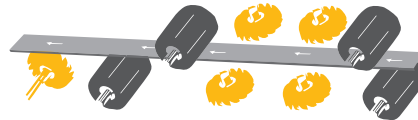
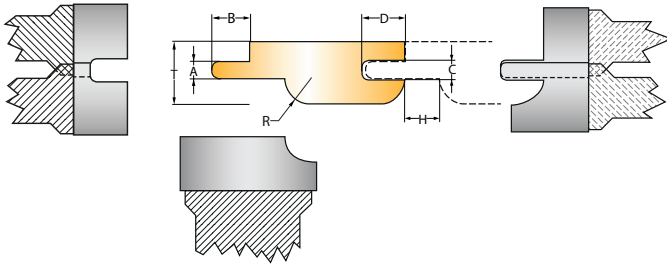
### DIMENSION TABLE

T mm	A mm	B mm	C mm	D mm	H mm	Profile no. LH	Profile no. RH	Profile no. BS
12,5-14-19,5-22,5	4-6	10	4,4-6,5	11	Adjustable	2854	23301	23121

### OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75
Hydro sleeve	B60/70-75
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75

# PANEL WITH RADIUS CORNER



Profile no. LH	Profile no. RH	Profile no. BS	D	Z	d	Art.no. LH	Art.no. RH	Art.no. BS
		22527	180	6	45			E16.10666
		22527	180	6	50			E16.10667
2854	25481	22527	180	6	60	E10.10319	E16.10659	E16.10668**
		22527	200	8	45			E16.10669
		22527	200	8	50			E16.10670
2854	25481	22527	200	8	60	E10.10321	E16.10660	E16.10671**
		22527	220	10	45			E16.10672
		22527	220	10	50			E16.10673
2854	25481	22527	220	10	60	E10.10323	E16.10661	E16.10674**
		22527	250	12	45			E16.10675
		22527	250	12	50			E16.10676
2854	25481	22527	250	12	60	E10.10325	E16.10662	E16.10677
		22527	250	16	45			E16.10678
		22527	250	16	50			E16.10679
2854	25481	22527	250	16	60	E10.10329	E16.10664	E16.10798
		22527	280	16	60			E16.10680*
2854	25481		280	16	70/100	E10.10331	E16.10665	

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE

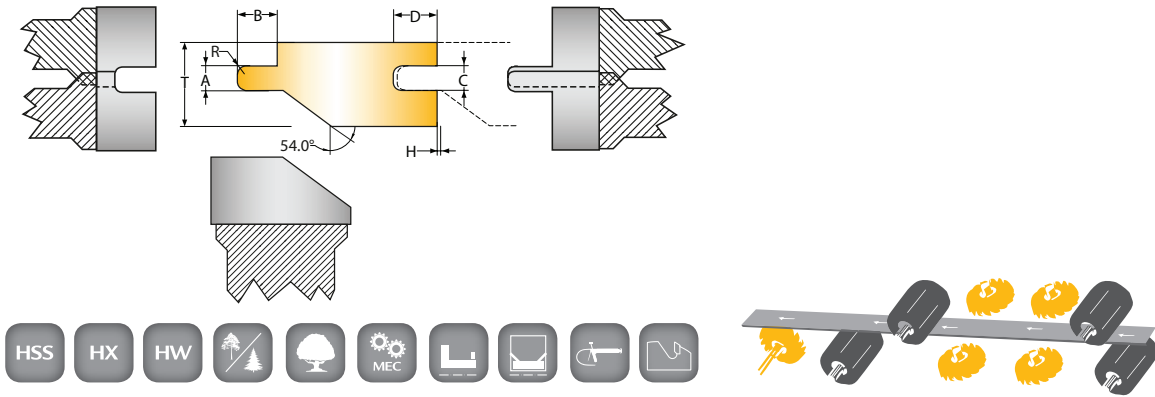
T mm	A mm	B mm	C mm	D mm	R mm	H mm	Profile no. LH	Profile no. RH	Profile no. BS
16	4,5	10	4,9	11	6,5	Adjustable	2854	25481	22527

## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75
Hydro sleeve	B60/70-75
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75



# PANEL WITH SINGLE CHAMFER



Profile no. LH	Profile no. RH	Profile no. BS	D	Z	d	Art.no. LH	Art.no. RH	Art.no. BS
		34433	180	6	45			E17.10347
		34433	180	6	50			E17.10348
2854	853	34433	180	6	60	E10.10319	E10.10292	E17.10349**
		34433	200	8	45			E17.10350
		34433	200	8	50			E17.10351
2854	853	34433	200	8	60	E10.10321	E10.10294	E17.10352**
		34433	220	10	45			E17.10353
		34433	220	10	50			E17.10354
2854	853	34433	220	10	60	E10.10323	E10.10296	E17.10355**
		34433	250	12	45			E17.10356
		34433	250	12	50			E17.10357
2854	853	34433	250	12	60	E10.10325	E10.10298	E17.10358
		34433	250	16	45			E17.10359
		34433	250	16	50			E17.10360
2854	853	34433	250	16	60	E10.10329	E10.10302	E17.10799
		34433	280	16	60			E17.10361*
2854	853		280	16	70/100	E10.10331	E10.10304	

\*Only available with SolidHydro \*\*Not available with SolidHydro

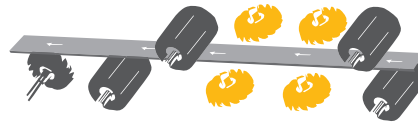
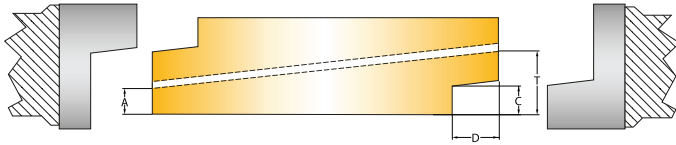
## DIMENSION TABLE

T mm	A mm	B mm	C mm	D mm	R mm	H mm	Profile no. LH	Profile no. RH	Profile no. BS
16-22	4,5-6	10	4,9-6,4	11	1,5	Adjustable	2854	853	34433

## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	B45/60-75
Hydro sleeve	B50/60-75
Hydro sleeve	B60/70-75
Hydro sleeve	BL45/100-75
Hydro sleeve	BL50/100-75

# WEATHERBOARDING



Profile no. LH/RH	D	Z	d	Art.no. LH/RH
20687	180	6	45	E18.10362
20687	180	6	50	E18.10363
20687	180	6	60	E18.10364**
20687	200	8	45	E18.10365
20687	200	8	50	E18.10366
20687	200	8	60	E18.10367**
20687	220	10	45	E18.10368
20687	220	10	50	E18.10369
20687	220	10	60	E18.10370**
20687	250	12	45	E18.10371
20687	250	12	50	E18.10372
20687	250	12	60	E18.10299
20687	250	16	45	E18.10373
20687	250	16	50	E18.10374
20687	250	16	60	E18.10800
20687	280	16	60	E18.10375*

