



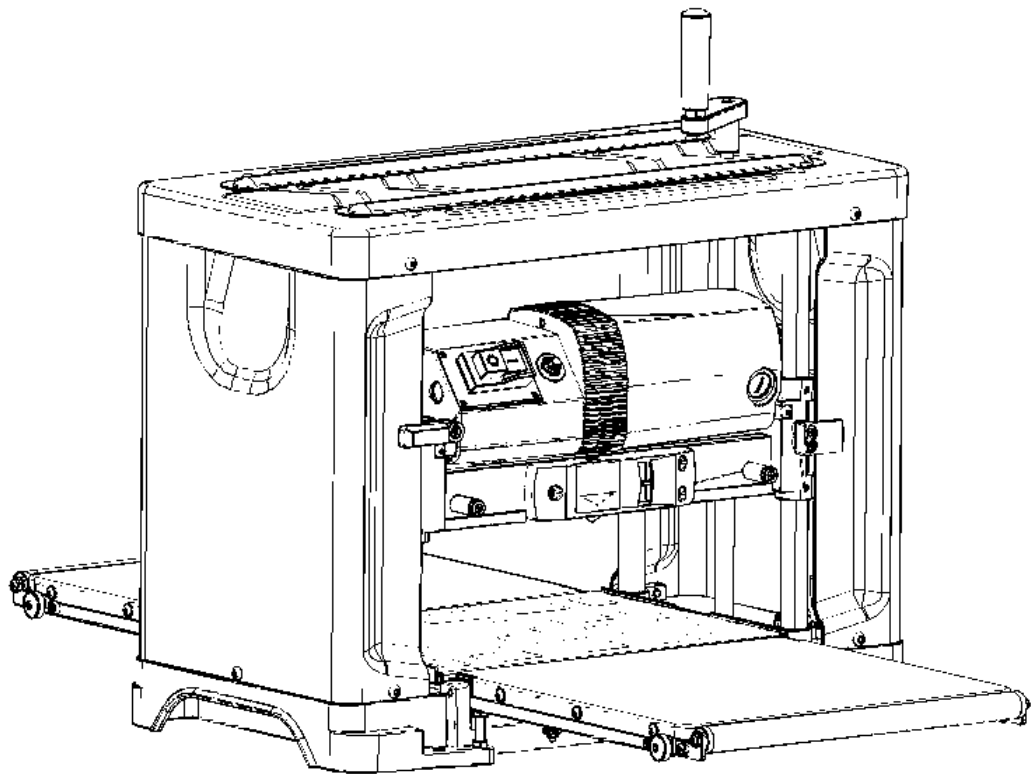
EXMAC

Thickness planer

Portable

D330

Original Operating Instructions



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Original Operating Instructions Version 2024_V01_EN

EX-D330



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1 General information

1.1 Information about this manual

This manual enables safe and efficient use of the machine. It contains instructions on safety, assembly, operation and maintenance, and spare parts lists. The manual must be kept in the immediate vicinity of the machine and passed on if the machine is sold.

NOTICE



Failure to read and observe these operating instructions may result in serious injury. Careful use and handling can significantly reduce the risk of injury. Observing the safety information and instructions in these operating instructions is a basic requirement for safe working.

1.2 Explanation of symbols

1.2.1 Safety notices

Safety notices in this manual are marked with colours and symbols. They are introduced with signal words that indicate the level of hazard.

DANGER



Indicates a high risk and an immediate danger to people!

Failure to observe this notice may result in serious, irreversible injuries or even death.

WARNING



Indicates a medium risk and a recognizable danger to people!

Failure to observe this notice may result in serious, irreversible injuries or even death.

CAUTION



Indicates a low risk and a recognizable danger to people!

Failure to observe this notice may result in minor, reversible injuries.

NOTICE



Indicates a possible material damage or an important information.

1.2.2 Mandatory signs

The following mandatory signs in the operating instructions and on the machine indicate safety aspects that must be observed:

Sign	Meaning	Sign	Meaning	Sign	Meaning
	Wear eye protection		Wear ear protection		Wear respiratory protection
	Wear a face shield		Wear foot protection		Refer to instruction manual
	Disconnect mains plug from electrical outlet		Wear protective clothing		





1.2.3 Prohibition signs

The following prohibition signs on the machine indicate activities that are prohibited:



Sign	Meaning	Sign	Meaning
	No reaching in		Do not wear gloves

1.2.4 Warning signs

The following warning signs in the operating instructions indicate specific hazards:

Sign	Meaning	Sign	Meaning
	Electricity hazards		Sharp elements
	Risk of fire		General warning

1.2.5 Other signs

Sign	Meaning	Sign	Meaning
	Environmentally hazardous substances		Do not dispose of in household waste

1.2.6 Warning labels on the machine

WARNING



Risk of injury if warning labels are ignored!

Warning labels on the machine are for safety reasons. Failure to observe them can lead to injuries.

- Observe warning labels on the machine.
- Keep warning labels legible.
- If warning labels are damaged or illegible, contact the dealer. He can arrange for replacement.

The following warning labels can be found on the machine:

Sign	Meaning	Sign	Meaning
	Shift speed only while machine is running.		Read the operating instructions before opening the cover. Disconnect the machine from the power supply before carrying out maintenance work or removing chips.
Sign	Meaning		
	General instructions for the safe operation of the machine.		

The warning labels are located in the following places on the machine:

Front	Rear

1.3 Limitation of liability

All information and instructions in this manual have been prepared in accordance with applicable standards and regulations.

In the following cases, the manufacturer or importer is not liable for damages:

- Failure to observe this manual
- Other use than the intended use
- Unauthorized modifications or technical changes
- Use of unauthorized spare parts

1.4 Warranty

This product is subject to the statutory warranty according to Austrian law from the time the product is handed over.

There is no basic claim to replacement or rescission.

In the event of a complaint, the responsible dealer must be contacted in order to agree on how to proceed.

1.5 Terms of guarantee

Neureiter GmbH grants a five-year manufacturer's guarantee on this product from the date of purchase.

If defects in material or workmanship occur during the intended use of the machine, the dealer needs to be contacted. After submission of a copy of the invoice, the defect in question will be verified in coordination with the service department and, as required, it will be repaired or the product will be replaced. The organisation of a possible transport (after consultation with the Neureiter service department) lies within the responsibility of the customer. The packaging must be safe for transport.

If it is determined that the complaint lies outside the granted terms of guarantee (e.g. in the case of defects arising from normal wear, improper use, power overload, overvoltage, unauthorized modifications of the machine, use of force, failure to observe the safety precautions or own attempts of repair), the customer has to pay the full costs for transport and repair.

Only the terms of guarantee cited here are valid, any side agreements are not recognised unless they are presented in written form and signed (documented) by the manufacturer/importer. No claim whatsoever arises from verbal agreements that have not been documented.

The present terms of guarantee are valid in German-speaking countries; elsewhere different terms of guarantee may apply. In this case, the local dealer can provide information.

The above guarantee in no way restricts statutory warranty claims.

2 Safety

2.1 Intended use

The **EXMAC thickness planer D330** is used for thickness planing of preplaned wood that is at least 250 mm long, 19 mm wide and 3.175 mm thick.

Material that can be processed with the thickness planer:

- solid wood (all types)

The machine is designed exclusively for its intended use. The intended use also includes the observation of all instructions given in this manual. Any use other than the intended use is not permitted. The machine is only suitable for private use, not for industrial use. The machine is designed for indoor use. The machine must be operated with a suitable dust collector.

The thickness planer is designed for a service life of 10 years.

The minimum age for using the machine is 16 years.

2.2 Basic health and safety instructions

2.2.1 Workplace safety

WARNING



Risk of injury due to inadequate safety conditions at the workplace!

Messy, unlit or poorly ventilated work areas and slippery floors can lead to accidents.

- Keep the work area clean and well lit.
- Ensure adequate ventilation.
- Keep the immediate work area and floor free from dirt and leftover pieces.
- Ensure there is a sufficiently large work space around the machine.

WARNING



Risk of fire due to flying sparks!

Flying sparks can ignite dust, vapours or chips.

- Keep the work area and floor clean.
- Avoid explosive environments where flammable liquids, gases or dusts are present.

2.2.2 Electrical safety

WARNING



Danger to life due to electric shock!

In case of unsuitable plugs, physical contact with earthed surfaces, water entering the machine, damaged or entangled cables and lack of earthing, there is a risk of electric shock.

- Use suitable plugs and sockets.
- Do not modify plugs.
- Do not use adapter plugs.
- Avoid physical contact with earthed surfaces (pipes, heaters, etc.).
- Protect the machine from moisture, vapours, wetness and rain.
- Only touch the machine and its plug with dry hands.
- Avoid misusing the power cord (do not pull on the power cord to remove the plug, for example).
- Keep the power cord away from heat, oil, sharp edges and moving parts.
- Avoid tangling the power cord.
- Use a suitable residual-current circuit breaker.
- Only connect a type F plug to an earthed socket.

2.2.3 Personal safety

WARNING



Risk of injury due to missing experience and carelessness!

Missing experience, carelessness and distraction can lead to serious injuries.

- Before using the machine for the first time, study the subject and ask qualified persons for training.
- Be careful and attentive when using the machine.
- Do not use the machine if you are tired or under the influence of drugs, alcohol or medication.
- Keep children and other people away while using the machine.

WARNING



Risk of injury due to unintentional start-up and use by third parties!

There is a risk of injury if the machine is started unintentionally or if it is started by inexperienced persons or children.

- Protect the machine from unintentional start-up and operation by third parties (especially children).
- Only leave the machine if it is switched off and at a standstill.
- Disconnect the machine from the power supply when not in use.
- Before connecting the machine to the power supply and before transporting the machine, make sure that the machine is switched off.
- Only allow the machine to be used by persons who are familiar with it and who have read this manual.

WARNING



Risk of injury due to missing personal protective equipment, unsuitable clothing and abnormal posture!

Injuries can occur due to missing protective equipment and incorrect posture. Loose clothes, jewellery or long hair can be caught and drawn into moving parts of the machine, which can lead to injuries.

- Observe the specifications for personal protective equipment in these operating instructions and wear personal protective equipment.
- Wear safety glasses or a face shield.
- Wear suitable clothing.
- Do not wear loose clothing and jewellery.
- Wear a headgear or hairnet.
- Avoid wearing gloves.
- Maintain a good posture, ensure secure footing and maintain balance at all times.

WARNING



Health risk due to dusts!

During woodworking, harmful dusts can be produced causing serious respiratory diseases.

- Only work in well-ventilated rooms.
- Wear respiratory protection.
- Avoid contact with dust.
- Use suitable dust collectors and air filtering systems.
- Clean exposed body parts with soap and water.

WARNING



Risk of injury due to tipping over!

If the machine is climbed onto or is unstable, there is a risk that it will tip over and cause injuries. Objects placed on the machine could fall and lead to injuries.

- Do not climb onto the machine.
- Make sure the machine is stable.
- Screw the machine to the installation surface.
- Avoid storing objects on or around the machine.

WARNING



Risk of injury when ignoring safety rules!

Ignoring the safety rules and careless behaviour can lead to serious injuries within a fraction of a second.

- Always follow the safety rules, even if you have a lot of experience with the machine.

WARNING



Risk of injury due to adjusting tools, spanners or loose objects that have not been removed!

Adjusting tools or spanners in a rotating part of the machine can cause injuries. Loose objects on the machine which start to move when the machine is switched on can cause injuries.

- Before switching on the machine, remove loose objects, adjusting tools and spanners from the machine.

2.2.4 Use and care of the machine

WARNING



Risk of injury due to unintended use and overload!

There is a risk of injury if the machine is used for other purposes than those intended or if the machine is overloaded.

- Only use the machine for its intended use and within the specified performance range.

WARNING



Risk of injury from using the machine despite defective components!

Damaged machines or components pose a risk of accidents.

- Before using the machine, ensure that it is intact and functional.
- Before using the machine, check whether any parts are broken or damaged.
- Only use the machine with intact components and switches.
- Check cables regularly for damage.
- Have damaged parts repaired immediately.
- If problems arise, switch off the machine immediately and contact the dealer if necessary.

WARNING



Risk of injury due to improper care and maintenance of machine and knives!

Improperly maintained machines and knives pose a risk of accidents. Slippery handles can lead to a loss of control.

- Follow the maintenance instructions in this manual.
- Maintain the machine with care.
- Only use knives that are suitable for the machine.
- Keep knives sharp and clean.
- Keep handles and gripping surfaces dry, clean and free from oil and grease.

