

# LOGOSOL USER MANUAL

USER MANUAL IN ORIGINAL FORMAT.  
ARTICLE NO: 0458-395-2106



## LOGOSOL DH410



Read through the user manual carefully and make sure you understand its contents before you use the planer/moulder.



This user manual contains important safety instructions



**WARNING!** Incorrect use can result in serious personal injury or even death to the operator or others.

## Thank you for choosing a Logosol machine!

Welcome! We are very pleased that you have demonstrated your confidence in us by purchasing this planer/moulder and we will do our utmost to meet your expectations.

Logosol has been manufacturing sawmills since 1988, and since then we have supplied machines to satisfied customers worldwide. We want to assist you in safely achieving the very best possible results from your planer/moulder. We therefore recommend that you take the time to read this user manual from cover to cover before you begin using the machine.

Remember that the planer/moulder itself is just part of the value of the product. Much of the value is also to be found in the expertise we pass on to you in the user manuals. It would be a pity if that were not utilized.

We hope you get a lot of satisfaction from the use of your planer/moulder.



**Bengt-Olov Byström**

Founder and Chairman of the Board,  
Logosol AB



LOGOSOL is engaged in continuous development of its products.

We must therefore reserve the right to change the design and form of our products.

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Document: Logosol PH360 Manual

Image: Bo Mårtensson, Lars Wahlström

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## SAFETY INSTRUCTIONS



For your own safety, read the entire instruction manual carefully and do not start the planer/moulder before you have understood everything.



Use approved ear protection and protective goggles. Hearing can be damaged after only a short exposure. Use approved safety goggles. Splinters and pieces of wood can be hurled out with great force when the machine is in operation.



Warning! Cutting tools. Never stick hands or tools above or beneath the machine table or in the chip outlets while the machine is running.

Risk of cutting injuries. Use protective gloves when handling the knives. It is especially important that you wear gloves when loosening or tightening the lock screws for the knives and the fences (as there is a risk that you slip with the spanner).



This symbol means "WARNING!". Be extra vigilant when this symbol appears in the manual text.



This symbol is followed by a prompt. Be extra vigilant when this symbol appears in the manual text.

- This document is mainly a machine instruction. It does not constitute training in machine planing. If used incorrectly, the Logosol DH410 can cause serious personal injury. Always be focused and careful when using the machine.
- Ensure that non-authorized persons do not use this moulder.
- Never stand along the the workpiece's extension line as kickback can occur, and bits of the workpiece can be thrown out of the planer/moulder. Also knots, splinters, or pices of the knives can be hurled out with great force. Always stand at the side of the in-feed table.
- Only one work piece at a time may be fed through the machine.
- Make sure that the machine is set up so that the feed roller (5\*) take a firm hold of the work piece.
- Do not feed into the machine work pieces that are so conical that the feed roller risk losing hold. Always measure the workpiece and set suitable thickness and width before planing. There is a high risk of accident if the feed roller looses its grip of the workpiece.
- Small dimensions must be planed using fixtures, e.g. a piece of wood with a customized groove that extends along the full length of the table. The same applies when the work piece is higher than it is wide.
- Before starting the machine:
  - Get familiar with all functions and setting possibilities before using the machine.
  - Make sure that the cutter can rotate freely, and that no tools or loose parts are left inside the machine.
  - Make sure that the cover is properly closed and that the locking screw in the cover is securely tightened.
  - Make sure that all knobs, screws, nuts, fences, knife gibs, cutter heads knives, protective covers, in- and out-feed tables, etc. are firmly tightened/ secured.
- Make sure that the chip hoses are fitted with hose clamps, and that the chip extractor is switched on.
- Make sure that no other person besides that operator is within the safety distance
- In this manual, the phrase "disconnect the power" means that the cable with the CEE plug, which supplies the machine with electricity, is pulled out and placed so that no unqualified person can connect it to the machine.
- Disconnect the power by pulling out the plug, and wait for the cutter head to stop before :
  - opening the cover to change planing/moulding knives, or to carry out any other opertion above or beneath the machine table.
  - replacing belts or performing any other servicing or cleaning.
  - moving the machine.
  - leaving the machine unsupervised.
- Chip hose and chip extractor must be fitted securely to the machine's chip duct, e.g. with hose clamps.

- The machine should be equipped with in- and outfeed tables of a length of at least 1 m (3.28 ft) each.
- Do not wear loose-fitting clothing or anything else that can get caught in the machine's moving parts. If you have long hair you should put it up in a reliable way.
- Always work in good lighting.
- Do not use the machine under the influence of alcohol or other drugs.
- Keep the worksite tidy. Do not leave anything you can trip over lying on the ground.
- Never put your hands or any tools on the machine table while the machine is running.
- Do not climb up onto the machine.
- Do not step on the machine's power cable. The cable should be secured to the ceiling.
- Place the machine so that the emergency stop is not blocked.
- For maximum electrical safety, a residual current device should be used.
- The machine must not be modified or added to. Only use original parts from Logosol. After servicing, the machine must be restored to its original condition.
- The warning labels of the machine are there for everyone's safety. Damaged or illegible labels must be replaced.
- Dull knives increase the risk of accidents.
- Risk of kickbacks.
- Minimum length of the workpiece: 300 mm (11.8").

## GENERAL

- Check the planer/moulder as soon as you receive it. Report any transport damage to the transport company immediately.

- Lift the planer/moulder using a fork-lift or pallet jack.

## APPLICATIONS

This machine can be used for planing and moulding wood.

Hard materials such as teak, MDF, etc. require hard carbide tools, see the Logosol-Toolbox catalogue.

The planer/moulder is designed for indoor use, with temporary outdoor use.

## ENVIRONMENTAL REQUIREMENTS

The temperature in the premises in which the machine is stored should be above freezing, unless special measures are taken: Trapezoidal thread bars, machine table, knives, etc. must be rust-protected with oil (e.g. Super-Flo 9999-000-5115).

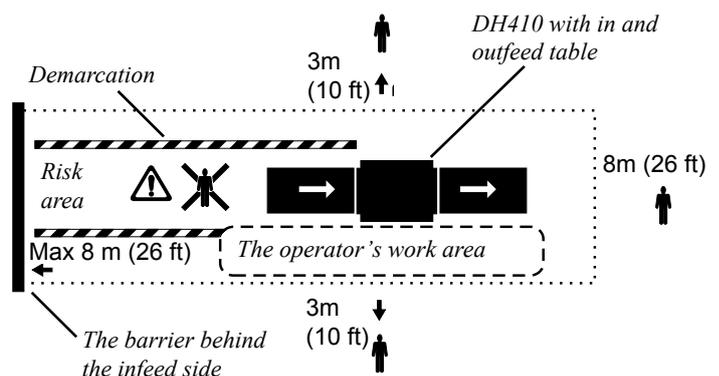
Ventilation in the premises must be mechanical, and of a good standard.

The planer/moulder must be connected to a chip extractor, which is approved according to CE-standards, see page 10.

## SAFETY DISTANCE

 Other than the operator, no-one should be within 3 meters (10 ft) of the planer/moulder's sides or 8 meters (26 ft) from the in and outfeed sides during operation. Mark a limit that prevents anyone accidentally wandering into the risk area.