Profile no. LH/RH	D	Z	d	Art.no. LH/RH
21365	180	6	45	E18.10376
21365	180	6	50	E18.10377
21365	180	6	60	E18.10378**
21365	200	8	45	E18.10379
21365	200	8	50	E18.10380
21365	200	8	60	E18.10381**
21365	220	10	45	E18.10382
21365	220	10	50	E18.10383
21365	220	10	60	E18.10384**
21365	250	12	45	E18.10385
21365	250	12	50	E18.10386
21365	250	12	60	E18.10300
21365	250	16	45	E18.10387
21365	250	16	50	E18.10388
21365	250	16	60	E18.10801
21365	280	16	60	E18.10389*

\*Only available with SolidHydro \*\*Not available with SolidHydro

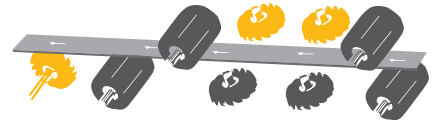
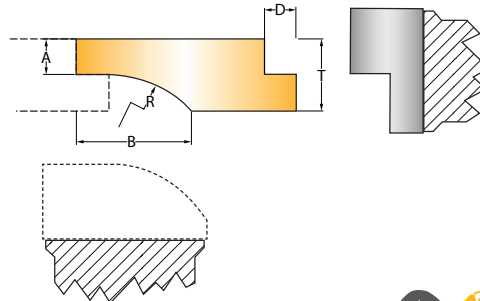
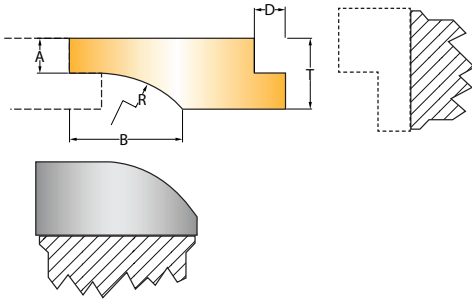
## DIMENSION TABLE

T mm	A mm	C mm	D mm	Profile no. LH	Profile no. RH
22	9	10	16	20687	20687
34	14	17	15,5	21365	21365

## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55

# SHIPLAP



Profile no. BS	D	Z	d	Art.no. BS
12275	180	6	45	E19.10390
12275	180	6	50	E19.10391
12275	180	6	60	E19.10392**
12275	200	8	45	E19.10393
12275	200	8	50	E19.10394
12275	200	8	60	E19.10395**
12275	220	10	45	E19.10396
12275	220	10	50	E19.10397
12275	220	10	60	E19.10398**
12275	250	12	45	E19.10399
12275	250	12	50	E19.10400
12275	250	12	60	E19.10313
12275	250	16	45	E19.10401
12275	250	16	50	E19.10402
12275	250	16	60	E19.10802
12275	280	16	60	E19.10403*

Profile no. RH	D	Z	d	Art.no. RH
23789	180	6	45	E19.10404
23789	180	6	50	E19.10405
23789	180	6	60	E19.10406**
23789	200	8	45	E19.10407
23789	200	8	50	E19.10408
23789	200	8	60	E19.10409**
23789	220	10	45	E19.10410
23789	220	10	50	E19.10411
23789	220	10	60	E19.10412**
23789	250	12	45	E19.10413
23789	250	12	50	E19.10414
23789	250	12	60	E19.10314
23789	250	16	45	E19.10415
23789	250	16	50	E19.10416
23789	250	16	60	E19.10803
23789	280	16	60	E19.10417*

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE

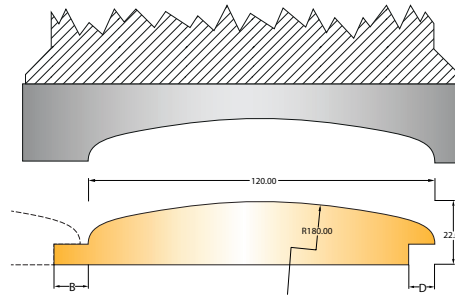
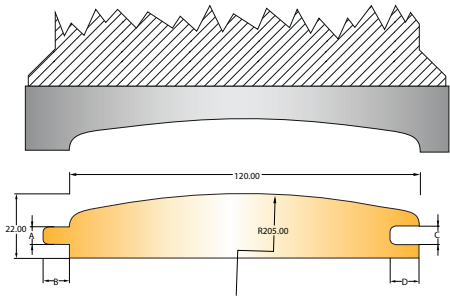
T mm	A mm	B mm	D mm	H mm	R mm	Profile no. BS	Profile no. RH
22	11	35	10	10	35	12275	23789

## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55



# TG WOOD CABIN PANELS



Profilnr. TS	D	Z	d	Art.nr. TS
20007	180	6	45	E20.10578
20007	180	6	50	E20.10579
20007	180	6	60	E20.10580**
20007	200	8	45	E20.10581
20007	200	8	50	E20.10582
20007	200	8	60	E20.10583**
20007	220	10	45	E20.10584
20007	220	10	50	E20.10585
20007	220	10	60	E20.10586**
20007	250	12	45	E20.10587
20007	250	12	50	E20.10588
20007	250	12	60	E20.10589
20007	250	16	45	E20.10590
20007	250	16	50	E20.10591
20007	250	16	60	E20.10804
20007	280	16	60	E20.10592*

Profilnr. TS	D	Z	d	Art.nr. TS
21508	180	6	45	E20.10418
21508	180	6	50	E20.10419
21508	180	6	60	E20.10420**
21508	200	8	45	E20.10421
21508	200	8	50	E20.10422
21508	200	8	60	E20.10423**
21508	220	10	45	E20.10424
21508	220	10	50	E20.10425
21508	220	10	60	E20.10426**
21508	250	12	45	E20.10427
21508	250	12	50	E20.10428
21508	250	12	60	E20.10340
21508	250	16	45	E20.10429
21508	250	16	50	E20.10430
21508	250	16	60	E20.10805
21508	280	16	60	E20.10431*

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE

A mm	B mm	C mm	D mm	Profile no. TS
6	10	6,4	11	20007

## DIMENSION TABLE

B mm	D mm	Profile no. TS
12	10	21508

## OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-140
Hydro sleeve	B50/60-140

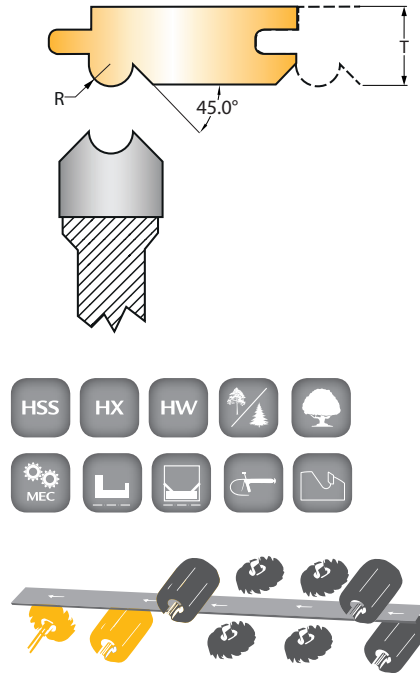
## OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-140
Hydro sleeve	B50/60-140