WARNING



Risk of injury due to unintentional start-up!

There is a risk of injury if the machine starts accidentally when performing adjustment, cleaning or maintenance work or when removing jams.

- Before carrying out the above-mentioned activities, switch off the machine and disconnect it from the power supply.



2.2.5 Service

WARNING



Risk of injury due to improper repair.

Improper repair can impair the safety of the machine and pose a risk of injury.

- Have the machine repaired only by qualified personnel and only with original spare parts.

2.3 Personal protective equipment



Ear protection: Always wear an ear protection when using the machine.



Safety glasses / Face shield: Always wear at least safety glasses when working on the machine. If necessary, use a full eye protection or face shield, since normal eyeglasses are usually only shock-resistant and safety glasses only protect the eyes. A face shield protects eyes and face.



Protective footwear: Wear protective footwear and make sure the floor is non-slip.



Respiratory protection: When processing different types of wood, exotic wood-based and other materials, and when performing certain tasks like sanding, sawing or drilling, dusts are produced that are harmful to health. Operate the machine only in well-ventilated areas and wear respiratory protection. Use a suitable dust collector and, if necessary, an air filtering system.

2.4 Operator obligations

The operator is the person who operates the machine for commercial or private purposes.

The operator must keep the machine in good condition. He undertakes to check the safety devices for correct functioning and to leave them on the machine. Any structural change to the machine is prohibited. Commercial operators must ensure that the legal obligations regarding occupational safety are complied with.

WARNING



Risk of injury due to use by insufficiently qualified persons!

Insufficiently qualified persons cannot correctly assess the risks involved in using the machine. There is a risk of serious or fatal injury.

- Observe the chapter on basic health and safety instructions and the warning labels in these operating instructions and on the machine.
- Before using the machine for the first time, obtain information on the subject and ask qualified persons for training.

2.5 Safety devices

Safety devices serve to protect persons and material. Without intact safety devices serious injuries can occur.

WARNING

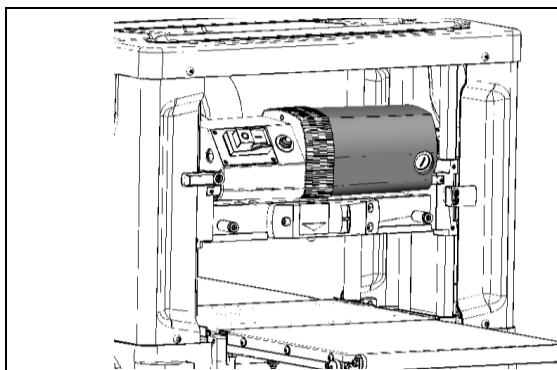


Risk of injury due to defective or missing safety devices!

Defective or missing safety devices do not fulfil their purpose. Serious injuries can result.

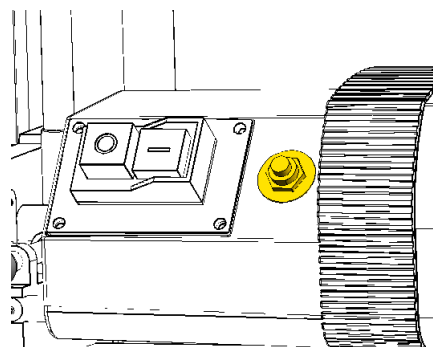
- Only operate the machine with functioning safety devices.
- Switch off the machine immediately if safety devices are defective or removed.
- Only use additional equipment installed by the operator with prescribed safety devices.

Overview of safety devices



Motor cover

The motor cover prevents access to the motor and provides protection against burns.



Overload protection

The overload protection is triggered as soon as the current exceeds 10A. To restart, press the overload protection switch and then the ON switch.

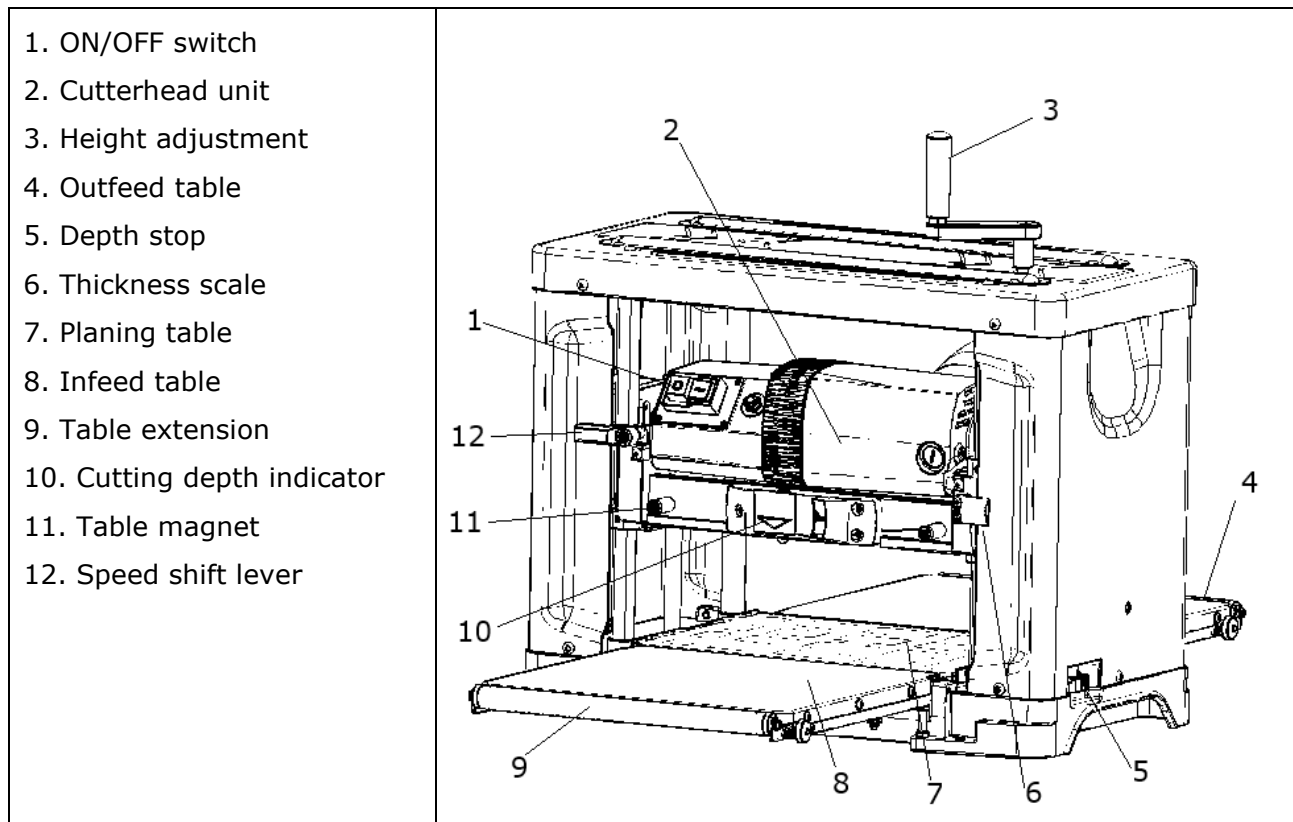
3 Machine description

3.1 Functional description

The thickness planer is used for machining wood. It is used to plane a wooden workpiece to the desired thickness while simultaneously creating a smooth and even workpiece surface.

The workpiece is fed into the machine on the infeed side and drawn into the machine by an infeed roller. At the centre of the machine is a cutterhead with helically arranged reversible knives that plane the workpiece with an adjustable cutting depth. The workpiece is fed out through the outfeed roller at the rear of the machine, where it is removed by the operator and, if necessary, fed in again at the infeed side. The process is repeated until the desired result is achieved.

3.2 Description of the planer



3.3 Technical data




Dimensions (tables folded up, crank handle removed)	Length	355 mm
	Width	560 mm
	Height	440 mm
Max. dimensions (extensions out, crank handle mounted)	Length	approx. 1150 mm
	Width	560 mm
	Height	approx. 550 mm
Weight	Gross / net	42 kg / 35 kg
Drive	Type of drive	Induction motor, single-phase
	Operating mode	S6
	Voltage	230 Volt
	Power	1,500 W (2 HP)
	Frequency	50 Hz
	Current	7.5 A
	Motor speed	23,000 rpm
Cutterhead	Cutterhead speed	10,000 rpm
	Cutterhead diameter	50.8 mm
	Hard metal knives	4-sided - 26 pieces
Feed rate (speed)	Low	5.5 m/min.
	High	8 m/min.
Workpiece	Max. workpiece size	330 x 152 mm
	Minimum length	250 mm
	Minimum width	19 mm
	Minimum thickness	3.175 mm
Cutting depth	Max. with 330 mm	1.6 mm
	Max. with 152 mm	3.2 mm
Dust collection port	Max. diameter	100 mm
	Diameter with included adapter	63.5 mm
Noise emission	Sound pressure level	85.20 dB(A)
	Sound power level	90 dB(A)



The measurement is carried out in accordance with the standards EN ISO 3746:2011 & EN ISO 4871:2009.

The measured emission level cannot reliably be used to determine the actual noise level in the workplace, since factors such as the duration and type of work, the workshop size and the existence of other sources of noise (e.g. machines running at the same time) have a decisive influence on the noise level. The acceptable exposure rates may vary from country to country. An ear protection must be worn when using the machine.

Nameplate

	
Modell / Type / Serie(s)	D330 AT-13-2
Leistung / Power Input	1.500 W 8,7 A Phase 1 230 V 50 Hz
Techn. Daten / Specification	Max. cut: 330 mm x 1,6 mm or 152 mm x 3,175 mm
	Motor speed 23.000 rpm Cutterhead speed 10.000 rpm
Baujahr / Year	
Gewicht / Weight	35 kg
Serien-Nr. / Serial No.	
Neureiter Maschinen GmbH Kellau 167, AT-5431 Kuchl	
 	

3.4 Installation site requirements

Requirement	Recommendation
Installation site	Fasten the machine near a power source (type F socket) on a solid, level and stable installation surface (workbench, table) (see chapter "Assembly and installation").
Lighting	Pay attention to good lighting.
Ambient temperature	+10°C to +32°C
Ventilation	Ensure adequate ventilation. Use a dust collector.
Working height	Comfortable working height depending on user's body size.
Working space	Make sure there is enough space on the infeed and outfeed sides of the machine for handling the workpieces.

3.5 Electrical equipment

WARNING



Danger to life due to electric current!

When touching live parts, there is an immediate danger to life due to electric shock. Damaged insulations or electrical components can be life-threatening.

- Have work on the electrical system components carried out only by qualified electricians.
- Before working on electrical system components, switch off the machine and pull the power plug. Do not leave the power plug unattended and secure it against being plugged in.
- In case of damaged insulations, switch off the machine immediately and have them repaired.
- Keep the power cord away from heat, oil, sharp edges and moving parts.

WARNING



Danger to life due to electric current!

If a wrong extension cord is used, there is a risk of fire due to overheating, and danger to life due to an electric shock.

- Avoid using an extension cord.
- If the use of an extension cord is unavoidable, make sure that the extension cord is designed for the intended purpose. (In case of doubts, choose a short, thick cord or contact a qualified electrician).

WARNING



Danger to life due to electric current!

If the earthing conductor is connected incorrectly, there is an immediate danger to life due to electric shock.

- Connect the earthing conductor (green-yellow sheathed) correctly.
- Keep the earthing conductor away from live terminals when changing the cable or plug.

NOTICE



Electrical cables and sockets must comply with local electrical codes!

- Observe electrical codes.
- In case of doubt, contact a qualified electrician.

NOTICE



In order to operate the machine, a suitable household 230 V type F socket is required.

If the machine is operated outside of this voltage, it may run irregularly or may be damaged.

- Use a suitable type F socket.
- Observe the indications in these operating instructions.

4 Transport, packaging and storage

4.1 Transport dimensions

Dimensions	Length	approx. 650 mm
	Width	approx. 420 mm
	Height	approx. 570 mm
Weight	Gross	43.5 kg

4.2 Notes on storage and transport

NOTICE



Possible damage to the machine due to incorrect storage!

If the machine is stored incorrectly, parts of the machine can be damaged.

- Store the machine in a dry, dust-free environment.
- Keep the machine away from aggressive media.
- Protect the machine from excessive sunlight.
- Make sure that the ambient temperature does not exceed 32°C.
- Before assembly, give the machine sufficient time to adapt to the temperatures at the installation site.

NOTICE



Possible damage to the machine due to incorrect transport!