**TIPS:** An extended infeed table is practical to use, and prevents anyone coming into the risk area.



## TOOLS REQUIRED

### A LIST OF THE TOOLS REQUIRED TO BE ABLE TO WORK WITH THE PLANER/MOULDER:

Allen key 4 mm (supplied)  
Allen key 5 mm  
Allen key 6 mm  
Open ended wrench 10 mm (supplied)  
Ring wrench 10 mm  
Ring wrench 13 mm  
Open ended wrench 30 mm (supplied)  
(for milling spindle)  
Adjustable wrench size 8 or 10  
(for milling spindle)  
Sliding caliper  
Measuring tape or ruler  
Super-Flo for the table  
Whetstone  
Silbergleit  
Spray kit

***Tips!** Make a tool board with the tools you need, and position it next to the planer/moulder so that you can see it easily. Look at the tool board before you start the planer/moulder to see if any tools are missing. They could have been left in the planer/moulder!*



## MACHINE DESCRIPTION

The DH410 is a planer/moulder that can work two sides of a workpiece in one operation. The machine is contained in a stable and strong chassis. The machine table is made of cast iron.

The workpiece is fed, lying on the machine table, through the machine by three feed rollers of which one is an out-feed roller. The rollers are driven by a chain transmission with separate motor. The workpiece is controlled laterally with an adjustable fence and a pressure roller.

The work is done using a top cutter, which is hung at both ends in the chassis, and a side cutter. Both cutters are driven by separate motors, via a belt transmission.

The cutters and feed rollers are covered by a foldable protective cover. The protective cover is supplied with a safety switch. Another safety switch sits behind the top edge of the protective cover on the infeed side. A 100 mm (4") hose is connected to the top cutter and side cutter for connection to a chip extractor.

### TABLE SURFACE

The table is cast in the highest quality. The table surface is specially processed for the highest precision and the best anti-friction qualities. When the machine is new, it requires a running-in period until the table gets a slightly shinier surface to optimize the anti-friction qualities. During this period, we recommend that you use a lubricant or Super-Flo spray (item no. 9999-000-5115 ) on the table.

## PREPARATIONS

Certain parts are not assembled on delivery for transport and packaging reasons.

1. Assemble the control panel in place with the arm where the cabling goes (22).
2. Assemble the fences.
3. Connect the planer/moulder to the chip extractor.
4. Before the planer/moulder is connected to the electrical circuit, check that all cutters can rotate freely, and that all parts are fixed.

## SETUP

Check your DH410 as soon as you receive it. Any transport damage must be reported to the transport company immediately.

Most of the planer/moulder is protected against rust and can be stored in cold premises, but it will require extra maintenance in the form of lubrication for all the parts not protected against rust. See the Maintenance section.

- Place the planer on a stable and flat ground. Preferably screw the planer down using the holes in the base, if the castor set is not used.
- Ensure that there is enough space at the in and outfeed sides for the longest boards you want to machine, and that there is enough space for maintenance and timber stocks.
- Connect the chip hoses and fix using the hose clamps on the planer/moulder and chip extractor.

- Hang the planer's electrical cable in the ceiling or protect it in another way. Never step on the cable. The planer/moulder should be connected via an residual current device.
- Ensure that lighting is good. There should be good general lighting. Also set up a strong lamp directly over the machine. Ensure that there is no risk of glare.

### SPACE REQUIREMENTS

The machine needs a space of at least 2 m (6 1/2 ft) width. The length required depends on the length of the workpieces you want to plane. The minimum length is 2 x the length of the workpiece plus 2 additional metres.

 Be aware of the risk of being crushed between the workpiece and the wall if you use the machine in a too small space.

## CHIP MANAGEMENT

The DH410 must be connected to a chip extractor with a capacity of at least 3,000 m<sup>3</sup>/h (10,000 cubic feet/hr). Logosol has a range of pipes, sleeves and hoses. Ask LOGOSOL's advice to find a chip-handling system that suits you.

Remember that you need an air vent in your chip container (e.g. a fine net or filter if you carry out chip collection indoors). Poor suction is often due to poor airflow from the chip container. If you work in heated premises, remember that the fan will quickly cool the space if you do not lead the filtered air back into the building. Consideration must be taken for fire risk and dust emissions (discharge) in connection with chip collection.

 Fire risk and dust emission in connection with chip management.

 Contact the local authorities for advice in designing a chip collection system to conform with rules in your area.

 Position the chip extractor so that you can easily reach the switch, or let an electrician connect the chip extractor to the free button on the control panel of the planer/moulder.

 Chips that are left in the planer/moulder must be vacuumed up after every work session.

### TECHNICAL REQUIREMENTS CHIP EXTRACTOR

- The chip extractor must be approved according to the CE-standard.
- The airflow "without external connection" must be approx. 4000-5000 m<sup>3</sup>/hour (13,000-16,500 cubic feet/hour).
- (The manufacturer's standard indication of airflow.)
- The sleeve diameters for the planer = 100 mm (4") x 2.
- The pressure loss in the planer is 26 mm of water column at 25 m/s (1 inch of water column at 82 ft/s).

## IN- AND OUT-FEED TABLES

Logosol supplies ready-to-use in- and out-feed tables made of steel sheet (1 table. item no. 7500-010-0010). You can also build your own in- and out-feed tables. To ensure that no knife marks will be left on the ends of work pieces, it is vital that the in-feed table, the machine table, and the out-feed table are exactly level with each other.

For the best results Logosol's feed tables are to be used.



## STARTING THE MACHINE

 Risk of serious injury.

 Read the safety instructions.

 Check that the cutters can rotate freely.

Connect the planer electrically. Watch the rotational direction. If you are standing by the feeder gear, the rotational direction of the top cutter must be counter-clockwise.

The connecting plug is supplied with a phase reverser, which makes it easy to change the direction of rotation.

## CONTROL PANEL

The top red button (B) is the emergency stop and switches off the power to all functions. When the emergency stop has been activated, it must be pulled out again in order for the planer/moulder to be re-started. For the function of the other buttons,

see picture below.



- A. Start and stop
- B. Emergency stop  
(pull it out for re-starting the machine)
- C. Indicator for connected power supply
- D, E, F Indicators for each motor
- G. Start, top cutter
- H. Start, side cutter
- I. Start, feed

## TOP CUTTER

**!** Before you open the protective cover on the planer, ensure that the power is switched off and that the cutters are not rotating. Use protective gloves, particularly when you need to loosen screws that are tightly fastened, or when you are tightening screws (see safety instructions). Beware of the planer knives. It is extremely easy to cut yourself on these, even with the slightest touch.

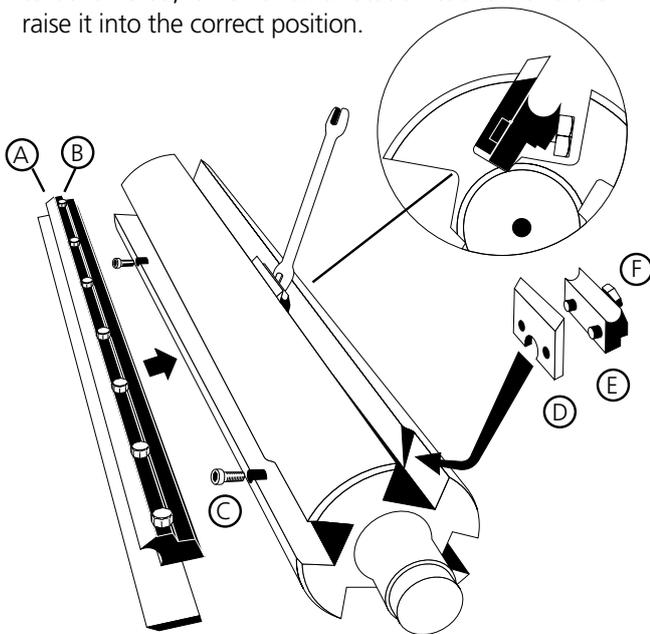
### DISASSEMBLING THE PLANER KNIVES

The planing knives are disassembled by loosening the chip breaker's (A) lock screws (B) and then unscrewing the planing knives with adjuster screws (C).