## PROFILED CLADDING

Profilnr.	D	Z	d	Art.nr.
24004	180	6	45	E21.10681
24004	180	6	50	E21.10682
24004	180	6	60	E21.10683**
24004	200	8	45	E21.10684
24004	200	8	50	E21.10685
24004	200	8	60	E21.10686**
24004	220	10	45	E21.10687
24004	220	10	50	E21.10688
24004	220	10	60	E21.10689**
24004	250	12	45	E21.10690
24004	250	12	50	E21.10691
24004	250	12	60	E21.10692
24004	250	16	45	E21.10693
24004	250	16	50	E21.10694
24004	250	16	60	E21.10806
24004	280	16	60	E21.10695*

\*Only available with SolidHydro \*\*Not available with SolidHydro



### DIMENSION TABLE

T mm	R mm	Profile no.
13	4	24004
16	4	24004

### OPTIONS

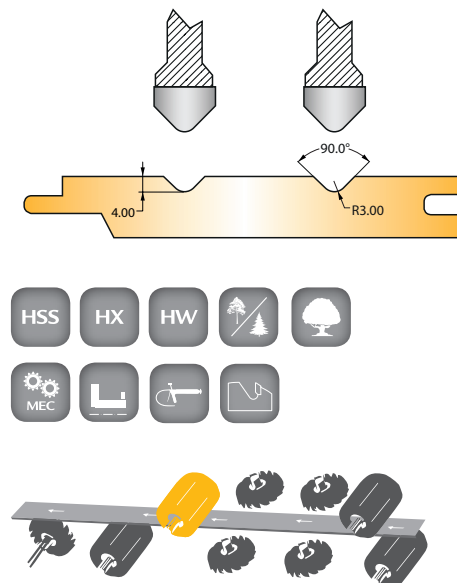
Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55

## PANEL, BACK SIDE GROOVES

Profile no.	D	Z	d	Art.no.
30612	180	6	60	E22.10654
30612	200	8	60	E22.10655
30612	220	10	60	E22.10656
30612	250	12	60	E22.10657
30612	280	16	70	E22.10658

### OPTIONS

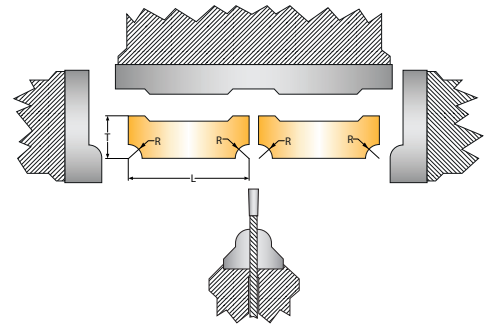
Accessories	Art.no.
Hydro sleeve	B45/60-140
Hydro sleeve	B50/60-140
Hydro sleeve	B45/60-190
Hydro sleeve	B50/60-190
Hydro sleeve	B60/70-190



# LID LATHS

Profile no. BS	Profile no. tongue TS	D	Z	d	Art.no. BS	Art.no. TS
	12484	180	6	45		E23.10490
	12484	180	6	50		E23.10491
	12484	180	6	60		E23.10492**
	12484	200	8	45		E23.10493
	12484	200	8	50		E23.10494
	12484	200	8	60		E23.10495**
	12484	220	10	45		E23.10496
	12484	220	10	50		E23.10497
	12484	220	10	60		E23.10498**
	12484	250	12	45		E23.10499
	12484	250	12	50		E23.10500
	12484	250	12	60		E23.10341
	12484	250	16	45		E23.10501
	12484	250	16	50		E23.10502
	12484	250	16	60		E23.10807
	12484	280	16	60		E23.10503*
30010		225	6	60	E23.10504	
30010		250	8	60	E23.10505	
30010		250	10	60	E23.10506	
30010		300	12	70	E23.10507	

\*Only available with SolidHydro \*\*Not available with SolidHydro



Profile no. LH	Profile no. tongue RH	D	Z	d	Art.no. LH	Art.no. RH
28071	28072	180	6	45	E23.10460	E23.10461
28071	28072	180	6	50	E23.10462	E23.10463
28071	28072	180	6	60	E23.10464**	E23.10465**
28071	28072	200	8	45	E23.10466	E23.10467
28071	28072	200	8	50	E23.10468	E23.10469
28071	28072	200	8	60	E23.10470**	E23.10471**
28071	28072	220	10	45	E23.10472	E23.10473
28071	28072	220	10	50	E23.10474	E23.10475
28071	28072	220	10	60	E23.10476**	E23.10477**
28071	28072	250	12	45	E23.10478	E23.10479
28071	28072	250	12	50	E23.10480	E23.10481
28071	28072	250	12	60	E23.10482	E23.10483
28071	28072	250	16	45	E23.10484	E23.10485
28071	28072	250	16	50	E23.10486	E23.10487
28071	28072	250	16	60	E23.10808	E23.10809
28071	28072	280	16	60	E23.10488*	E23.10489*

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE

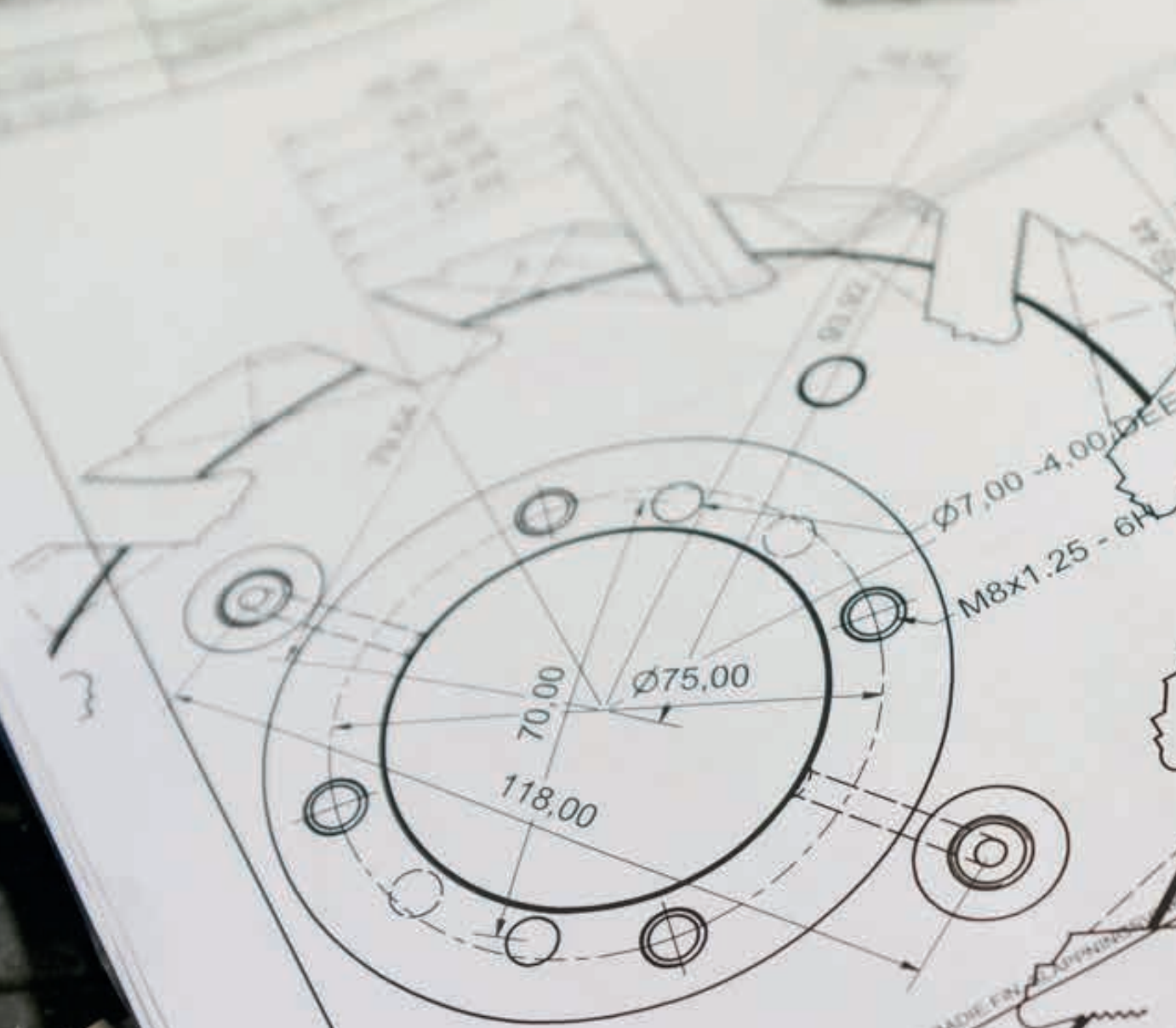
T mm	R mm	L mm	Profile no. LH	Profile no. RH	Profile no. TS	Profile no. BS
16	5	45	28071	28072	12484	30010