If the machine is transported incorrectly, parts of it may be damaged.

- Follow the instructions on the machine's packaging.
- If a machine that has already been assembled is to be transported: Remove the dust collection port, mount the table magnets (if necessary), fold up the tables, remove the crank handle on the top (if necessary).

4.3 Notes on packaging

The packaging is intended to protect components from damage. Only remove the packaging shortly before assembly.

NOTICE



Danger to the environment due to incorrect disposal of packaging material!

Incorrectly disposed of packaging material can damage the environment.

- Dispose of packaging material in accordance with applicable regulations.

4.4 Unloading and unpacking

WARNING



Risk of crushing when unloading the machine!

The machine is heavy. When unloading, there is a risk of body parts being crushed.

- Unpack the machine with the help of a second person.
- Make sure that no limbs are under or between machine components.
- Be careful when unloading the machine.

WARNING



Danger of cutting!




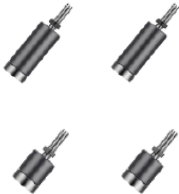




The knives are very sharp. In case of contact, there is a danger of cuts.

- Keep hands, fingers and other parts of the body away from the knives.
- Be particularly careful when handling near the knives.

Unpacking the machine

1. Before unpacking, check the box for damages.
2. Carefully remove the machine and other parts from the box.
3. Remove the packaging material.
4. Lay out all parts on a clean work surface.
5. Remove all protective materials.
6. Moisten a cloth with a suitable cleaning agent and use it to remove coatings from all machine parts except the cutterhead.
7. Check the content of the delivery for completeness.
Notice: Some of the parts shown may already be installed.
8. If any parts are missing, contact the dealer.
9. Do not start up the machine until all parts are present and assembled.
10. If there are still residues of the oil film from the manufacturing process on the cutterhead, clean the cutterhead before starting up. See chapter "Cleaning the cutterhead".

4.5 Transport package content

		
1x thickness planer	1x dust collection port 100 mm	1x adapter 100 mm to 63.5 mm
		
1x elbow adapter	1x crank handle with socket head screw	2x long table magnet 2x short table magnet
		
4x star knob screw	1x set of combination spanners (10 mm, 8 mm, 7 mm)	1x set of hex keys (4 mm, 3 mm, 2.5 mm, 2 mm)
		
1x star head T-bar key		

5 Assembly and installation

WARNING



Risk of injury due to unintentional start-up!

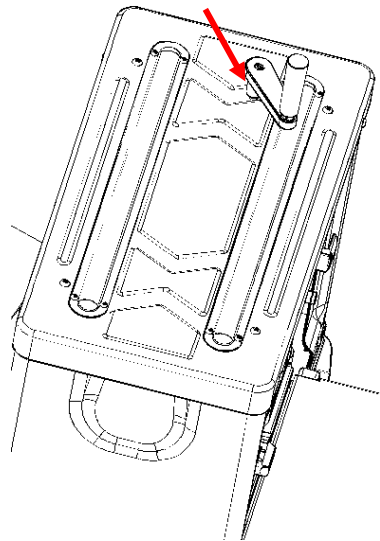
There is a risk of injury if the machine starts accidentally during assembly.

- Keep the machine switched off and disconnected from the power supply during assembly.

The machine is delivered largely pre-assembled. Only a few parts need to be assembled:

5.1 Attaching the crank handle for height adjustment

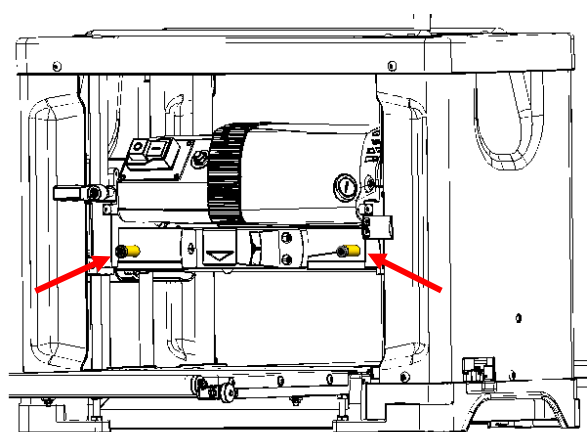
1. Insert the crank handle on the top of the machine.
2. Fasten the crank handle with the supplied socket head screw.
3. Tighten the screw with the supplied hex key.



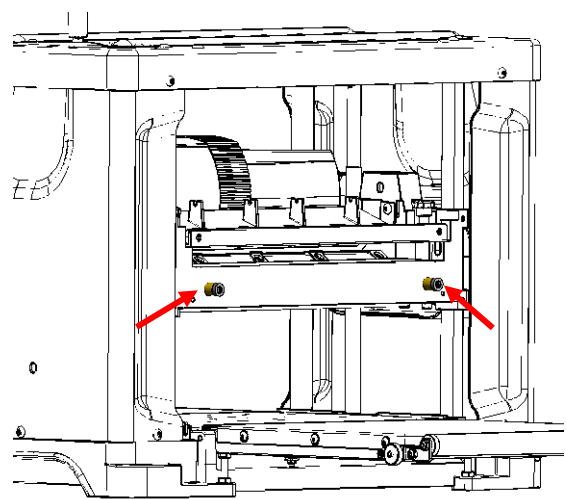
5.2 Mounting the table magnets

The infeed and outfeed tables can be folded up for transporting the machine or for adjustment procedures. The supplied table magnets hold the tables in position when they are folded up. Mount the table magnets as follows:

1. Fold the tables down.
2. Insert the two long table magnets into the holes on the front of the cutterhead unit.
3. Carefully tighten the table magnets.

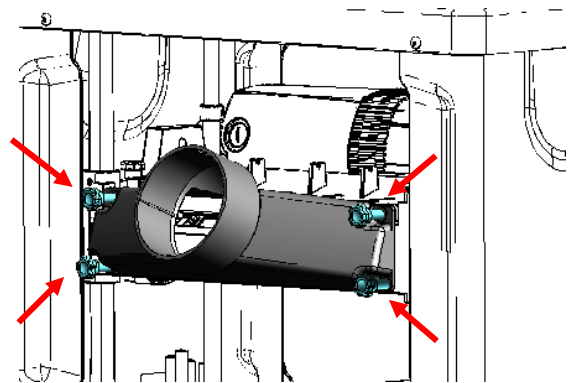


4. Insert the two short table magnets on the rear side of the cutterhead unit.
5. Carefully tighten the table magnets.



5.3 Attaching the dust collection port

1. Fasten the dust collection port (angle upwards) with four star knob screws on the cutterhead.
2. If necessary, insert the elbow adapter.
3. Connect a 100 mm dust collection hose.
4. If using a hose with a diameter of 63.5 mm, insert the supplied adapter into the dust collection port or the elbow adapter.



NOTICE



Notes on the dust collector!

A dust collector is mandatory when using this machine.

- Preferably use a big dust collector with a hose with a diameter of 100 mm (no adapter required).
- Alternatively, use a dust collector with cyclone with a 63.5 mm port (supplied adapter required).

5.4 Work ergonomics

CAUTION



Physical impairments due to incorrect posture and incorrect positioning of the machine!

Incorrect positioning of the machine and unsuitable posture can lead to posture problems and rapid fatigue, which may increase the risk of accidents.

- Maintain a good posture, ensure secure footing and maintain balance at all times.
- Position the machine at a comfortable height.
- Pay attention to an ergonomic posture.

5.5 Mounting on table or workbench

NOTICE



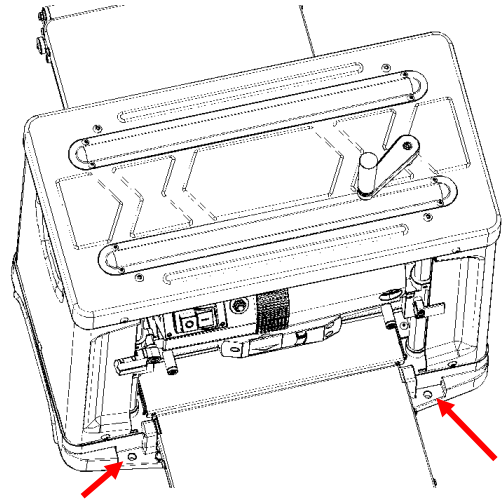
Instructions for mounting!

The machine may only be operated if it is screwed to the installation surface (table, workbench, etc.).

- Screw the machine to a solid and level installation surface that has a sufficient load capacity.

The machine is equipped with 2 holes with a diameter of 9.5 mm on the infeed and outfeed sides (base thickness approx. 12.7 mm) with which the machine is attached to the installation surface.

1. Screw the machine at the front and the back to the installation surface using four suitable screws (not included).
2. Secure the screws with suitable washers, spring washers and nuts.



6 Settings on the machine

WARNING



Risk of injury due to unintentional start-up!

There is a risk of injury if the machine starts accidentally during setting procedures.

- Before carrying out setting procedures, switch off the machine and disconnect it from the power supply.



WARNING



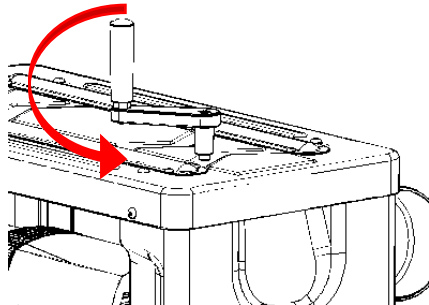
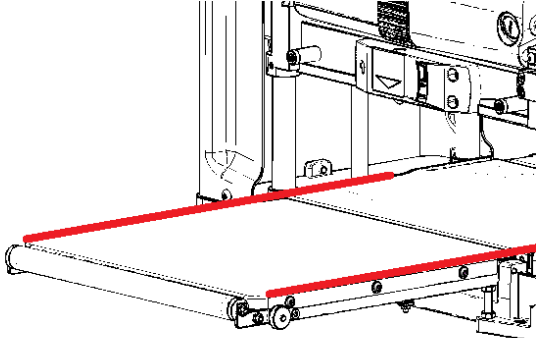
Danger of cutting!

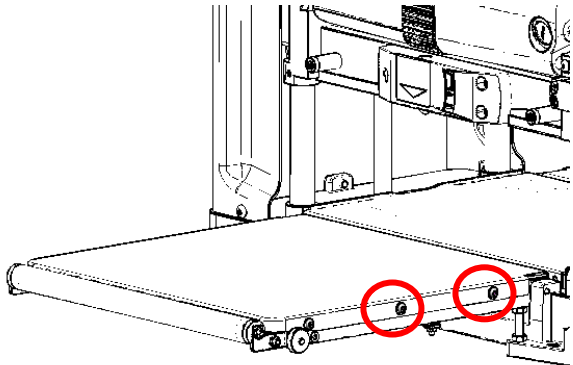
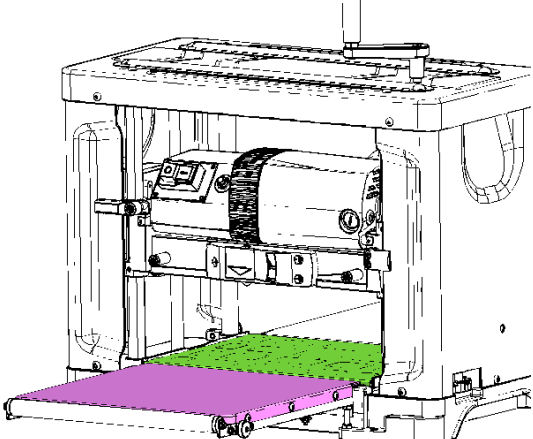
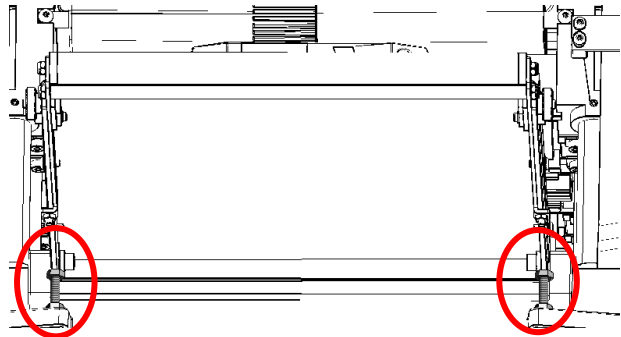
The knives are very sharp. In case of contact, there is a danger of cuts.

- Keep hands and fingers away from the knives.
- Be particularly careful when handling near the knives.