### GRINDING THE PLANING KNIFE

Always grind the knives in pairs, so they are the same height, min. 15 mm (.600"), otherwise vibrations could occur in the cutter. The grinding angle must be 38 degrees. You can order a grinder from Logosol for sharpening moulding and planing knives (Tormek T7 Grinder Logosol Edition item no. 7010-000-1025, Jig for planing knives item no. 7010-000-1005).

Always set the top cutter by moving it upwards to reduce any slack in the threads. If the top cutter needs to be lowered, lower it half a rotation too low and then raise it into the correct position.



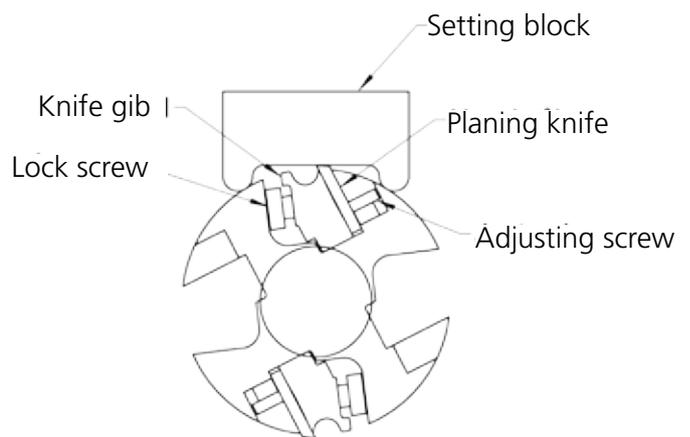
### MOUNTING AND ADJUSTING PLANING KNIVES

Adjust the planing knives so that they are at the same level and protrude 1 mm (.040"). This is done using an aluminum setting block (item no. 7500-000-1020), found in the component packaging on the planer table when the planer/moulder is delivered.

Loosen the chip breaker's lock screws slightly, and pass the setting block over the knife. Adjust the knife up or down until the knife brushes against the block when it is passed over the knife. (The planing knife protrusion can also be adjusted using a magnetic adjuster for the top cutter, item no. 7500-001-0050. See the instructions enclosed with the magnetic adjuster.)

### After adjusting or replacing planing knives:

- !** Make sure there no tools are left inside the machine.
- !** Make sure that all screws are securely tightened.
- !** Make sure that the cutter heads can rotate freely before closing the protective cover.
- !** Do you remember the safety instructions on pp.4-5?



## MOULDING KNIVES IN THE TOP CUTTER

**!** Before you open the protective cover on the planer, ensure that the power is switched off and that the cutters are not rotating. Use protective gloves, particularly when you need to loosen screws that are tightly fastened, or when you are tightening screws (see safety instructions). Beware of the planing and moulding knives. It is extremely easy to cut yourself on these, even with the slightest touch.

Moulding knives can be mounted in the top cutter. Moulding knives must always be mounted in pairs – opposite each other. A certain sideways offset of the knife, can however be accepted, as long as the cutter remains balanced.

**!** **WARNING!** Unbalance in the cutter creates vibrations that can damage the planer and cause personal injury.

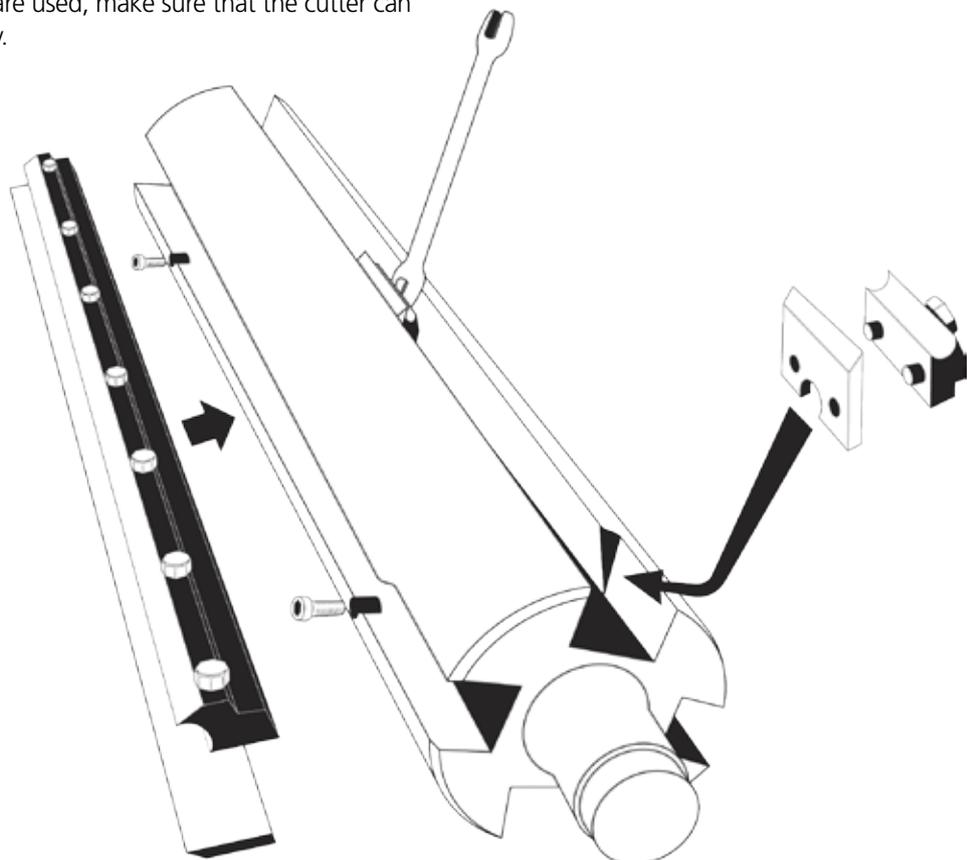
**!** Moulding knives must always be mounted in pairs, so that the cutter remains balanced.

**!** **WARNING!** If moulding knives with large protrusion are used, make sure that the cutter can rotate freely.

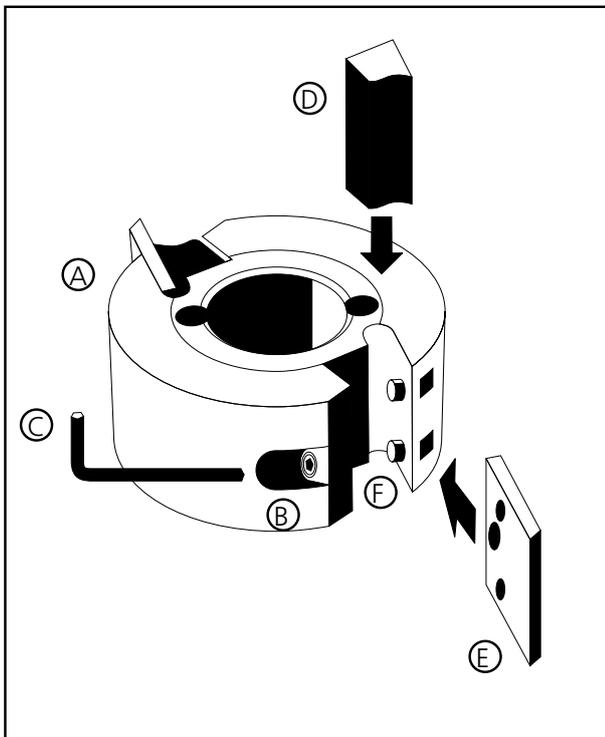
### ASSEMBLY

The top cutter head have four tooling slots. As mentioned above, the planer is delivered with two planing knives assembled in two of the tooling slots. In the other two tooling slots, moulding knives of different sizes and profiles can be assembled.