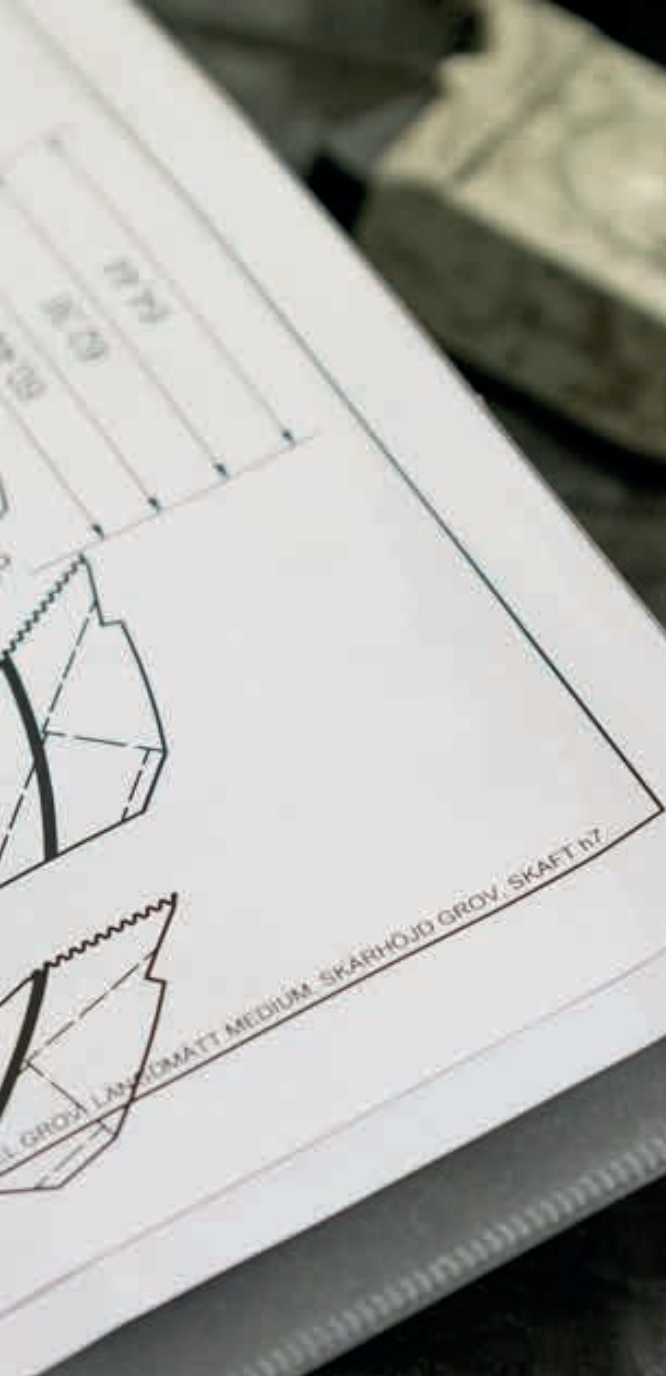
## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	B45/60-75
Hydro sleeve	B45/60-140
Hydro sleeve	B50/60-75
Hydro sleeve	B50/60-140
Hydro sleeve	B60/70-75



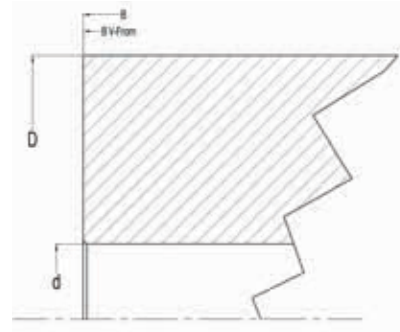
LSAB



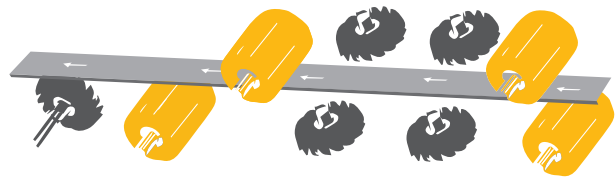




# HYDRO PLANER CUTTER



Cutter for planing i high feeds and demanding applications. Use with thin planer knives, page 61-62 and safety ring, page 71.

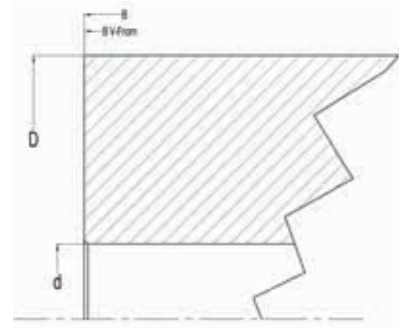


D	D2	B	Z	d	RPM	Art.no.
180	172	235	8	45	6000	E24.10711
180	172	235	8	50	6000	E24.10810
203	195	235	10	45	6000	E24.10712
203	195	235	10	50	6000	E24.10811
203	195	235	12	45	6000	E24.10713
203	195	235	12	50	6000	E24.10812
203	195	260	12	50	6000	E24.10714
203	195	260	16	50	6000	E24.10715
250	242	310	16	60	6000	E24.10716
250	242	310	20	60	6000	E24.10717

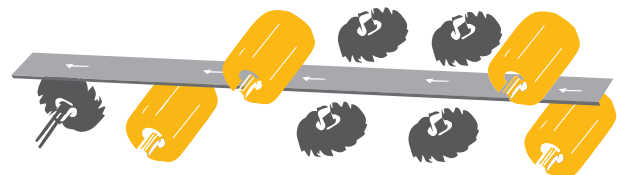
Torque wrench for planer cutters	Art.no.
Wrench 19-110Nm L385	V745600
M10 bits 3/8 hex	V745610
M12 bits 3/8 hex	V745611

Accessories	Art.no.
Posting tool	Y527-Trapp2/3
M12x20 Screw	K32087
Safety ring Ø45 spindle	K32091
Safety ring Ø50 spindle	K32092
Safety ring Ø60 spindle	K32093

# LIGHT HYDRO PLANER CUTTER



Light weight cutter for planing i high feeds and demanding applications. Use with serrated planer knives, page 61-62 and safety ring, page 71.