6.1 Adjusting infeed and outfeed table

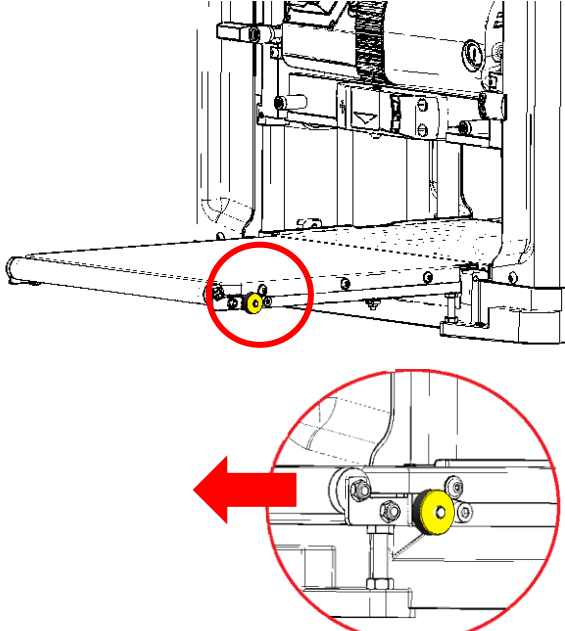
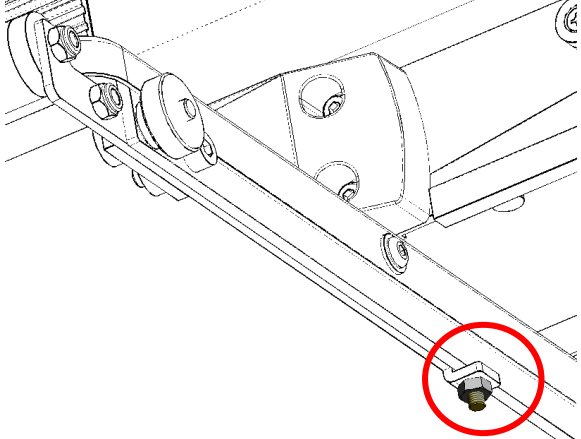
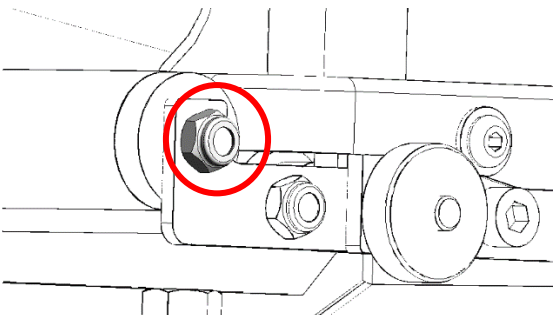
The infeed and outfeed tables must be parallel and level with the central planing table. The tables are correctly adjusted at the factory. If a readjustment is necessary, proceed as follows:

1. Move the cutterhead unit to its upmost position using the crank handle on the top of the machine.	
2. Place a straight metal ruler on the left and right of the feed table and the planing table and check whether they are parallel. Pay attention to the knives - danger of cutting!	

<ol style="list-style-type: none"> 3. If the table is not parallel to the planing table, loosen the three fastening screws on the side. 4. Align the table. 5. Tighten the fastening screws. 	
<ol style="list-style-type: none"> 6. Check the outfeed table in the same way and align it if necessary. 	
<ol style="list-style-type: none"> 7. Place a straight metal ruler as described in step 2. 8. Check whether the table is level with the planing table. The table should be level with the planing table from the outer edge across the entire surface. 	
<p>If there is a discrepancy:</p> <ol style="list-style-type: none"> 9. Fold up the infeed table. 10. Loosen the lock nuts. 11. Adjust the hex head screws with a 10 mm key (not included) until the table is correctly aligned. Turning clockwise raises the infeed table (or its outer front edge). Turning counterclockwise lowers the infeed table (or its outer front edge). 12. Tighten the lock nuts. 	
<ol style="list-style-type: none"> 13. Check the alignment of the infeed table again. 14. If necessary, make another adjustment. 15. Align the outfeed table in the same way. 	

6.2 Aligning the table extensions

The pull-out table extensions provide additional support when working on longer workpieces. They must be parallel and level with the table to which they are attached.

<ol style="list-style-type: none">1. With the table down, loosen the two silver knurled screws on both sides of the table.2. Pull out the extension.3. Place a metal ruler on one side of the infeed table and on the table extension.4. Check the alignment.	
<p>If the table extension is not level with the infeed table, take the following measures on the underside of the table:</p> <ol style="list-style-type: none">5. Loosen the nut on the set screw.6. Turn the set screw with the supplied 2 mm hex key.<ul style="list-style-type: none">▪ clockwise to raise the table extension▪ counterclockwise to lower the table extension7. Tighten the lock nut.8. Once the table extension is parallel and level with the infeed table, repeat the procedure on the outfeed table.	
<ol style="list-style-type: none">9. If necessary, loosen the nuts on the rollers at the end of the table extensions.10. Adjust the rollers up or down.	

6.3 Cleaning the cutterhead

WARNING



Risk of injury due to unintentional start-up!

There is a risk of injury if the machine starts accidentally while cleaning the cutterhead.

- Before cleaning the cutterhead, switch off the machine and disconnect it from the power supply.



WARNING



Danger of cutting!

The knives are very sharp. In case of contact, there is a danger of cuts.

- Watch hands and fingers.
- Never turn the cutterhead by hand.
- Wear heavy leather gloves when handling the cutterhead.

NOTICE



Carrying out the cleaning procedure!

It is possible that residues of the oil film required for the manufacturing process can still be found on the cutterhead. These residues need to be removed before using the machine.

- Run scrap pieces through the machine until the oil film is removed.
- Only carry out the cleaning procedure described below if the oil film is still present after having run scrap pieces through the machine several times.

NOTICE



Damage to the paint caused by solvents!

Solvents or cleaning agents can cause damages to the paint.

- When cleaning, make sure that no solvents or cleaning agents come into contact with painted surfaces.

NOTICE

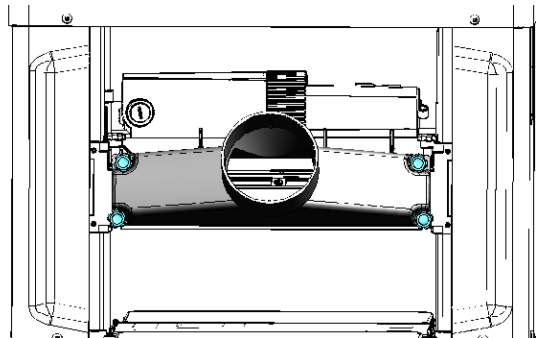
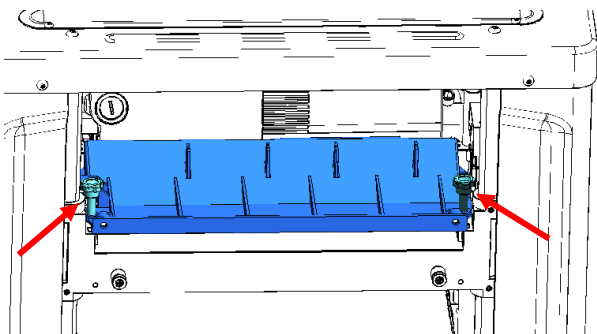
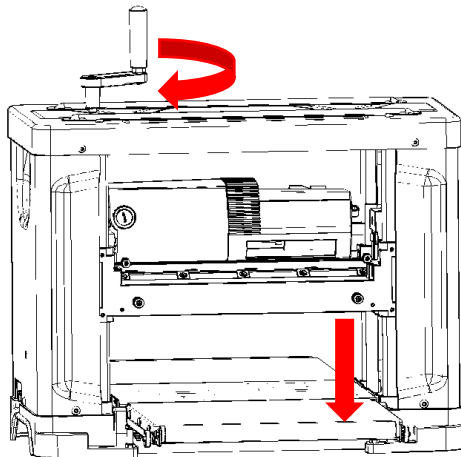
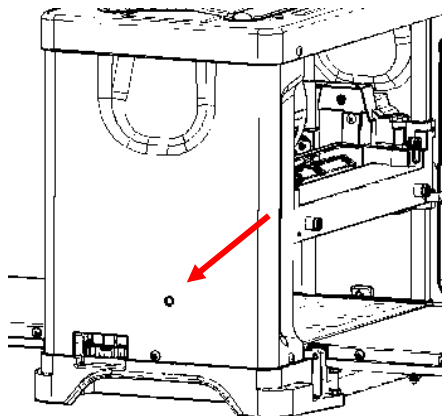


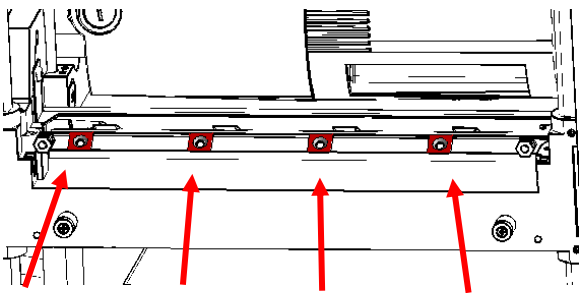
Dirty and worn knives!

Resin and dirt can build up on the knives. Worn knives can affect the planing result.

- Check knives regularly for build-up of resin and dirt and clean them if necessary.
- Check knives regularly for wear. If necessary, rotate or replace the knives.

To clean the cutterhead:

1. Ensure good lighting.	
2. Remove the dust collection port on the rear side of the machine.	
3. Unscrew the two star knob screws on the dust chute. 4. Remove the dust chute to gain access to the cutterhead.	
5. Use the crank handle to lower the cutterhead unit to approx. 25 mm (read the adjustment on the scale on the front).	
6. Insert the supplied 4 mm hex key through the hole on the side panel into the cutterhead to fix the cutterhead in position.	

<p>7. Use the supplied star head T-bar key to carefully remove the knives.</p>	
<p>8. Turn the cutterhead using the hex key in the side panel and remove the remaining knives.</p>	
<p>9. Separate the knives from the screws.</p>	
<p>10. Place the knives in separate containers with mineral spirit or non-chlorinated brake cleaner.</p>	
<p>11. Wipe down the bare cutterhead with a cloth moistened with one of the solvents mentioned above and remove any oil.</p>	
<p>12. Blow off each seat and each screw hole on the cutterhead with a compressor or a compressed air duster. This makes it easier to reinsert the knives.</p>	
<p>13. Lubricate the star head screw threads with light machine oil. 14. Wipe off any excess oil.</p>	
<p>15. Place the knives in the seats in one row. 16. Tighten the knives slightly. 17. Once all knives have been reinserted in a row, tighten the knives (approx. 5.5 Nm).</p>	
<p>18. Fasten the remaining knives in the same way.</p>	
<p>19. Reinstall the dust chute and the dust collection port.</p>	

NOTICE



Oil residues after cleaning!

After cleaning the cutterhead, there may still be oil residues.

- Run scrap pieces through the machine to make sure that there are no oil residues anymore.
- If there are still oil residues, repeat the cleaning procedure.

7 Operating the thickness planer

WARNING



Risk of injury due to missing experience!

This chapter provides basic instructions on how to operate the machine. However, for optimum use of the machine, it is beneficial to study the subject and to be trained by qualified persons. Missing experience can lead to serious injuries.

- Before using the machine for the first time, study the subject and ask qualified persons for training.

NOTICE



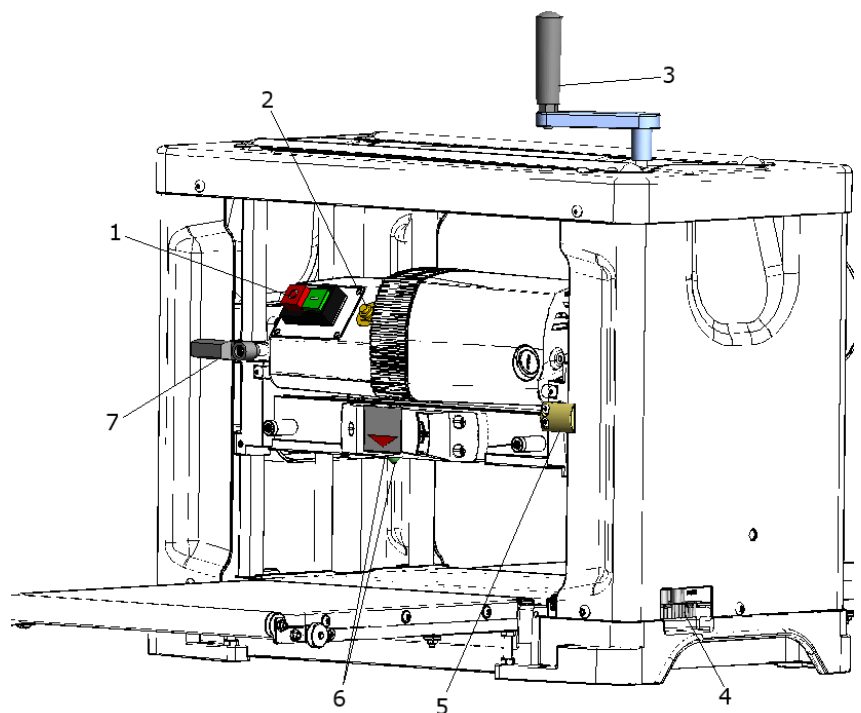
Possible damages to the machine!