- Assemble the knife gib and the moulding knife. See illustration below.
- Insert the gib and the moulding knife in the wide end of the slot in the cutter head.
- Push the knife and gib into the groove. Measure the position using the millimetre scale on the cutter, and fix by tightening the screw tightly on the back of the gib.
- The lock screw must not be placed over the area where the tooling slots are extended.
- Measure the position of the knife laterally and assemble an identical knife in exactly the same position on the cutter's opposite side.



## SIDE CUTTER



**!** Before you open the protective cover on the planer, ensure that the power is switched off and that the cutters are not rotating. Use protective gloves, particularly when you need to loosen screws that are tightly fastened, or when you are tightening screws (see safety instructions).

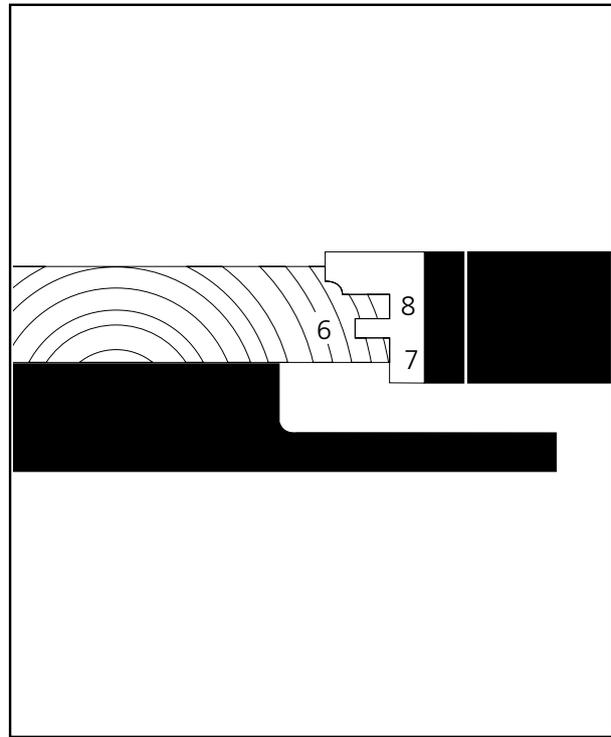
The side cutter is fixed to the planer table. The spindle is 30 mm (1 2/10") in diameter, which is a standard measurement. Upon delivery, the side cutter is equipped with planing knives, which you can easily replace with moulding knives. For reasons of safety, the cutters work with conventional milling (the workpiece is fed towards the moulder's cutting motion).

### DISASSEMBLING THE SIDE CUTTER

Loosen the nut on the spindle with a 30 mm wrench (supplied) and an adjustable wrench. Unscrew the nut and remove the cutter (A) and any spacing rings under the cutter.

### REPLACING KNIVES

Loosen the lock screw (B) with a 4 mm Allen wrench (C) (supplied) and remove the chip breaker (D). Then remove the knife (E) from the pegs (F). Insert a new knife and tighten the locking screw tightly.



**!** Ensure that you turn the knives in the right direction when you mount them in the cutter. The cutting edge must be turned towards the chip breaker. Also check that the cutter is facing the right direction on the spindle. Both of the planer/moulder's cutters turn the same way as with conventional milling

**!** Check that the spring plate in front of the side cutter is not at risk of being bent towards the cutter by the workpiece's unplanned edge. Pay particular attention when machining workpieces of different widths.

### HEIGHT SETTING

The side cutter's height is set by adding or removing the spacers that are supplied in the component package on delivery.

#### Spacer height:

Spacer 40 mm	art.nr. 7502-001-0038
Spacer 20 mm	art.nr. 7502-001-0042
Spacer 10 mm	art.nr. 7502-001-0044
Spacer 5 mm	art.nr. 7502-001-0046
Schim set (0,1 – 2,0 mm)	art.nr. 7502-001-0230

To remove the planing knives from the side cutter, loosen the knives' lock screws that are recessed into the cutters. Use a 4 mm Allen Wrench (supplied).

 Spacers must also be placed above the cutter so that it is fixed on the spindle. Use some of the spacers that are not used for height setting. Place the thickest spacer so that it lies highest and extends a couple of millimetres over the lowest threads on the threaded bar. Then, screw on the nut on the threaded bar and tighten it firmly.

### **TEST RUN**

Always run a test piece and make subsequent adjustments. Run a straight piece through the planer at the slowest feed speed. Then measure the profile, its height and width, and subsequently adjust the cutters and the setting for the moulding knives if required.

### **GRINDING**

To recover the sharpness of the knives, you can grind the flat side of the knives. Thus you retain the same profile for the pair of knives. Always grind the knives in pairs, so that they have the same weight, otherwise vibrations could occur in the cutter. You can order a grinder from Logosol for sharpening planing and moulding knives (Tormek T7 Grinder Logosol Edition item no. 7010-000-1025, Jig for moulding knives item no. 7010-001-1012).

If the profile of the knife is damaged, this should be re-ground by a professional knife sharpener. This is a service that is normally available locally, otherwise contact Logosol.

## INSTRUCTION, SPRING PLATE

The side cutter spring plate is used when you require additional lateral pressure or when the planing/ moulding causes splinters in the timber.

- The spring plate is clamped between the chip guide plate, which is in front of the side cutter, and the screw plate with two threaded holes.
- Set the spring plate so that it touches the board of the smallest width.
- Maximum springing of the plate is 6-8 mm.
- When machining boards that varies more than 6-8 mm in width, the spring plate should not be used.
- Run the workpiece twice through the planer/ moulder if it is of very large dimensions.

## INSTRUCTION, FIXED AND VARIABLE FEED

### FIXED FEED

The fixed feed do not require maintenance. (For variable feed, see below.)

### VARIABLE FEED

**WARNING!** Do not turn the adjustment knob when the planer/moulder is not running.

### ASSEMBLY (IF THE VARIABLE FEED MOTOR IS NOT ASSEMBLED IN PLACE)

Assemble the feed motor package on the last feed roller. Make sure that the torque stay is in place. Lock this with the central screw on the roller.

### SETTING THE FEED RATE

Turn the wheel clockwise to increase the speed.

### INDICATOR DIAL FOR THE FEED RATE

The indicator dial is/must be mounted in the hub of the wheel. It works like an indicator that has a weight in one part, so the indicator moves. The black indicator shows a figure.

The indicator dial has a relative scale. See the numbers as an indicator. The higher the number, the greater the speed.

Start the planer/moulder and turn the wheel so the planer reaches minimum speed.

Remove the indicator dial and turn it so the indicator is set to zero. Then press the indicator dial in with the indicator pointing upwards towards zero.

Use the indicator dial so that you can return to the best speed for the profile you are planing.