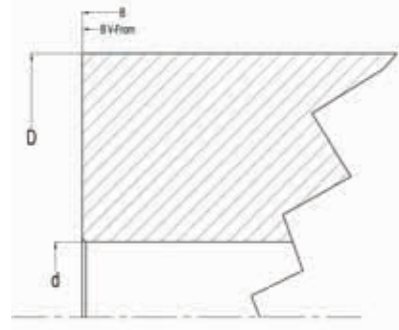
D	D2	B	Z	d	RPM	Art.no.
180	172	235	8	45	6000	E25.10718
180	172	235	8	50	6000	E25.10813
203	195	235	10	45	6000	E25.10719
203	195	235	10	50	6000	E25.10814
203	195	235	12	45	6000	E25.10720
203	195	235	12	50	6000	E25.10815
203	195	260	12	50	6000	E25.10721
203	195	260	16	50	6000	E25.10722
250	242	310	16	60	6000	E25.10723
250	242	310	20	60	6000	E25.10724

Torque wrench for planer cutters	Art.no.
Wrench 19-110Nm L385	V745600
M10 bits 3/8 hex	V745610
M12 bits 3/8 hex	V745611

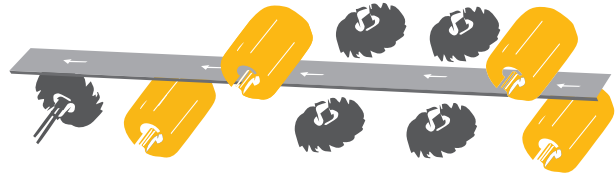
Accessories	Art.no.
M12x20 Screw	K32087
Safety ring Ø45 spindle	K32091
Safety ring Ø50 spindle	K32092
Safety ring Ø60 spindle	K32093



# HYDRO HELIX CUTTER



Pre cutting spiral tool with recessed indexable knives. Also available in light weight model. Can be ordered in different types with directed chip removal. Use with safety ring, page 71.



## HYDRO HELIX CUTTER

D	B	Z	d	RPM	Art.no. Single spiral	Art.no. Plow shaped spiral
180	235	4+4	45	6000	E26.10725	E26.10822
180	235	5+5	45	6000	E26.10726	E26.10823
180	235	6+6	45	6000	E26.10727	E26.10824
180	235	4+4	50	6000	E26.10816	E26.10825
180	235	5+5	50	6000	E26.10817	E26.10826
180	235	6+6	50	6000	E26.10818	E26.10827
200	235	5+5	50	6000	E26.10819	E26.10828
200	235	6+6	50	6000	E26.10820	E26.10829
200	235	7+7	50	6000	E26.10821	E26.10830
200	260	5+5	50	6000	E26.10728	E26.10831
200	260	6+6	50	6000	E26.10729	E26.10832
200	260	7+7	50	6000	E26.10730	E26.10833
250	310	7+7	60	6000	E26.10731	E26.10834
250	310	8+8	60	6000	E26.10732	E26.10835

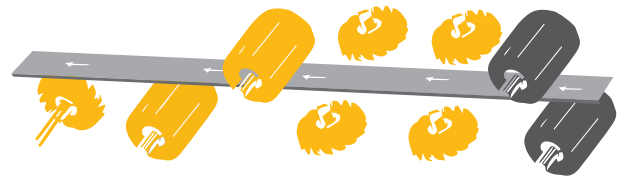
Accessories	Art.no.
Helix insert knife R115 15x15x2,5	15152,5-R115C
Helix screw	Helix screw R20
Safety ring Ø45 spindle	K32091
Safety ring Ø50 spindle	K32092
Safety ring Ø60 spindle	K32093

Torque wrench for Helix	Art.no.
Wrench 5-14 Nm	V745500
Bit holder 1/4 S6mm L=105	V745540
Bit Torx 20 L=50	V745547

# HYDRO PROFILE CUTTER



Cutter for profiled blanks. Used with profiled blanks (below) and safety ring, page 71.



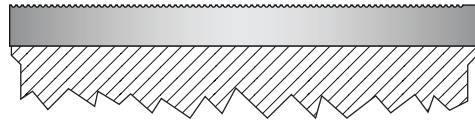
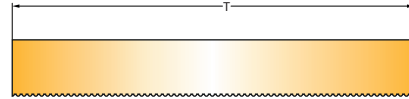
D	B	Z	d	RPM	Art.no.
150	60	6	50	6000	E27.10734
150	160	4	50	6000	E27.10735
150	160	6	50	6000	E27.10736
163	60	8	50	6000	E27.10737

## PROFILE BLANKS HSS

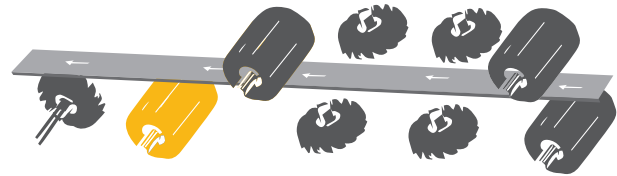
B mm	Art.no. H=50 Profile depth 13	Art.no. H=60 Profile depth 23	Art.no. H=70 Profile depth 32
40	K224050HSSR	K224060HSSR	K224070HSSR
60	K226050HSSR	K226060HSSR	K226070HSSR
80	K228050HSSR	K228060HSSR	K228070HSSR
100	K2210050HSSR	K2210060HSSR	K2210070HSSR
110	K2211050HSSR	K2211060HSSR	K2211070HSSR
130	K2213050HSSR	K2213060HSSR	K2213070HSSR
150	K2215050HSSR	K2215060HSSR	K2215070HSSR
160	K2216050HSSR	K2216060HSSR	K2216070HSSR
180	K2218050HSSR	K2218060HSSR	K2218070HSSR
230	K2223050HSSR	K2223060HSSR	K2223070HSSR



# PAINT CUTTER



LSAB invented straight edged tool with serration which provides a surface similar to fine sawn.