This machine is only suitable for processing wood and for its intended use. Processing other materials and unintended use can result in damages to the machine and warranty loss.

- Only process wood.
- Only use the machine for its intended use.

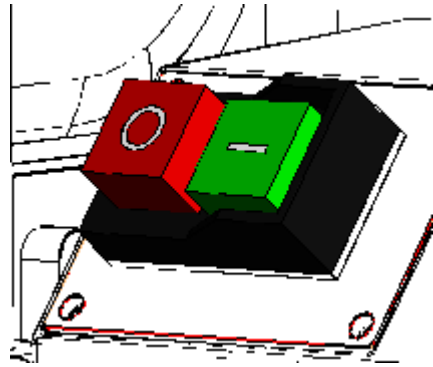
7.1 Operating elements

1. ON/OFF switch
2. Overload protection switch
3. Height adjustment
4. Depth stop
5. Thickness scale
6. Cutting depth indicator
7. Speed shift lever



7.1.1 ON and OFF switch

- Switch on the machine by pressing the green ON switch (I).
- Switch off the machine by pressing the red OFF switch (O).

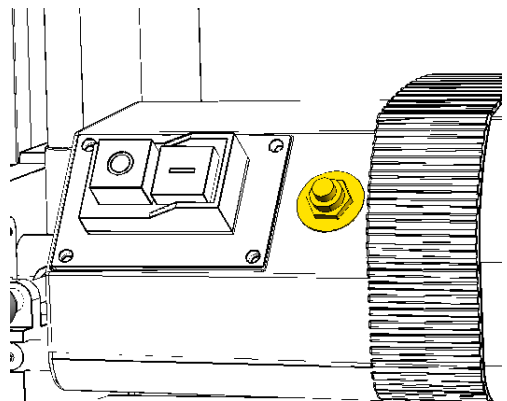


7.1.2 Overload protection switch

The overload protection is triggered as soon as the current exceeds 10 A.

To restart after the overload protection has been triggered:

1. Press the overload protection switch.
2. Press the green ON switch.

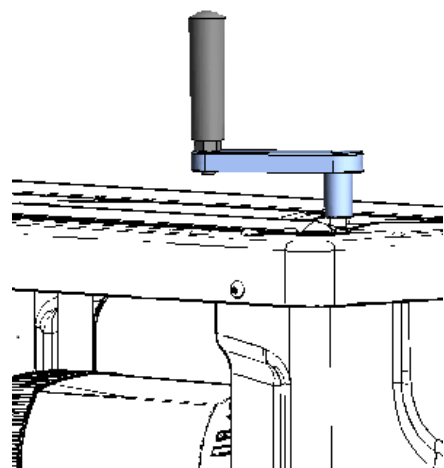


7.1.3 Height adjustment of the cutterhead unit

The cutterhead unit consists of the cutterhead with knives, the infeed and outfeed rollers, roller chains, gearbox and dust chute. Adjusting the height of the cutterhead unit determines the cutting depth of the thickness planer.

- Raise the cutterhead unit by turning the crank handle clockwise.
- Lower the cutterhead unit by turning the crank handle counterclockwise.

NOTICE: One turn of the crank handle raises or lowers the unit by approx. 1.6 mm. Use the thickness scale on the right of the front side of the machine to check.

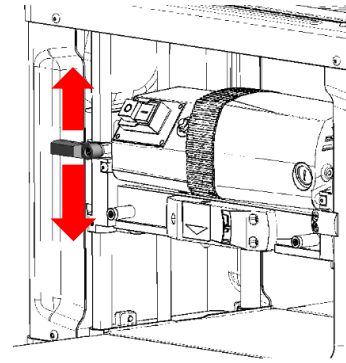


7.1.4 Speed shift lever

Using the thickness planer in high speed is for removing material quickly. Using the planer in low speed is for achieving a better surface quality.

- Lower position:
low speed (5.5 m/min)
- Upper position:
high speed (8 m/min)

NOTICE: The position of the speed shift lever may not correspond exactly to the position on the label.



NOTICE



Possible damages to the machine!

Operating the speed shift lever when the machine is loaded or switched off may damage the control mechanism.

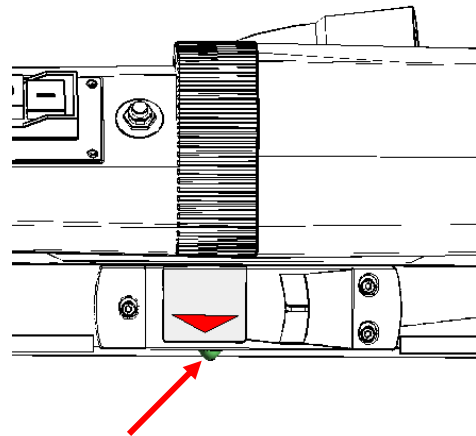
- Only operate the speed shift lever when the machine is switched on and unloaded.

7.1.5 Cutting depth indicator

The cutting depth indicator on the front of the machine allows you to quickly determine how much material is being removed in one pass.

1. Switch off the machine.
2. Move the cutterhead to its upmost position.
3. Insert the workpiece just under the indicator arrow.
4. Use the crank handle to lower the cutterhead until the button below the indicator arrow comes in contact with the workpiece.
5. When rotating the crank handle, the needle of the cutting depth scale will move and show how much material will be removed in that pass.

NOTICE: A jumping needle during the planing process is normal.



NOTICE



Possible damages to the machine!

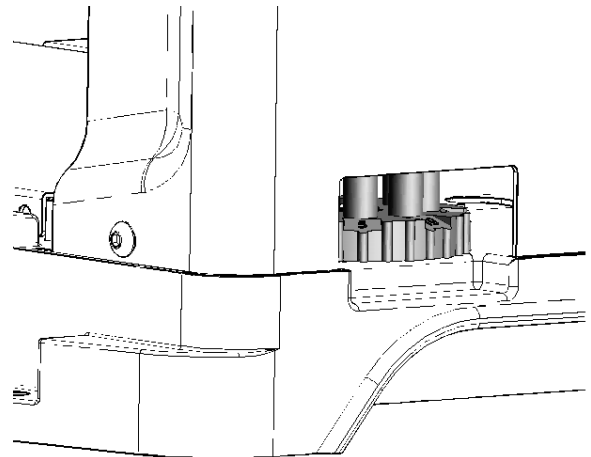
If the workpiece is irregular and the thinner end is fed into the machine first without having set the cutting depth indicator to the thicker end, the workpiece may get caught and the machine may be damaged.

- When planing irregular workpieces, always feed the thicker end into the machine first.
- When planing irregular workpieces, adjust the cutting depth indicator to the thicker end.

7.1.6 Depth stop for repeat cut

The depth stop on the bottom right side of the machine provides a fast way to preset the final thickness of a workpiece. This function is especially useful if several workpieces shall receive the same thickness.

1. Switch off the machine.
2. Preset the depth stop to the desired final thickness.



NOTICE



Possible damages to the machine!

Excessive downward pressure by the cutterhead unit onto the depth stop mechanism can damage it.

- When lowering the cutterhead unit, make sure that the depth stop is in the lowest position.

7.1.7 Thickness scale adjustment

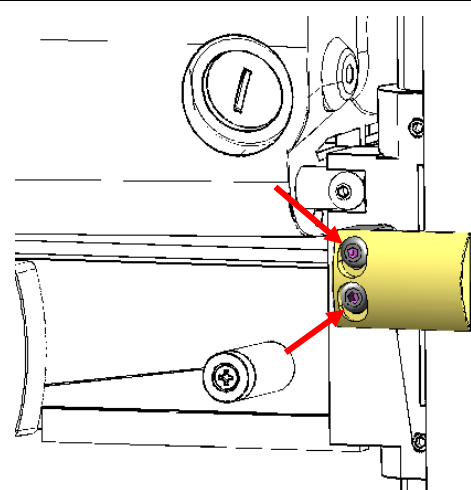
The thickness scale on the right side of the front of the machine shows the thickness of the finished workpiece.

To check the thickness scale setting:

1. Run a piece of wood through the machine.
2. Measure the thickness of the finished workpiece.

If there is a discrepancy:

1. Hold the thickness indicator.
2. Loosen the two round-head screws on the thickness indicator.
3. Adjust the thickness indicator correctly.
4. Retighten the round-head screws, but do not overtighten. This could damage the transparent indicator.



7.2 Operating the thickness planer

7.2.1 Applying lubricant to the infeed, outfeed and planing tables

WARNING



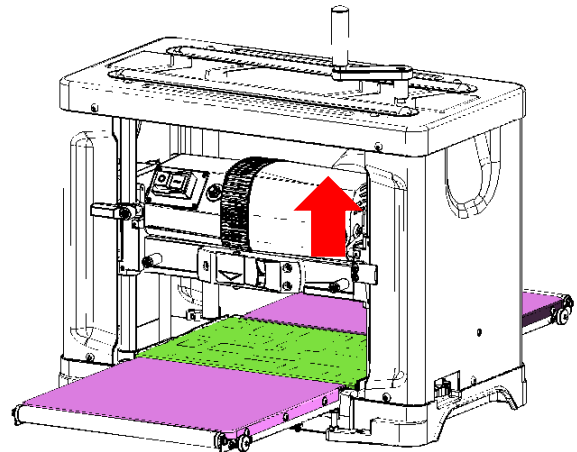
Danger of cutting!

The knives are very sharp. In case of contact, there is a danger of cuts.

- Switch off the machine and disconnect it from the power supply.
- Keep hands and fingers away from the knives.
- Be extremely careful when applying lubricant.

Before using the thickness planer, apply a suitable lubricant to the infeed, outfeed and planing tables:

1. Raise the cutterhead to at least 127 mm.
2. Apply a thin layer of wax paste (e.g. furniture wax) or a suitable lubricant to the surfaces.



7.2.1 Getting prepared for thickness planing

1. Before each use, check the machine for loose parts.
2. Switch on the machine.
3. Pay attention to excessively loud noises or excessive vibrations.
4. If any are noted, switch off the machine.
5. Check the machine again for loose parts.
6. If necessary, repeat the assembly and setting procedures.

7.2.3 Starting up the thickness planer

WARNING



Risk of injury due to machine movements!

If the machine is not screwed to the installation surface and therefore starts moving, there is a risk of injury.

- Screw the machine to the installation surface.

WARNING



Danger of cutting!

The knives are very sharp. In case of contact, there is a danger of cuts.

- Keep hands and fingers away from the knives.
- Be particularly careful when handling near the knives.

WARNING



Danger of being pulled in!

Loose clothes, jewellery or long hair can be caught and pulled in by moving parts of the machine, which can lead to injuries.

- Observe the specifications for personal protective equipment in these operating instructions.
- Wear personal protective equipment.
- Wear suitable clothing.
- Do not wear loose clothing and jewellery.
- Wear a headgear or hairnet.
- Avoid wearing gloves.

WARNING



Risk of injury due to kickback and splinters!

Workpieces being thrown back and splinters can cause injuries.

- Wear personal protective equipment.
- Wear safety glasses or a face shield.
- Observe the basic safety instructions and the labels on the machine.
- Take a position on the side of the machine (either left or right side), do not stand directly in front or behind the machine.
- Check the condition and suitability of the workpieces before processing them.

WARNING



Risk of injury due to insufficient workpiece dimensions!

If workpieces with insufficient dimensions are fed into the machine, they can jam in the cutterhead unit, cause damages to the machine or can be thrown out of the machine, which can lead to serious injuries.

- Only feed workpieces with a minimum length of 250 mm, a minimum thickness of 3.175 mm and a minimum width of 19 mm into the machine.