AGIP	BLASIA 32
SHELL	A.T.F DEXRON
ESSO	A.T.F DEXRON
MOBIL	A.T.F 220
CASTROL	DEXTRON II
BP	AUTRAN DX

### If you have a 2-12 m/min (6-39 ft/min) gear:

0 on the indicator dial is 2 m/min (6 ft/min)  
8 on the indicator dial is 12 m/min (39 ft/min)

### MAINTENANCE

Fluid should be visible in the fluid level glass. The level is checked when the variator is not running.

Top up if no fluid is visible in the glass. Use oil for automatic gearboxes according to the table below, or use compatible oil.

The variator is filled with AGIP BLASIA 32 at the factory and does not normally require an oil change during its life.

The worm gear oil does not normally need changing or topping up during the life of the gear.

## MAINTENANCE

The DH410 is easy to maintain as 95% of the planer/moulder is protected against rust. The maintenance required, is mentioned below. Ensure that the power to the planer/moulder is switched off before beginning maintenance.

### After each work session:

- Clean chips from the planer/moulder. Also remove any chips from under the planer/moulder.
- Clean any resin off the table. Use mineral spirit if necessary. Lubricate the table with paraffin oil, for example.

### MAINTAIN AT REGULAR INTERVALS AS FOLLOWS

Lubricate these areas regularly:

- The feed roller bearings.
- Trapezoidal bars and their top and bottom bearings.
- The chain for setting table height.
- The chain driving the feed rollers.
- The cast iron table.

### For lubrication:

Super Flo, dry lubricant, item no 9999-000-5115.

### For cleaning plastic and rubber parts:

Silicone spray item no 9999-000-5110.

### For rust protection:

Universal oil, item no 9999-000-5105.

### For cast iron table:

Silbergleit, item no 7500-001-5067.

Check that all screws and bolt connections are tightened and that cables and electrical connectors are

in good condition.

### USING OR STORING IN COLD OR DAMP ENVIRONMENTS

If the planer will be stored in a cold or damp environment over a longer period, all corrosive parts must be treated with a rust inhibitor (Super-Flo). Cover the machine.

Water can condense in closed spaces. Check that the motors are dry inside by loosening the draining plugs. Check the control panel box. If necessary, drill a 4 mm draining hole in the bottom of the control panel box.

## PLANING/MOULDING TIPS

1. When you have finished moulding a profile that you know you will be moulding again, feed in a board of approx. 1 m (3 ft) long, then switch off the planer/moulder when this has been fed in. Lower the table and remove the board. Next time you are going to mould this profile, the board can be used as a template for both cutters and fences. Also note on the test board which shims and knives you used for it, as well as the position of the moulding knives in the horizontal cutter.
2. You can experiment with adjusting the pressure on the feed rollers yourself. Note the basic settings before you start, so you can always return to them. The springs must normally be tensioned more on the right-hand side, particularly if small objects are machined. The feed rollers must be balanced on the object, and not press more on either side.
3. When a small amount of timber is to be moulded, the setting becomes easier and often quicker if you first plane one side of the workpiece before you mount the moulding knives, and then turn the board so that the planed side faces the machine table while the sides are being milled. This means that you only have to set the height on the side cutter once when making tongue and groove.

# LOGOSOL DH410 Two-sided planer/moulder

## Produce all wood products you need with the DH410

Starter package with knives for the two-sided planer/moulder DH410



**You can do all this and much more with the starter package!**

The package includes: 10 pairs of moulding knives of HSS, and 2 pairs of knife gibs.

The starter package of moulding knives enables you to produce a wide range of profiles. Our experience tells us that these profiles will without doubt be very useful to you.

**GET STARTED AT ONCE! 10 pairs of moulding knives that will be very useful to you!**

**Starter package with knives and gibs for the DH410**

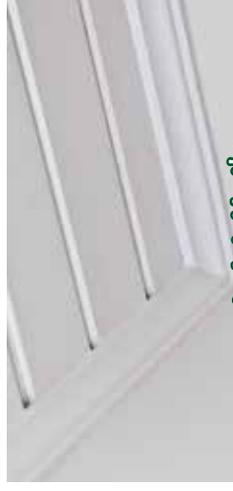
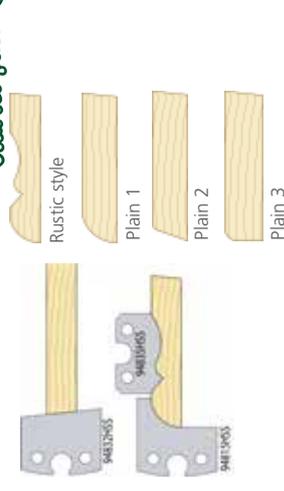
TB90-011

**5.090,-**

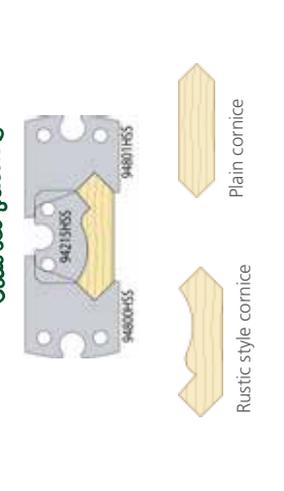
### Examples of wood profiles you can make with the knives in the starter package



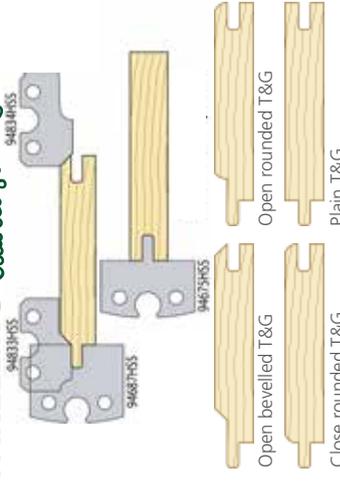
#### SKIRTING BOARDS



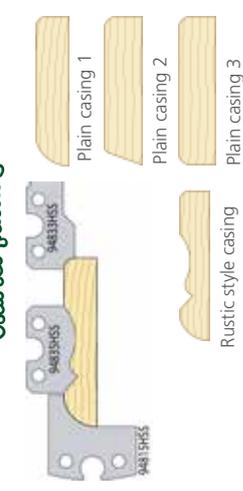
#### CORNICES



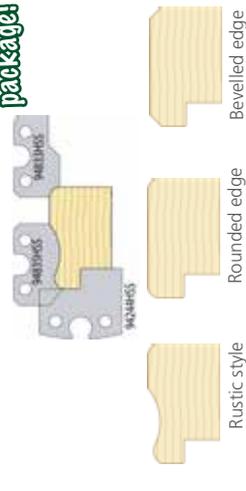
#### PANELLING



#### CASING



#### WAINSCOT MOULDINGS

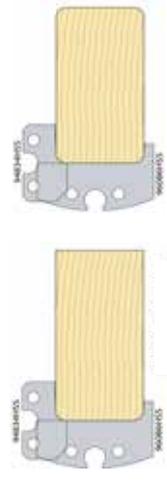


#### Make joists that are up to 410 mm

**Included in the starter package!**

#### JOIST AND DECKING

Produce joists and decking of different dimensions. Width: Up to 410 mm. Height: Up to 60 mm.