Profile no.	D	Z	d	Art.no.
10020	200	4	45	E28.10593
10020	200	4	50	E28.10594
10020	200	4	60	E28.10595**
10020	200	8	45	E28.10596
10020	200	8	50	E28.10597
10020	200	8	60	E28.10598**
10020	200	12	45	E28.10599
10020	200	12	50	E28.10600
10020	280	16	60	E28.10601*

Profile no.	D	Z	d	Art.no.
10021	200	4	45	E28.10602
10021	200	4	50	E28.10603
10021	200	4	60	E28.10604**
10021	200	8	45	E28.10605
10021	200	8	50	E28.10606
10021	200	8	60	E28.10607**
10021	200	12	45	E28.10608
10021	200	12	50	E28.10609
10021	280	16	60	E28.10610*

\*Only available with SolidHydro \*\*Not available with SolidHydro

## DIMENSION TABLE OPTIONS

T mm	Profilno.
145	10020
190	10021

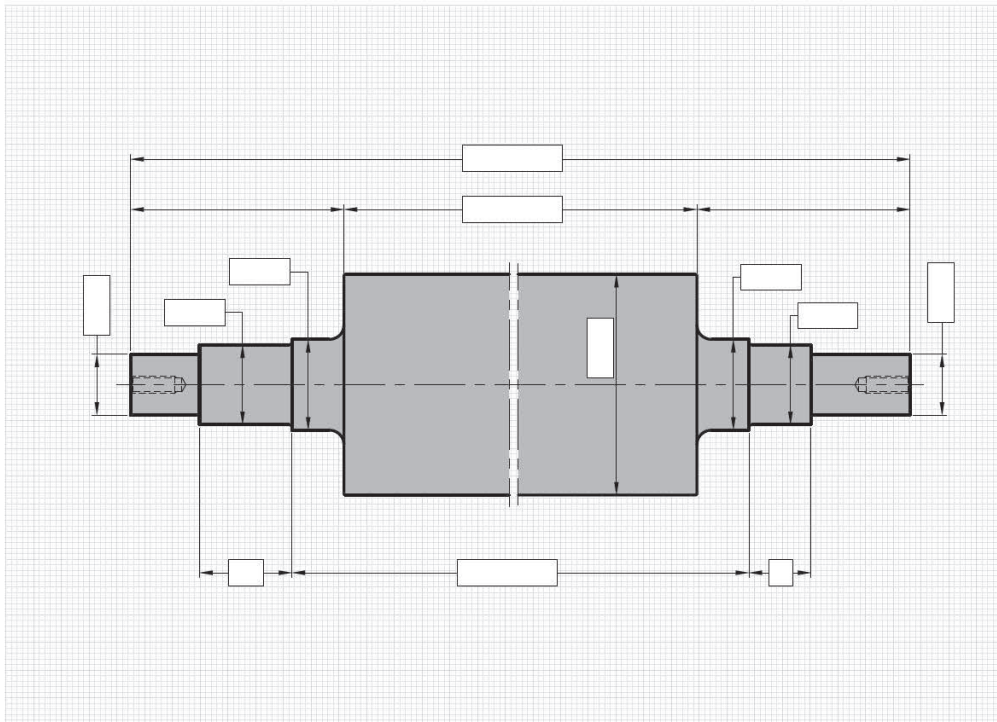
Accessories	Art.no.
Hydro sleeve	B45/60-140
Hydro sleeve	B50/60-140
Hydro sleeve	B45/60-190
Hydro sleeve	B50/60-190



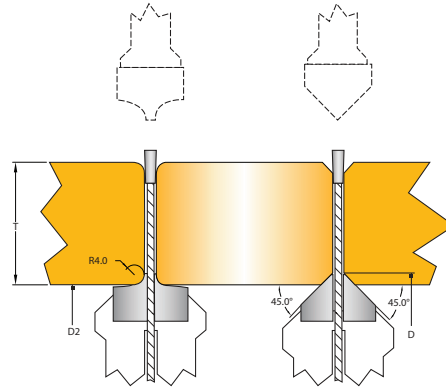
# PLANER CUTTER WITH INTEGRATED SPINDLE



Special cutter with integrated spindle. Measurements and dimension varies depending on machine and should be specified when ordering.



# SPLITTING SET



Splitting sets can be ordered with side tools for radius, chamfer or stabilizers for straight cuts. Combine splitting blade Galax TRZ with side tools and dividing cutter in Hardyx to get a high performance cutting unit suitable for demanding applications.

Profile no. R4	Profile no. 45°	D	D2	Z	d	Art.no. R4	Art.no. 45°
30030	40030	135	127	6	60	E08.10267	E08.10265
30030	40030	135	127	8	60	E08.10268	E08.10266
30032	40032	162	154	6	60	E08.10269	E08.10272
30032	40032	162	154	8	60	E08.10270	E08.10273
30032	40032	162	154	10	60	E08.10271	E08.10274
30034	40034	206	198	10	70	E08.10275	E08.10277
30034	40034	206	198	12	70	E08.10276	E08.10278



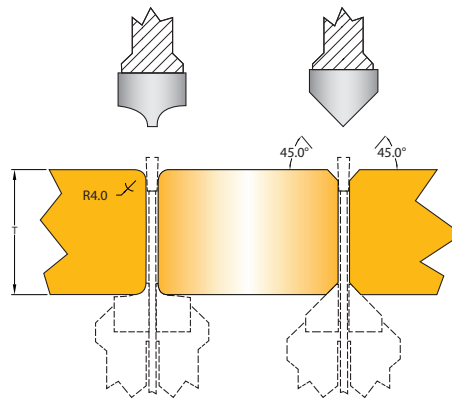
## DIMENSION TABLE

T mm	D mm	Art.no. blade	d mm	Profile no. R4	Profile no. 45°	Stabilizer diameter	Stabilizer Art.no.
25	200	A70760	60	30030	40030	115	11560016,0-3
45	225	A70761	60	30030	40030	115	11560016,0-3
25	225	A70761	60	30032	40032	140	14060016,0-3
45	250	A70762	60	30032	40032	140	14060016,0-3
70	300	A70764	60	30032	40032	140	14060016,0-3
25	250	A70773	70	30034	40034	180	18070016,0-3
45	300	A70772	70	30034	40034	180	18070016,0-3
70	350	A70769	70	30034	40034	180	18070016,0-3

## OPTIONS

Accessories	Art.no.
Hydro sleeve	B45/60-75
Hydro sleeve	B45/60-190
Hydro sleeve	C50/60-55
Hydro sleeve	B50/60-75
Hydro sleeve	B50/60-190
Hydro sleeve	B60/70-75
Hydro sleeve	B60/70-190

# DIVIDING CUTTER



Dividing cutter for top spindle, used in combination with splitting set. Available with radius or chamfer. Choose Hardyx and Solid hydro for shorter set up, high precision and long running time.

Profile no. R4	Profile no. 45°	D	Z	d	Art.no R4	Art.no. 45°
30867	40867	180	6	45	E09.10836	E09.10837
30867	40867	180	6	50	E09.10838	E09.10839
30867	40867	180	6	60	E09.10279**	E09.10285**
30867	40867	200	8	45	E09.10840	E09.10841
30867	40867	200	8	50	E09.10842	E09.10843
30867	40867	200	8	60	E09.10280**	E09.10286**
30867	40867	200	10	45	E09.10844	E09.10845
30867	40867	200	10	50	E09.10846	E09.10847
30867	40867	200	10	60	E09.10281**	E09.10287**
30867	40867	220	12	45	E09.10848	E09.10849
30867	40867	220	12	50	E09.10850	E09.10851
30867	40867	220	12	60	E09.10282**	E09.10288**
30867	40867	250	12	45	E09.10852	E09.10853
30867	40867	250	12	50	E09.10854	E09.10855
30867	40867	250	12	60	E09.10283	E09.10289
30867	40867	280	16	60	E09.10284*	E09.10290*