WARNING



Risk of injury due to flying metal parts!

Metal parts getting into the cutterhead can be thrown out and cause injuries. They can also cause damages to the machine and flying sparks, creating a risk of fire.

- Make sure that no metal parts get into the cutterhead.

NOTICE



Possible damages to the machine!

If the machine is constantly operated at maximum cutting depth (1.6 mm), at maximum width (330 mm) or under continuous load, the motor is subject to a high load. This can damage the motor or affect the service life of the motor.

- Set cutting depths lower than the maximum, ideally less than 0.8 mm.
- Prefer workpiece widths smaller than the maximum workpiece width of 330 mm.
- Give the motor sufficient time to cool down between individual work steps (do not switch off the machine).

Processing workpieces

NOTICE



Notes on thickness planing!

The best results are only achieved with a correctly set machine, a level surface and intact, sharp knives. The maximum chip removal possible depends on the type of wood, workpiece width and workpiece properties (such as grain, degree of dryness). The cutting depth influences the final result and how much strain is placed on the motor.

- Before starting up, make sure that the machine is correctly set.
- Before starting up, make sure that the knives are intact and sharp.
- Only use knives suitable for the machine.
- Only use workpieces planed flat on at least one side.
- The wider the workpiece and the harder the type of wood, the less the cutting depth.
- A reduced cutting depth per pass is good for the machine and the result. Nevertheless, it may be necessary to grind the surface after machining.
- Give green wood enough time to achieve the necessary degree of dryness.
- If only one side of the workpiece is flat, place this side on the table and machine the opposite side.
- Always machine both sides of the workpiece to achieve the desired thickness.
- If all sides of the workpiece shall be planed, first place the workpiece on edge before processing the larger side.
- Do not process more than two workpieces at the same time.

Operating the machine

1. Observe the safety notices above and the basic safety instructions
2. Make sure that infeed, outfeed and planing tables are clean.
3. If necessary, apply a suitable lubricant to the tables.
4. Use scrap wood for first planing attempts. Make test cuts.
5. Take the working position: stand either on the right or left side of the machine, not directly in front of the machine.

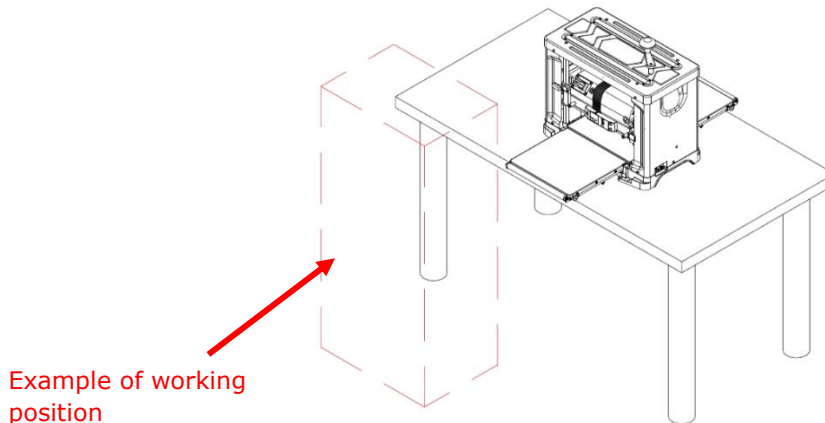
NOTICE



Notes on the correct working position!

The correct working position prevents injuries.

Example: Working position to the left of the machine



6. Press the ON switch.
7. Select the desired speed (lower position: 5.5 m/min, upper position: 8 m/min).
8. Grab the workpiece in the middle by the edges.
9. Place the workpiece on the infeed table (level side down).
10. If necessary, pull out the table extension.
11. For longer workpieces, be sure to use an additional support (e.g. roller stand).
12. Push slightly on the workpiece to start the feed.
13. Let the workpiece be drawn in by the infeed rollers.
14. Once the infeed rollers start to pull the workpiece through the machine, let go of the workpiece. Do not push or pull the workpiece anymore under no circumstances.
15. Remove the workpiece on the rear side of the machine, standing either on the left or right, not directly in front of the machine. Grab the workpiece by the edges as when feeding it.
16. Either carry the workpiece back to the infeed table or place it on the bars on the top of the machine and then pull it down on the infeed side.
17. It is usually necessary to run the workpiece several times through the machine to achieve a smooth surface.
18. Repeat the procedure as often as necessary.

Avoiding snipe

Snipe can occur on both ends of the workpiece if the workpiece is not properly supported. Snipes and depressions at the ends are particularly common when working on workpieces longer than 1,500 mm, as unsupported weight pulls the workpiece down on the end. For long workpieces, be sure to use an additional support (e.g. roller stand). Place the support as centrally as possible.

The following tips can help to avoid snipes and depressions:

- Use workpieces that are slightly longer than needed so that the ends can be cut off in the event of snipes.
- Run scrap pieces of the same thickness through the machine in front of and behind the workpiece. Make sure that the scrap pieces and the workpiece touch each other.
- Make a guiding jig for the thickness planer with a continuous surface (instructions can be found online).
- Tilt the workpiece slightly when feeding it. The outermost edge of the workpiece will "absorb" the snipe.
- Remove less material per pass.
- The most common method: Lift the workpiece slightly when feeding it until the outfeed roller grabs the workpiece. Lift the workpiece slightly again during the outfeed of the workpiece to avoid that the end of the workpiece gets caught in the cutterhead.

8 Care and maintenance

8.1 Maintenance, cleaning and machine care

Regular maintenance increases the service life of the machine.

WARNING



Risk of injury due to unintentional start-up!

There is a risk of injury if the machine starts accidentally during maintenance and cleaning.



- Before carrying out maintenance and cleaning, switch off the machine and disconnect it from the power supply.



WARNING



Danger of cutting!

The knives are very sharp. In case of contact, there is a risk of injury.

- Keep hands and fingers away from the knives.
- Be particularly careful when handling near the knives.

Interval	Note	Location	Measure
After each use		Machine	Remove or blow off chips, dust and dirt.
		Infeed, outfeed rollers	Check rollers for build-up of resin, rubber, dirt, etc. If necessary, clean with non-flammable resin remover suitable for rubberised surfaces. Clean rollers are essential for a good planing quality.
		Infeed, outfeed and planing tables	Check tables for build-up of resin, rubber, dirt, etc. If necessary, clean with suitable resin remover.
		Infeed, outfeed and planing tables	Check the sliding ability of the tables. If necessary, apply lubricant to the tables. A poor sliding surface affects the result.
Regularly		Moving parts	Clean moving parts regularly with penetrating oil and lubricate them with a light coat of medium-weight machine oil.
		Motor	Blow dust and dirt off the motor with low-pressure air (less than 3.5 bar). Compressed air above 3.5 bar can damage the insulation.
		Screws, nuts, clamps	Regularly check all clamps, screws and nuts for tightness.
		Knives	Check knives for build-up. If necessary, clean.
		Gearbox	Lubricate gears (see instructions below).
Every 10-15 hours		Motor	Check motor brushes. If necessary, replace (see instructions below).
After approx. 50 operating hours		Cutterhead	Check screws and knives on cutterhead for tightness. Repeat check regularly.

Lubricants and cleaning agents to be used

Use standard lubricants and cleaning agents.

NOTICE



Risk of fire due to improperly stored cleaning rags!

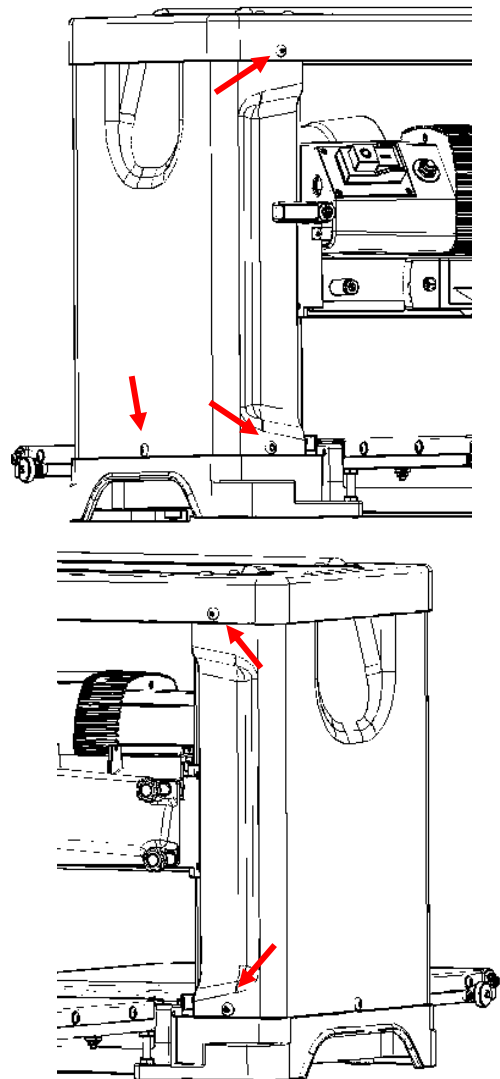
Cleaning rags or polishing wool soaked in oils, greases, solvents and cleaning agents are flammable.

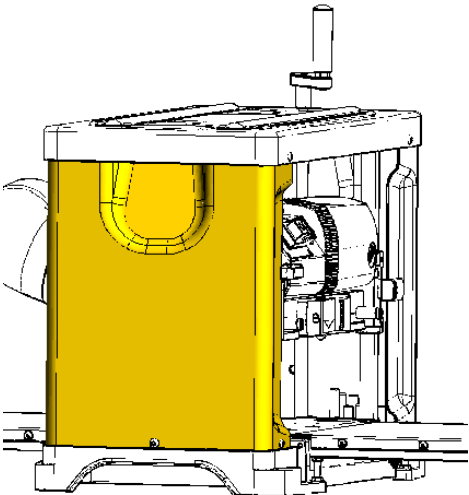
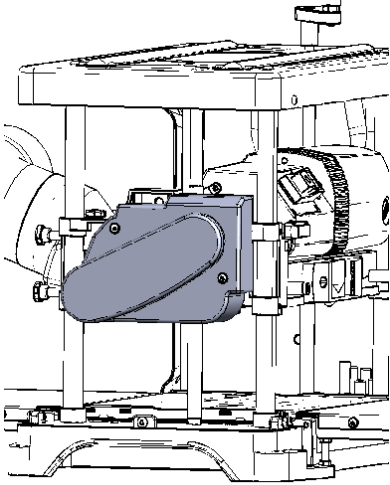
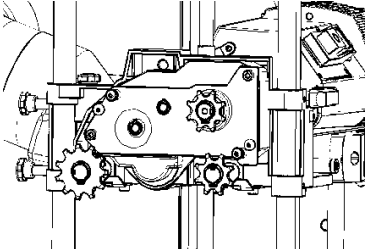
- Store oil-soaked cleaning rags separately in suitable closed metal containers.
- Dispose of oil-soaked cleaning rags and polishing wool separately and in accordance with applicable regulations.

8.1.1 Lubricating the gears in the gearbox

The gears in the gearbox should be lubricated regularly as follows:

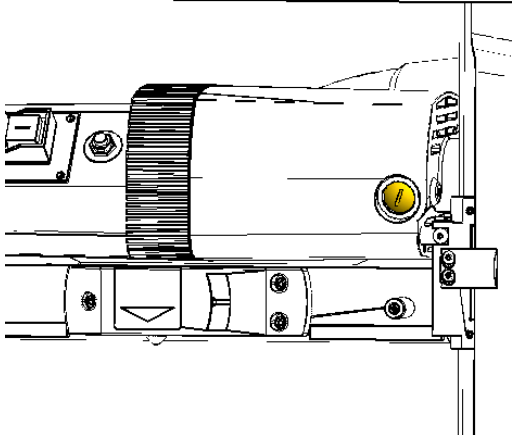
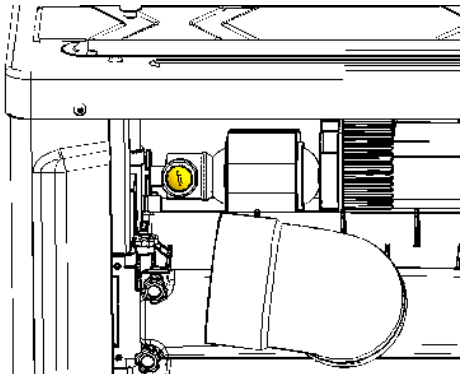
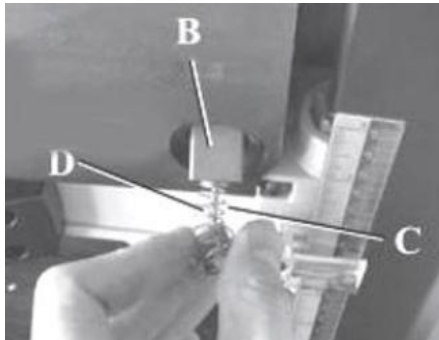
1. Remove the two screws on the top of the left side cover (one screw on the front and one on the back).
2. Remove the three socket head screws on the bottom of the left side cover (one screw on the front, one on the back, one in the middle of the side cover).