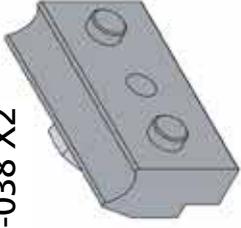
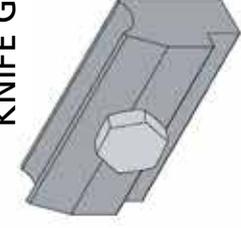


BASIC PACKAGE DH410 ITEM NO: TB90-011

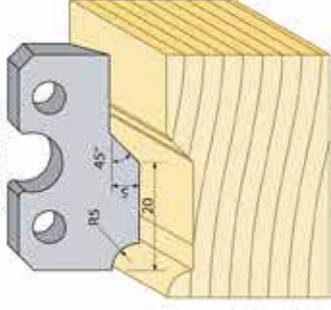
10 pairs of moulding knives of HSS + 2 pairs of knife gibbs for making:

- Casing
- Rounded panelling
- Bevelled panelling
- Wainscot moulding
- Cornice
- Skirting board
- Joists & Decking

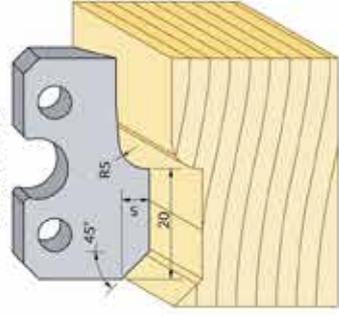
KNIFE GIBB -038 X2



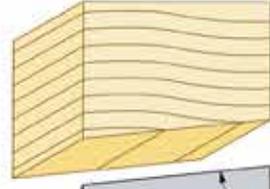
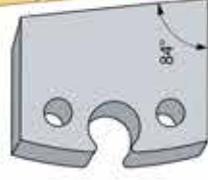
94833HSS



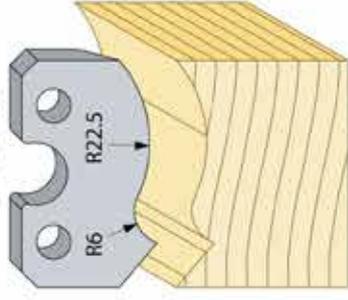
94834HSS



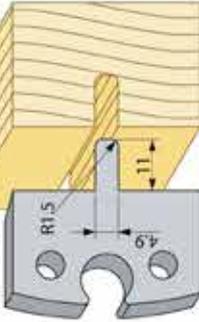
94832HSS



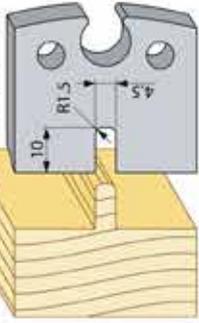
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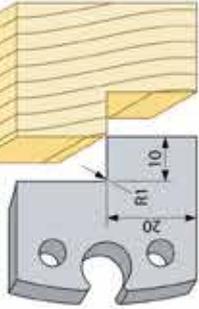
94675HSS



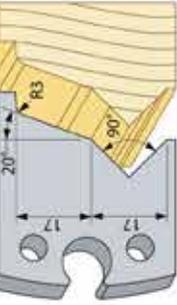
94687HSS



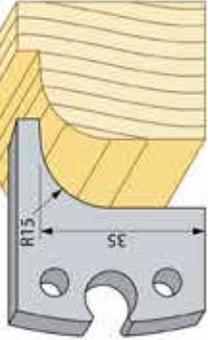
94244HSS



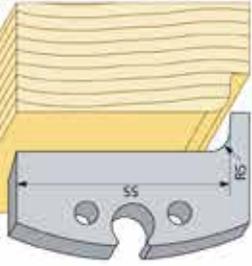
94800HSS



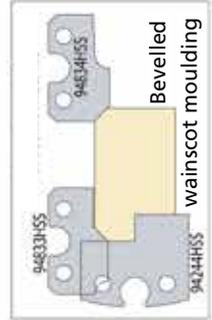
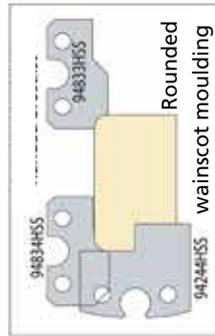
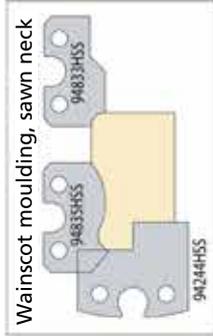
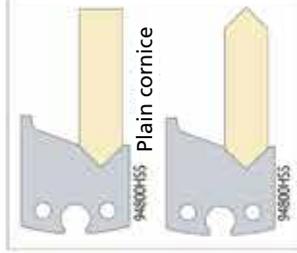
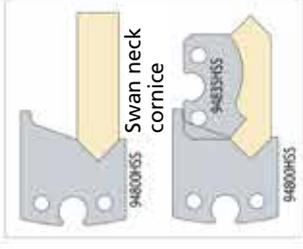
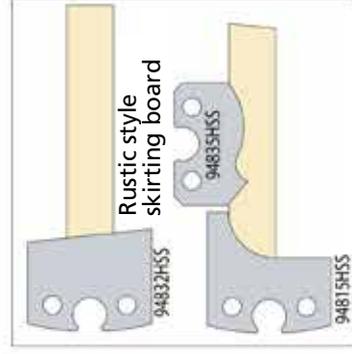
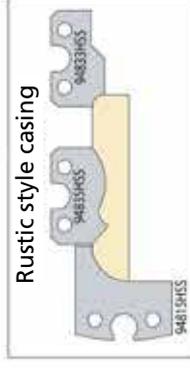
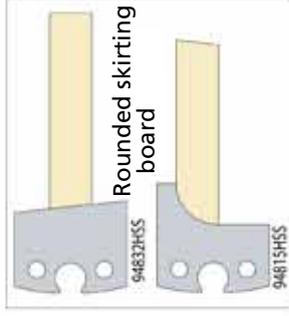
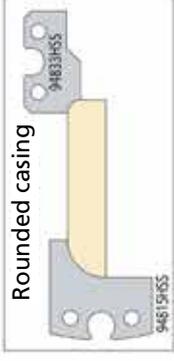
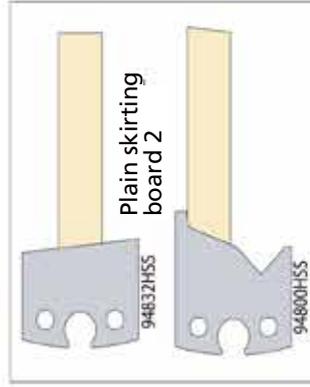
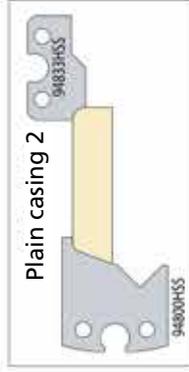
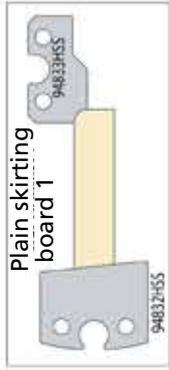
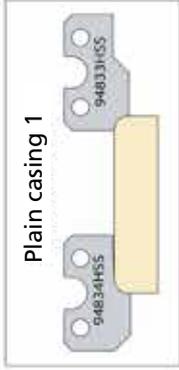
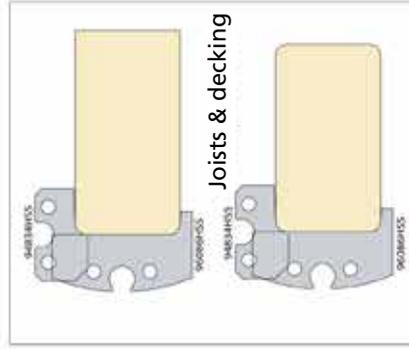
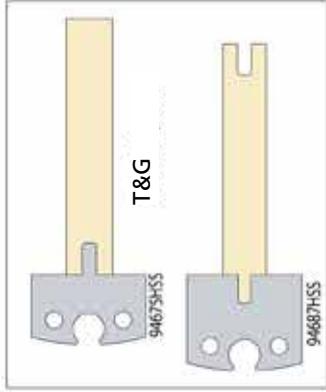
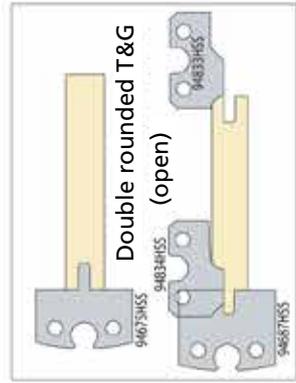
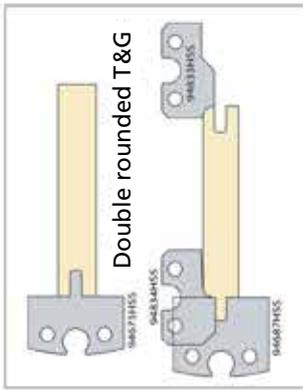
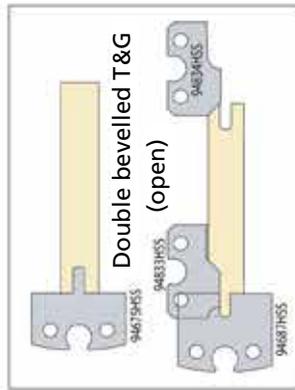
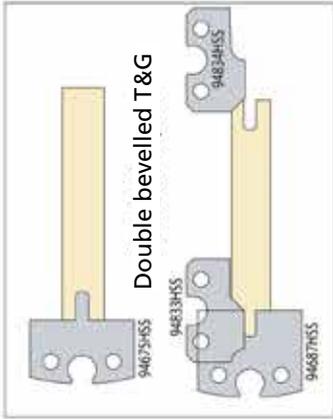
94815HSS