## DIMENSION TABLE

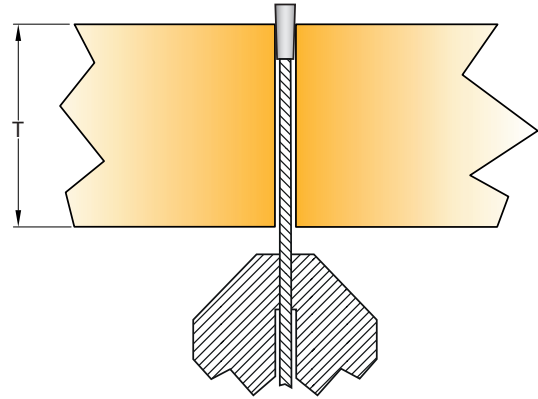
Profile no. R4	Profile no. 45°
30867	40867

## OPTIONS

Accessories	Art.no.
Hydro sleeve	A45/60-55
Hydro sleeve	A50/60-55
Hydro sleeve	A60/70-55

\*Only available with SolidHydro \*\*Not available with SolidHydro

# SPLITTING BLADE GALAX TRZ



HW

D mm	B mm	b mm	Z	d mm	Art.no. blade
200	3,0	2,0	28	60	A70760
225	3,2	2,2	42	60	A70761
250	3,4	2,4	46	60	A70762
300	3,5	2,5	52	60	A70764
250	3,4	2,4	46	70	A70773
300	3,5	2,5	52	70	A70772
350	3,5	2,5	60	70	A70769

High performance splitting blade for planers. Innovative design and technical characteristics enables extreme running time and a cut surface comparable to planed surface. The Galax TRZ is also outstanding at very high feeding speeds. Suitable for both vertical and horizontal splits.

## SPLITTING BLADE GALAX TRZ FOR LOW FEED

Feed up to 100 m/m

D mm	B mm	b mm	Z	d mm	Art.no. blade
225	3,2	2,2	32	60	A70770
250	3,4	2,4	36	60	A70771

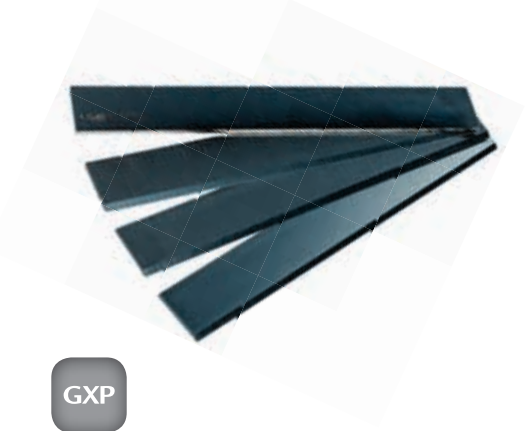


# PLANER KNIVES

## GALAX PRO

A high performance planer knife that vastly improves running times compared to HSS. GalaxPro also allows a higher feeding speed and provides better surface finish. The material is not brittle which makes it durable to foreign objects such as clips and rocks.

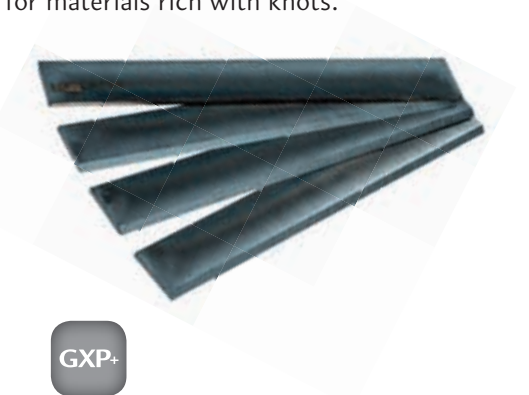
Dimension Thin	Dimension Thin	Dimension Back serrated	Art.no.	Art.no.	Art.no.
180x30x3			K308609		
230x30x3			K308613		
235x30x3			K308614		
260x30x3			K308616		
310x30x3			K308618		
	180x35x3			K308709	
	230x35x3			K308713	
	235x35x3			K308714	
	260x35x3			K308716	
	310x35x3			K308718	
		180x30x4			K308815
		230x30x4			K308818
		235x30x4			K308819
		260x30x4			K308822
		310x30x4			K308827



## GALAX PRO+

A high performance planer knife that vastly improves running times compared to HSS. GalaxPro+ also allows a higher feeding speed and provides better surface finish. The material is not brittle which makes it durable to foreign objects such as clips and rocks. GalaxPro+ is extra suitable for materials rich with knots.

Dimension Thin	Dimension Thin	Dimension Back serrated	Art.no.	Art.no.	Art.no.
180x30x3			K309209		
230x30x3			K309213		
235x30x3			K309214		
260x30x3			K309216		
310x30x3			K309218		
	180x35x3			K309109	
	230x35x3			K309113	
	235x35x3			K309114	
	260x35x3			K309116	
	310x35x3			K309118	
		180x30x4			K309315
		230x30x4			K309317
		235x30x4			K309318
		260x30x4			K309321
		310x30x4			K309324



# PLANER KNIVES

CONT. FROM PAGE 61

## HSS

Dimension Thin	Dimension Thin	Dimension Back serrated	Art.no.	Art.no.	Art.no.
180x30x3			K308209		
230x30x3			K308213		
235x30x3			K308214		
260x30x3			K308216		
310x30x3			K308218		
	180x35x3			K308309	
	230x35x3			K308313	
	235x35x3			K308314	
	260x35x3			K308316	
	310x35x3			K308318	
		180x30x4			K308815
		230x30x4			K308818
		235x30x4			K308819
		260x30x4			K308822
		310x30x4			K308827



LSAB's HSS is optimized for good heat resistancy and long running time. It is suitable for soft materials and stays sharp for a long time.

HSS

## PROLITE

Dimension Thin	Dimension Thin	Dimension Back serrated	Art.no.	Art.no.	Art.no.
180x30x3			K308009		
230x30x3			K308013		
235x30x3			K308014		
260x30x3			K308016		
310x30x3			K308018		
	180x35x3			K308109	
	230x35x3			K308113	
	235x35x3			K308114	
	260x35x3			K308116	
	310x35x3			K308118	
		180x30x4			K308515
		230x30x4			K308518
		235x30x4			K308522
		260x30x4			K308522
		310x30x4			K308527



LSAB ProLite is our cost efficient planer knife optimized for softwood. It's versatile and suitable also for material with a higher percentage of moisture.

PL



# SERVICE & ACCESSORIES







## SERVICE

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# Service that suit your needs

LSAB offers full responsibility for the tools over their lifetime. This includes service, grinding, balancing etc. We have knives of all sizes on stock, as well as accessories, i.e. spare parts, grease and distance rings. We also keep most dimensions of splitting blades on stock.

We have service centers on strategical places in

Sweden, and we take responsibility for logistics.

Take advantage of LSAB:s customized stock to eliminate downtime in your production. We are happy to build stock of unique products for immediate delivery. Discuss different solutions with us and we will find a service agreement that suit your needs.