<p>3. Pull out the side cover from the bottom and put it aside.</p>	
<p>4. Remove the gear cover.</p>	
<p>5. Lubricate the gears with multi-purpose oil.</p>	
<p>6. Reinstall the gear cover and the side cover.</p>	

8.1.2 Replacing the motor brushes

The service life of the motor brushes depends on how much strain the motor is subjected to. The motor brushes should be checked every 10 - 15 operating hours and replaced if necessary.

<ol style="list-style-type: none">1. Loosen the brush holder on the front of the motor with a flat-head screwdriver.2. Remove the motor brush.	
<ol style="list-style-type: none">3. Loosen the brush holder on the rear of the motor with a flat-head screwdriver.4. Remove the motor brush.	
<ol style="list-style-type: none">5. Check the carbon (B), the spring (C) and the wire (D) of the motor brushes.6. Replace both motor brushes if one of the brushes is worn to 4.8 mm or less, or if the wire or the spring is damaged. <p>Spare part motor brush: Art.No. EX-D330-C2 (2 pieces are required.)</p>	

8.1.3 Working on electrical system components

WARNING



Danger to life due to electric current!

When touching live parts, there is an immediate danger to life due to electric shock.

Damaged insulations or electrical components can be life-threatening.

- Have work on the electrical system components carried out only by qualified electricians.
- Before working on electrical system components, switch off the machine and pull the power plug. Do not leave the power plug unattended and secure it against being plugged in.
- In case of damaged insulations, switch off the machine immediately and have them repaired.

8.1.4 Use of recommended spare parts

WARNING



Risk of injury due to the use of unsuitable spare parts!

Original spare parts are available which are specifically designed for this machine. Spare parts from other manufacturers are often unsuitable. Using them can cause a risk of injury or damage the machine.

- Only use original spare parts. Ask a specialist dealer for information.

9 Troubleshooting

9.1 Troubleshooting

WARNING



Risk of injury due to unintentional start-up!

There is a risk of injury if the machine starts accidentally when performing certain troubleshooting activities, such as removing jams.

- If necessary, switch off the machine and disconnect it from the power supply.

WARNING



Danger of cutting!

The knives are very sharp. In case of contact, there is a risk of injury.

- Keep hands and fingers away from the knives.
- Be particularly careful when handling near the knives.

The following list is intended to provide aid when troubleshooting. In case of problems, the dealer can help. Unusual and unexpected faults should be reported to him.

Fault	Possible cause	Possible remedy
Machine does not start	No current	Check power plug, power supply.
	Tripped fuse	Check fuse and, if necessary, reset. In case of doubt, contact a qualified electrician.
	Triggered overload protection	Press the overload protection switch. Restart the machine.
Interrupted operation	Machine overload	Reduce load.
	Circuit overload	Operate machine on a circuit separate from other equipment or on a circuit with sufficient amperage.
Poor planing result	Excessive moisture content of wood	Allow the wood to dry sufficiently before thickness planing.
	Blunt knives	Rotate or replace knives.
	Excessive cutting depth	Reduce cutting depth.
Insufficient feed	Excessive cutting depth	Reduce cutting depth.
	Blunt knives	Rotate or replace knives.
	Build-up on tables	Clean tables and apply lubricant.
	Build-up on rollers	Clean rollers with cleaner suitable for rubberised surfaces.
Snipe (depressions on the end of the workpiece)	Blunt knives	Rotate or replace knives.
	Incorrect adjustment of infeed or outfeed table	Readjust tables.
	Excessive cutting depth	Reduce cutting depth.
	Handling of the workpieces	See tips in chapter "Operating the thickness planer".
Tear-outs	Excessive or insufficient cutting depth	Reduce or increase cutting depth.
	Workpiece fed against the grain	Feed workpiece with the other side first.
	Handling of the workpieces	<ul style="list-style-type: none"> ▪ Tilt workpiece when feeding. ▪ Lightly moisten workpiece before feeding.
	Blunt knives	Rotate or replace knives.
Workpiece thickness doesn't correspond to the set thickness	Incorrect adjustment of thickness scale	Readjust the thickness scale.

9.2 Restoring normal operation

The machine is equipped with an overload protection that is triggered as soon as the current exceeds 10 A. If the overload protection has been triggered, eliminate the fault, press the overload protection switch and restart the machine with the green ON switch. In the event of other faults, switch off the machine, disconnect it from the power supply, eliminate the cause, plug the machine back in and press the ON switch. If the system is overheated, restoring operation may take longer.

10 Decommissioning and disposal

The following instructions for final decommissioning and disposal of the machine must be observed:

NOTICE



Danger to the environment due to incorrect disposal!

Incorrectly disposed of materials can damage the environment.

- When decommissioning the machine, adhere to the applicable laws and regulations for disposal.
- Do not dispose of the machine or parts of it together with domestic waste.
- Dispose of the parts of the machine in such a way as to prevent any harm to health or the environment.
- Check which materials can be recycled and recycle them properly.

NOTICE



Danger to the environment due to incorrect disposal!

Oils, greases, solvents and cleaning agents are hazardous to the environment and must not be allowed to reach sewage or normal domestic waste. The same applies to cleaning rags or polishing wool soaked in oils, greases, solvents and cleaning agents.

- Dispose of oils, greases, solvents and cleaning agents as well as cleaning rags and polishing wool soaked in them at local recycling centres.

The defective machine can also be disposed of via the responsible dealer.

11 Annex

11.1 EC Declaration of conformity



EC – Declaration of Conformity

For machines (according to EC-Directive 2006/42/EC)

No. of Declaration of Conformity:	Neu-EX-244-901-EN
Distributor:	Neureiter Maschinen GmbH Gewerbegebiet Brennhoflehen Kellau 167 A – 5431 Kuchl
Responsible person for technical documentation:	Ludwig Neureiter Kellau 167 A – 5431 Kuchl
Object of the declaration:	Thickness planer
Product designation:	EXMAC D330
Technical name:	AT-13-2 ; AT-13-NE-2

The serial number, crucial technical information and marks of conformity can be found on the rating plate of each machine.

The distributor bears the sole responsibility for issuing this EC Declaration of Conformity.

The object of the declaration described above is in conformity with the relevant

Union harmonisation legislation:

Machinery Directive 2006/42/EC

The following harmonised standards and technical specifications have been applied:

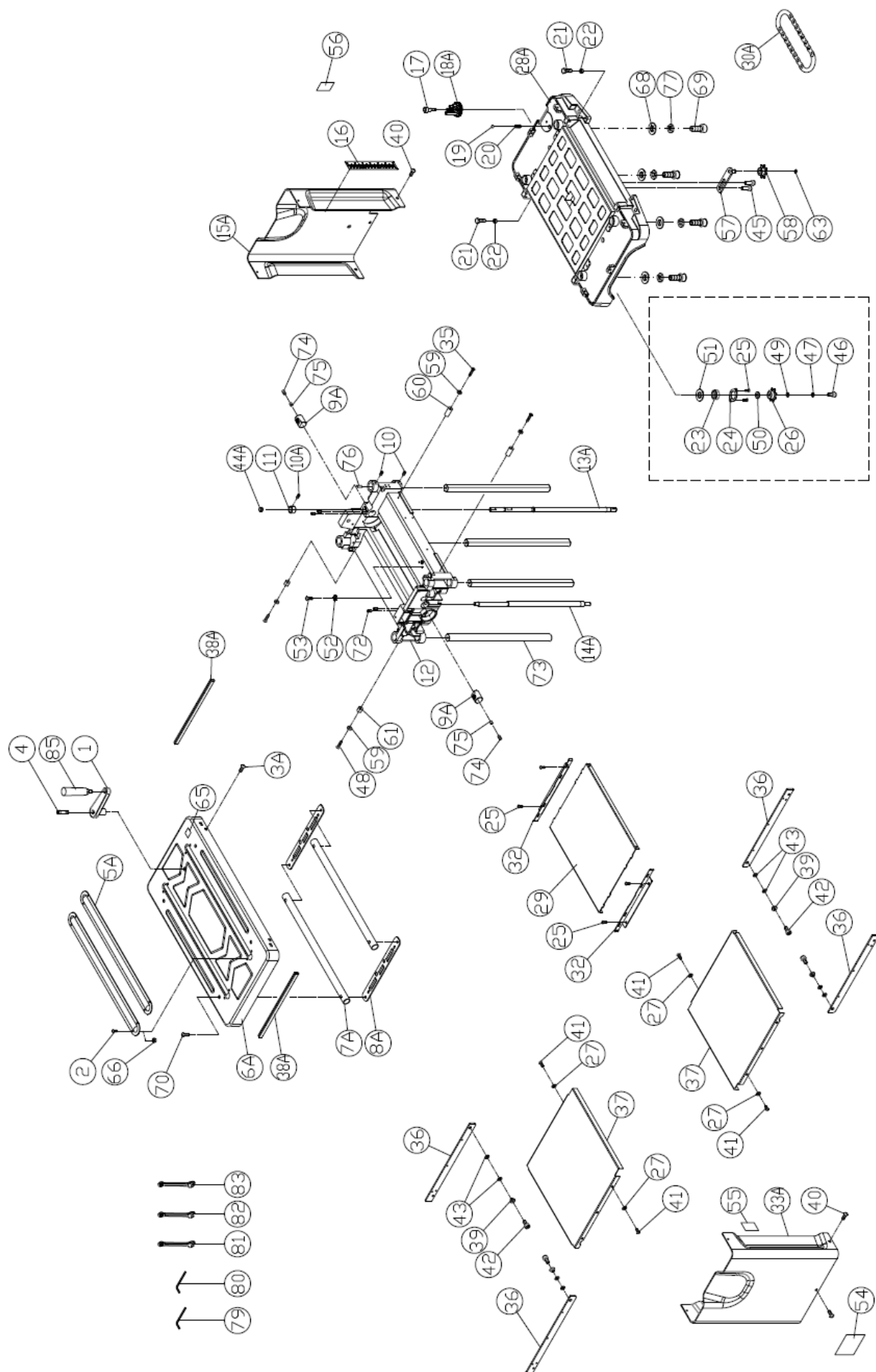
EN ISO 12100:2010	Safety of machinery – General principles for design – Risk assessment and risk reduction
EN 61029-1:2009/A11:2010	Safety of transportable motor-operated electric tools – Part 1: General requirements
EN 61029-2-3:2011	Safety of transportable motor-operated electric tools – Part 2-3: Particular requirements for planers and thicknessers

Mr Ludwig Neureiter
Neureiter Maschinen GmbH
Gewerbegebiet Brennhoflehen
Kellau 167
A – 5431 Kuchl



Kuchl, 22 October 2024
Ludwig Neureiter (owner)