96086HSS



# Knife mounting in the LOGOSOL DH410



## WIRING DIAGRAM

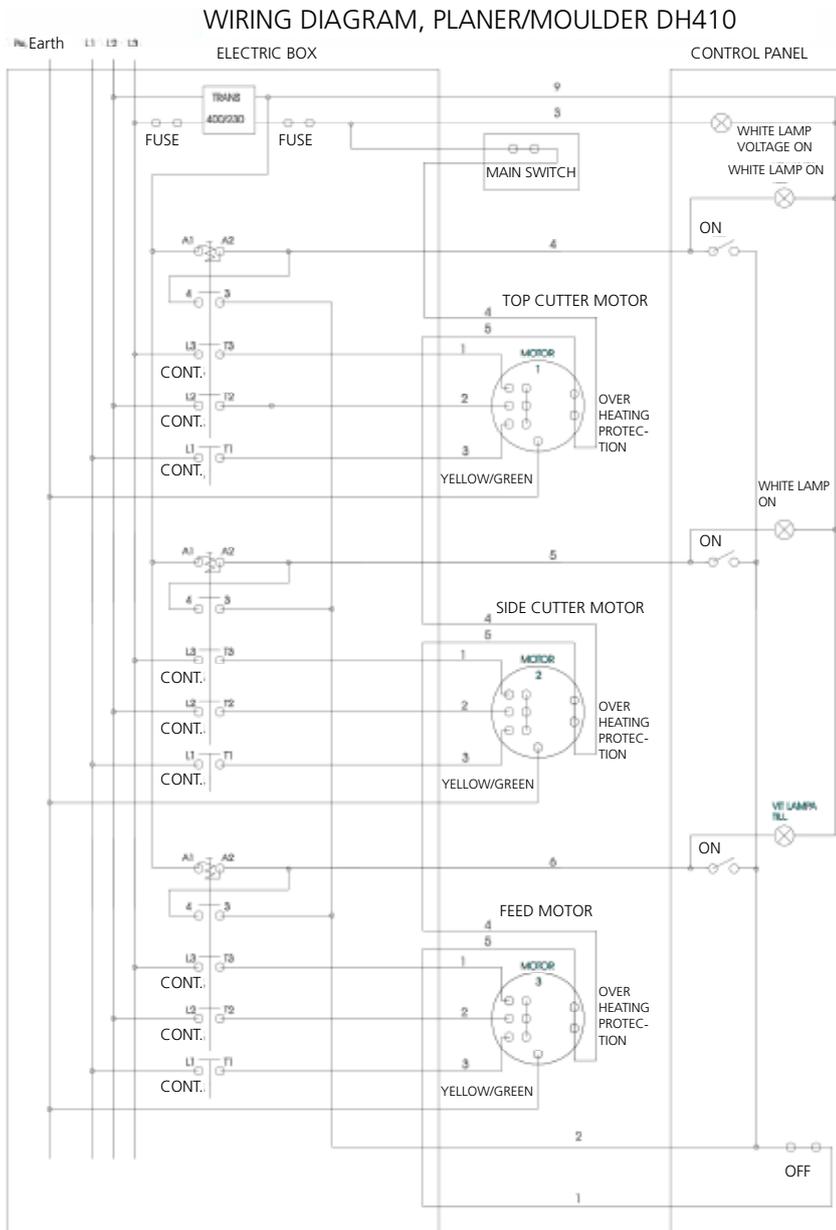
### WIRING DIAGRAM

- 

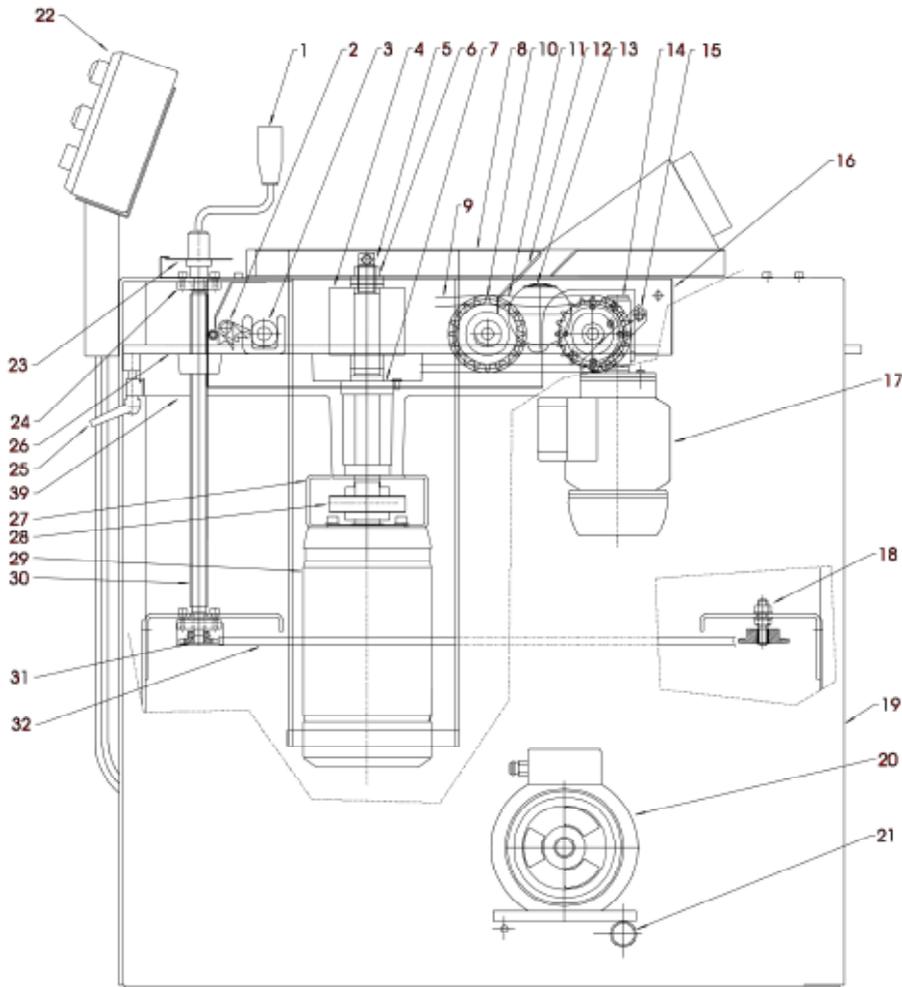
Lethal voltage. Incorrect connection is potentially fatal.
- 