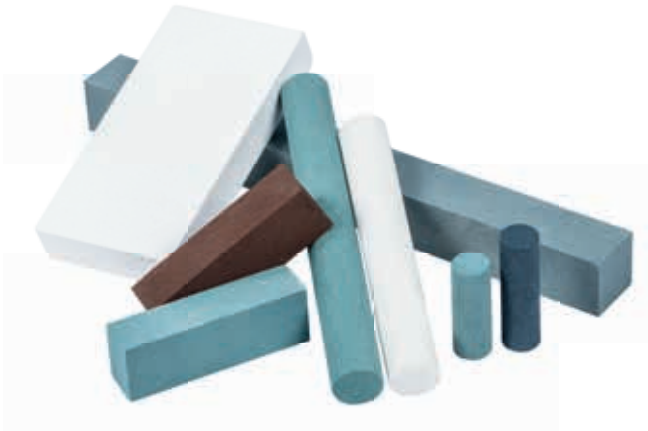




# ACCESSORIES

## HYDRO SLEEVES

D mm	d mm	Fastening length	Art.no. Sleeve
60	45	40	B45/60-75
60	45	60	B45/60-95
60	45	105	B45/60-140
60	45	155	B45/60-190
60	50	40	B50/60-75
60	50	60	B50/60-95
60	50	105	B50/60-140
60	50	155	B50/60-190
70	60	40	B60/70-75
70	60	105	B60/70-140
70	60	155	B60/70-190



## JOINTING STONES

Round joint							Art.no.
	grain						
Weinig	12x32	280	Coarse	Grey	HSS	Smaller moulders	V14401
Weinig	12x33				HW	Jointing carbide	V14402
Jonsered	15,5x100	120	Coarse	Grey	HSS	Standard Jonsered	V14403
Waco	16x100	120	Coarse	White	HSS	Coarse jointing Waco	V14404
Waco	16x125	240	Medium		HSS	Fine jointing works well on coated knives	V14405
Square shaped							Art.no.
Weinig	60x20x15	280	Coarse	Grey	HSS	Coarse jointing	V14406
Weinig	60x20x15	500	Fine		HSS	Fine jointing works well on coated knives	V14407





## HYDRO GREASE

Grease for pressurizing of tools	Art.no.
Grease cartridge 400g	K33090
M-08 Grease pump	V09201
Chuck for M-08 grease pump	K49828

Nipples	Art.no.
Pressurizing nipple	32088
Release nipple	32089

## CARMALIT

A favourite sliding agent among our customers. Its priceworthy and long-lasting. Carmalit contains no silicone or diesel and will not affect the wood. It will also keep your machine cleaner without damaging its frames paint. Carmalit is produced in Sweden, its not sensitive to frost and not classified as dangerous goods which also provides cheaper freights.



Product	Volume	Art.no.	Stock
Carmalit	200 liters barrel	V703251	x
Carmalit	5 liters container	V703250	x

X = NORMALLY AVAILABLE FROM STOCK

# ACCESSORIES CONT. FROM PAGE 68

## GRINDING WHEELS FOR SCHNEEBERGER

Grinding wheels for front/breast in Schneeberger grinding machines

Wheel type	Dimension	Art.no.
Borazon 15V9, B126W75RCN	D=175x6x2x23, d=20	V772275
Diamond 15V9/45, D76W75RPN	D=175x10x2x23, d=20	V771075



Grinding wheels for back grinding of straight planer cutter heads

Wheel type	Dimension	Art.no.
Borazon 6A9, B126C75	D=100x3x6, d=20	V772276

## GRINDING WHEELS FOR WEINIG

Grinding wheels for back grinding of straight planer cutter heads  
Weinig Rondamat 912 och 909

Wheel type	Dimension	Art.no.
Borazon B126-C74-W	125x3x4x20	V772282

Front/breast grinding in Weinig Rondamat 912

Wheel type	Dimension	Art.no.
Diamond, D76-C75-W	150x2x3,3x20	V771093
Borazon, B126-C75-W	150x2x3,3x20	V772289



## DRESSING STONES FOR GRINDING WHEELS

Dimension	Art.no.
100x25x13	V14341

## SAFETY RINGS

D mm	d mm	T mm	Art.no. Safety ring
98	40	20	K32090
98	45	20	K32091
98	50	20	K32092
105	60	20	K32093
140	70	20	K32063



## SPACER RINGS

T mm	Art.no. D65/d40	Art.no. D70/d45	Art.no. D75/d50	Art.no. D90/d60	Art.no. D104/d70	Art.no. D130/d100
0,1	6540-000,1	7045-000,1	7550-000,1	9060000,1-1	10470000,1-2	130100000,1-1
0,2	6540-000,2	7045-000,2	7550-000,2	9060000,2-1	10470000,2-2	130100000,2-1
0,5	6540-000,5	7045-000,5	7550-000,5	9060000,5-1	10470000,5-1	130100000,5-1
1,0	6540-001,0	7045-001,0	7550-001,0	9060001,0-1	10470001,0-2	130100001,0-1
2,0	6540-002,0	7045-002,0	7550-002,0	9060002,0-1	10470002,0-2	130100002,0-1
3,0	6540-003,0	7045-003,0	7550-003,0	9060003,0-1	10470003,0-2	130100003,0-1
5,0	6540-005,0	7045-005,0	7550-005,0	9060005,0-1	10470005,0-1	130100005,0-1
10,0	6540-010,0	7045-010,0	7550-010,0	9060010,0-1	10470010,0-1	130100010,0-1
20,0	6540-020,0	7045-020,0	7550-020,0	9060020,0-1	10470020,0-1	

## SPACER RING SETS

T mm	Art.no. D65/d40	Art.no. D70/d45	Art.no. D75/d50	Art.no. D90/d60	Art.no. D104/d70	Art.no. D130/d100
1	RP6540-1	RP7045-1	RP7550-1	RP906-1	RP10470-1	RP130100-1
2	RP6540-2	RP7045-2	RP7550-2	RP9060-2	RP10470-2	RP130100-2
3	RP6540-3	RP7045-3	RP7550-3	RP9060-3	RP10470-3	RP130100-3
4	RP6540-4	RP7045-4	RP7550-4	RP9060-4	RP10470-4	RP130100-4
5	RP6540-5	RP7045-5	RP7550-5	RP9060-5	RP10470-5	RP130100-5
6	RP6540-6	RP7045-6	RP7550-6	RP9060-6	RP10470-6	RP130100-6
7	RP6540-7	RP7045-7	RP7550-7	RP9060-7	RP10470-7	RP130100-7



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# CUTTING EXCELLENCE CLOSE TO YOU

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LSAB is a merger of Långshyttangruppen, Woodtechnique, Westlings and Visträsk Slipservice – each company a dominant supplier in their niche. Together we form a strong international company with a complete range of services as well as world-class products. We also know that our customers need more than just a good product to achieve their goals. Therefore, we offer a comprehensive service offering that includes everything from service to optimizer services to maximize the outcome.

*LSAB is a part of LSAB Group AB whose owner Latour Industries is owned by Investment AB Latour and represent one of five operating wholly owned business areas. LSAB Group AB operates in a total of 7 countries with approximately 250 employees and a turnover of SEK 550. Our export market consists of about 40 additional countries and you can find our products on all continents except Antarctic. LSAB Group consists of the LSAB companies (Sweden, Norway, Finland, Russia, Estonia and Latvia), the Fortiva companies (Sweden and Denmark) and Micor AB (Sweden).*

**For further information please contact us!**

support@lsab.se / +46 10 557 55 50

**CUTTING EXCELLENCE. CLOSE TO YOU.**

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**LSAB**  
cutting excellence