Note that you need authorization to open or intervene in the electrical equipment.
- 

Ensure that the power supply is switched off before you open the system.



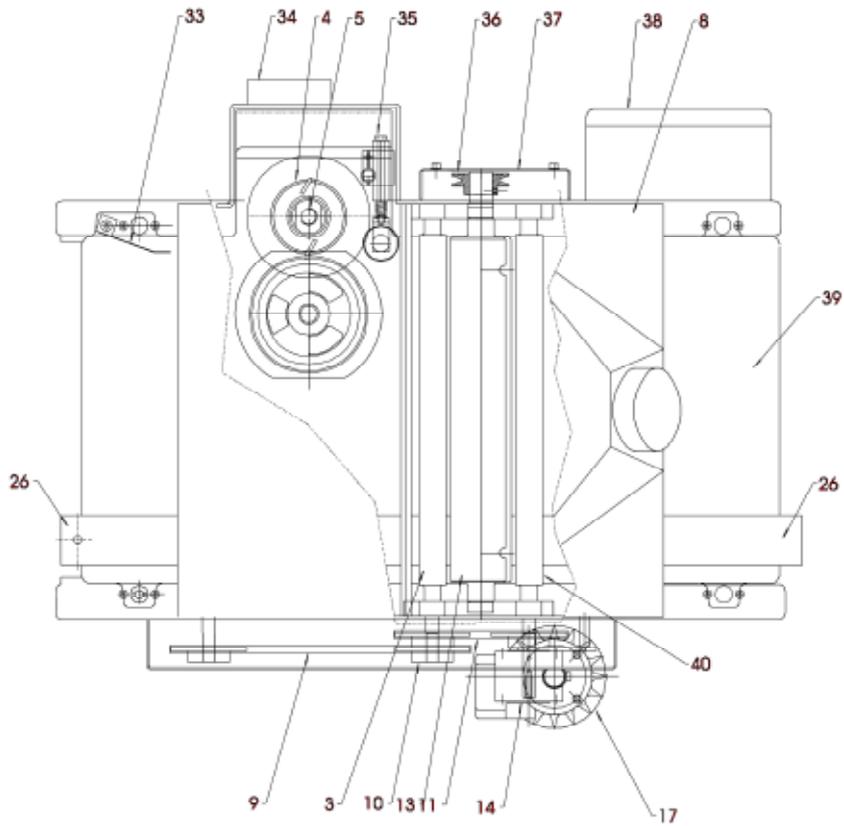
**OVERVIEW IMAGES**



- 1/ Crank for height settings
- 2/ Anti-kick-back device
- 3/ in-feed roller
- 4/ Side cutter
- 5/ Side cutter spindle
- 6/ Spindle nut
- 7/ Spindle bearing
- 8/ Cover
- 9/ Chain for in-feed roller
- 10/ Four chain sprockets, feed
- 11/ Chain for out-feed roller
- 12/ Chip guide plate top cutter
- 13/ Top cutter
- 14/ Worm gear, feed
- 15/ Torque bar
- 16/ Transmission cover
- 17/ Feed motor

- 18/ Tensioning wheel for machine table chain
- 19/ Frame
- 20/ Top cutter motor
- 21/ Motor bracket
- 22/ Control panel
- 23/ Height scale
- 24/ Top bearing, trapezoidal bar
- 25/ Lock handle for fence
- 26/ Fence
- 27/ Belt transmission cover
- 28/ Belt transmission, side cutter
- 29/ Side cutter motor
- 30/ Trapezoidal bar
- 31/ Sprocket, trapezoidal bar
- 32/ Chain

## FROM ABOVE



- 33/ Front spring plate
- 34/ Chip duct, side cutter
- 35/ Pressure roller
- 36/ Belt transmission, top cutter
- 37/ Belt transmission cover
- 38/ Electric box
- 39/ Machine table
- 40/ Out feed roller (rubber roller)

## TECHNICAL DATA

<b>DH410</b>	
Length and width	1000 x 840 mm
Height	1230 mm
Weight	225 kg
<b>2-SIDED PLANING/MOULDING</b>	
Width	325 mm (12 7/8")
Height	Max 100 mm (3 15/16")
<b>PLANING</b> (assembly required)	
Width	410 mm (16")
Height	260 mm (10")
<b>TOP CUTTER</b>	
Diameter	72 mm (2 8/10")
Width	410 mm (16")
Output	3 kW
Rotational speed	6000 rpm
Take-off when planing	0-8 mm (0-3/10")
Take-off when moulding	Max. 10 mm (4/10")
<b>SIDE CUTTER</b>	
Diameter of spindle axel	30 mm (1 2/10")
Cutter height	Max. 100 mm (3 15/16")
Diameter	Max. 140 mm (5 5/10")
Output	3 kW (Hk)
Rotational speed	6000 rpm
Cutting depth	Max. 30 mm (1 2/10")
<b>SUPPLIED SIDECUTTER</b>	
Type	TB90
Diameter, body	90 mm (3 5/10")
Height, body	40 mm (1 6/10")
Cut, type and width	Planing knife, HSS, 50 mm (2")
<b>FEED, PLANET VARIATOR</b>	
Output	0.18 kW (1 hp)
Feed rate	6m/min (19 1/2 ft/min), or optional 2-12 m/min (6-39 ft/min)
<b>ELECTRIC SYSTEM</b>	
Total output	6.2 kW (22 hp). All motors are equipped with overheating protection.
Electrical connection	3-phase, 400 V, 16 A, 16A fuses are sufficient for less demanding production.



**Declaration of conformity  
The Machinery Directive 2006/42/EG**

Annex 2, section A  
AFS 1994:48, Annex 2, section A

Manufacturer  
MOReTENS AB, M10  
Lugnviksvägen 147  
SE-831 52 ÖSTERSUND  
SWEDEN

hereby guarantees that the MOReTENS DH410  
Planer/moulder, Nr 360-000 fulfills the requirements  
in AFS 1994:48 and 98/37/EG, the EMC directive  
2004/108/EG, standard EN61000-6-4 and LVD direc-  
tive 2006/95/EG

Östersund 2010

Bo Mårtensson, CEO



***Swedish wood processing products***

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