11.2 Exploded view A – machine

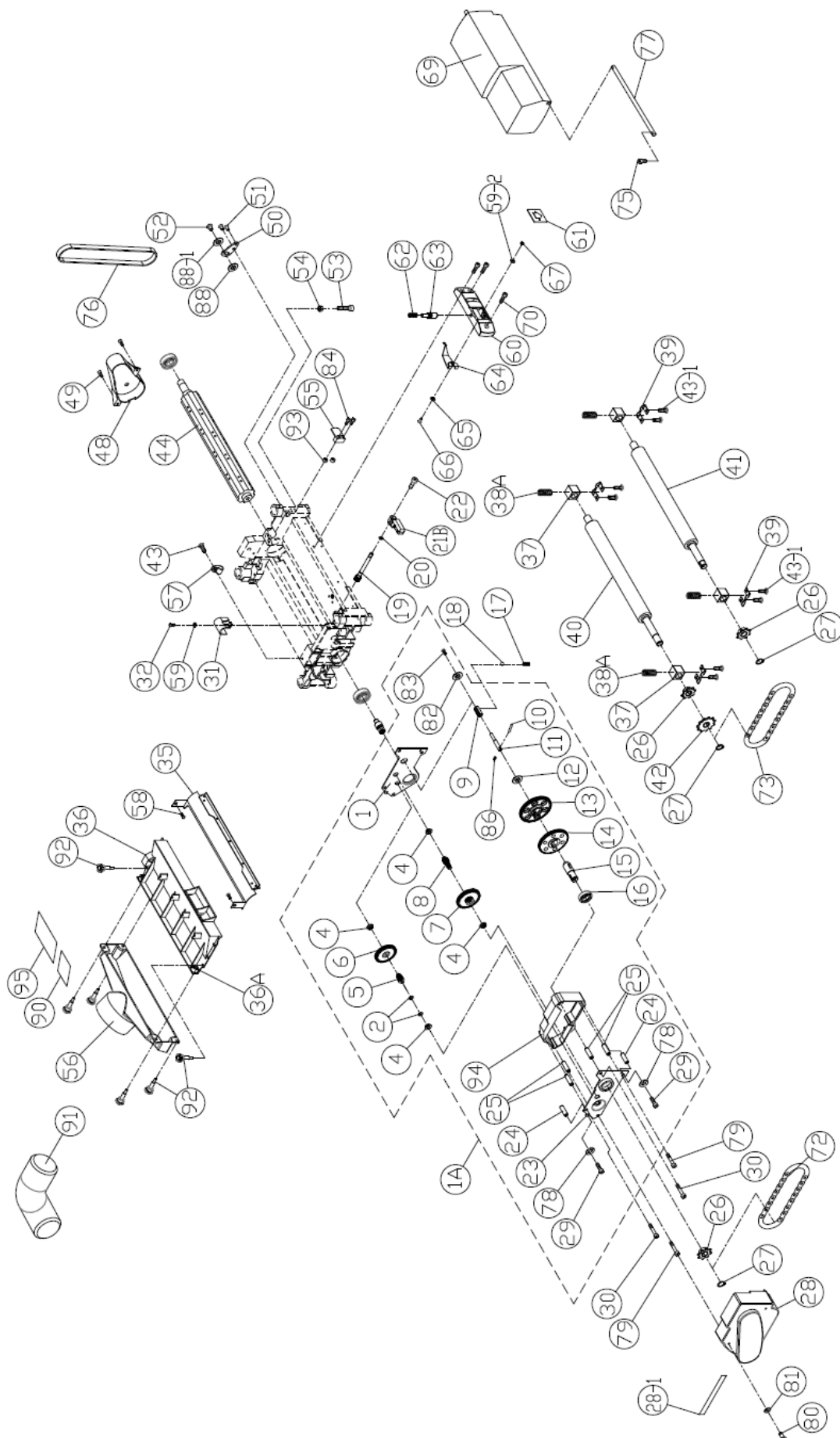


11.3 Parts list A - machine

Ref.	Part number	Designation	Spec.
A1	EX-D330-A1	1x crank handle arm	
A2	EX-D330-A2	8x SH button head screw	M4x6
A3A	EX-D330-A3A	4x SH button head screw	M5x10
A4	EX-D330-A4	1x SH cap screw	5x25
A5A	EX-D330-A5A	2x cover	
A6A	EX-D330-A6A	1x cover top	
A7A	EX-D330-A7A	2x steel tube	
A8A	EX-D330-A8A	2x steel plate	
A9A	EX-D330-A9A	2x nut	
A10	EX-D330-A10	8x set screw	M5x6
A10A	EX-D330-A10A	1x set screw	M5x4
A11	EX-D330-A11	1x stop sleeve	
A12	EX-D330-A12	1x housing cutterhead unit	
A13A	EX-D330-A13A	1x threaded spindle drive side	
A14A	EX-D330-A14A	1x threaded spindle driven side	
A15A	EX-D330-A15A	1x side cover right	
A16	EX-D330-A16	1x thickness scale	
A17	EX-D330-A17	1x screw	M6x18
A18A	EX-D330-A18A	1x depth stop	
A19	EX-D330-A19	1x steel ball	Ø 10
A20	EX-D330-A20	1x spring	
A21	EX-D330-A21	4x hex head screw	M6x35
A22	EX-D330-A22	4x hex nut	M6
A23	EX-D330-A23	2x ball bearing	6000
A24	EX-D330-A24	2x bearing cover	
A25	EX-D330-A25	8x SH button head screw	M5x10
A26	EX-D330-A26	2x sprocket	
A27	EX-D330-A27	12x washer	M4
A28A	EX-D330-A28A	1x base	
A29	EX-D330-A29	1x planing table	
A30A	EX-D330-A30A	1x chain	
A32	EX-D330-A32	2x guide	
A33A	EX-D330-A33A	1x side cover left	
A35	EX-D330-A35	2x flat head screw	M3x40
A36	EX-D330-A36	4x table support	
A37	EX-D330-A37	2x table	
A38A	EX-D330-A38A	2x edge protection	
A39	EX-D330-A39	4x bushing	
A40	EX-D330-A40	6x SH button head screw	M6x15

Ref.	Part number	Designation	Spec.
A41	EX-D330-A41	12x SH button head screw	M4x10
A42	EX-D330-A42	4x SH cap screw	M6x15
A43	EX-D330-A43	8x wave washer	8xD15
A44A	EX-D330-A44A	1x bushing	
A45	EX-D330-A45	2x SH cap screw	M8x10
A46	EX-D330-A46	2x SH cap screw	M4x10
A47	EX-D330-A47	2x spring washer	M4
A48	EX-D330-A48	2x flat head screw	M3x25
A49	EX-D330-A49	2x washer	M4
A50	EX-D330-A50	2x spacer	M10
A51	EX-D330-A51	2x spacer	M12
A52	EX-D330-A52	2x external tooth washer	M5
A53	EX-D330-A53	2x panhead screw	M5x10
A54	EX-D330-A54	1x warning label	
A55	EX-D330-A55	1x speed shift label	
A56	EX-D330-A56	1x depth stop label	
A57	EX-D330-A57	1x adjustment block	
A58	EX-D330-A58	1x sprocket	
A59	EX-D330-A59	4x magnet	
A60	EX-D330-A60	2x table magnet long	
A61	EX-D330-A61	2x table magnet short	
A63	EX-D330-A63	1x circlip	S-10
A65	EX-D330-A65	1x height adjustment label	
A66	EX-D330-A66	8x nylon nut	M4
A68	EX-D330-A68	4x washer	M10
A69	EX-D330-A69	4x SH cap screw	M10x35
A70	EX-D330-A70	4x SH button head screw	M6x30
A72	EX-D330-A72	4x set screw	M5x8
A73	EX-D330-A73	4x column	
A74	EX-D330-A74	2x set screw	¼"-20x¼"
A75	EX-D330-A75	2x PU block	
A76	EX-D330-A76	8x resistance pad	
A77	EX-D330-A77	4x spring washer	M10
A79	EX-D330-A79	1x hex key	3 mm
A80	EX-D330-A80	1x hex key	2.5 mm
A81	EX-D330-A81	1x combination spanner	10
A82	EX-D330-A82	1x combination spanner	7
A83	EX-D330-A83	1x combination spanner	8
A85	EX-D330-A85	1x crank handle	

11.4 Exploded view B - cutterhead unit

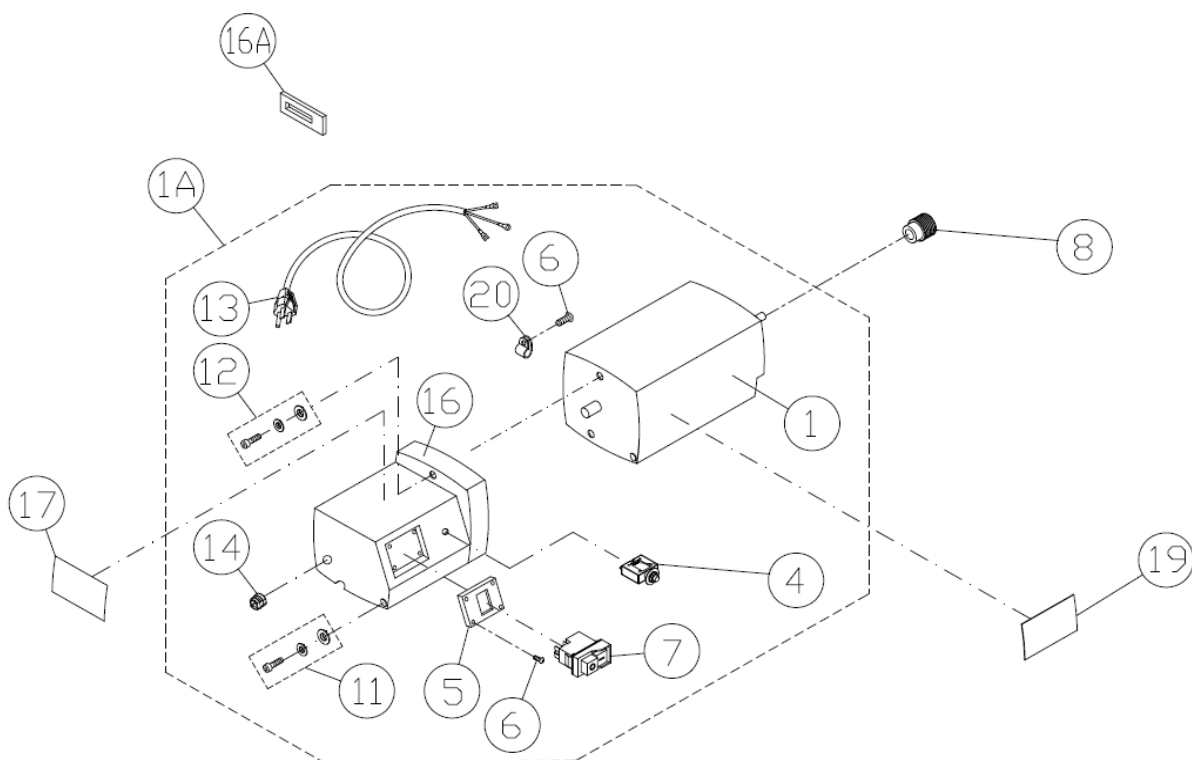


11.5 Parts list B – cutterhead unit

Ref.	Part number	Designation	Spec.
B01A	EX-D330-B01A	gearbox complete	
B01	EX-D330-B01	1x gear plate	
B02	EX-D330-B02	2x washer	M8x15x0.6
B04	EX-D330-B04	4x spacer	
B05	EX-D330-B05	1x gear shaft	12 T
B06	EX-D330-B06	1x gear	52 T
B07	EX-D330-B07	1x gear	
B08	EX-D330-B08	1x pinion gear	
B09	EX-D330-B09	1x rack	
B10	EX-D330-B10	1x pin	Ø4x24mm
B11	EX-D330-B11	1x actuator	
B12	EX-D330-B12	1x spacer	
B13	EX-D330-B13	1x gear	80 T
B14	EX-D330-B14	1x gear	75 T
B15	EX-D330-B15	1x shaft	
B16	EX-D330-B16	1x ball bearing	6002
B17	EX-D330-B17	1x spring	
B18	EX-D330-B18	1x steel ball	Ø8
B19	EX-D330-B19	1x speed shift shaft	
B20	EX-D330-B20	1x circlip	S-8
B21B	EX-D330-B21B	1x handle	
B22	EX-D330-B22	1x SH cap screw	M4x12
B23	EX-D330-B23	1x bracket	
B24	EX-D330-B24	2x spacer	
B25	EX-D330-B25	4x spacer	
B26	EX-D330-B26	3x sprocket	8 T
B27	EX-D330-B27	3x circlip	S-15
B28	EX-D330-B28	1x gear cover	
B28-1	EX-D330-B28-1	1x sponge	
B29	EX-D330-B29	2x SH round-head screw	M5x35
B30	EX-D330-B30	2x SH cap screw	M5x45
B31	EX-D330-B31	1x cover	
B32	EX-D330-B32	1x SH round-head screw	M4x6
B35	EX-D330-B35	1x dust chute plate	
B36	EX-D330-B36	1x dust chute cover	
B36A	EX-D330-B36A	2x nut	M5
B37	EX-D330-B37	4x block	
B38A	EX-D330-B38A	4x spring	
B39	EX-D330-B39	4x plate	
B40	EX-D330-B40	1x outfeed roller	
B41	EX-D330-B41	1x infeed roller	
B42	EX-D330-B42	1x sprocket	11 T
B43	EX-D330-B43	1x SH round-head screw	M5x10
B43-1	EX-D330-B43-1	8x SH cap screw	M5x10
B44	EX-D330-B44	1x cutterhead	

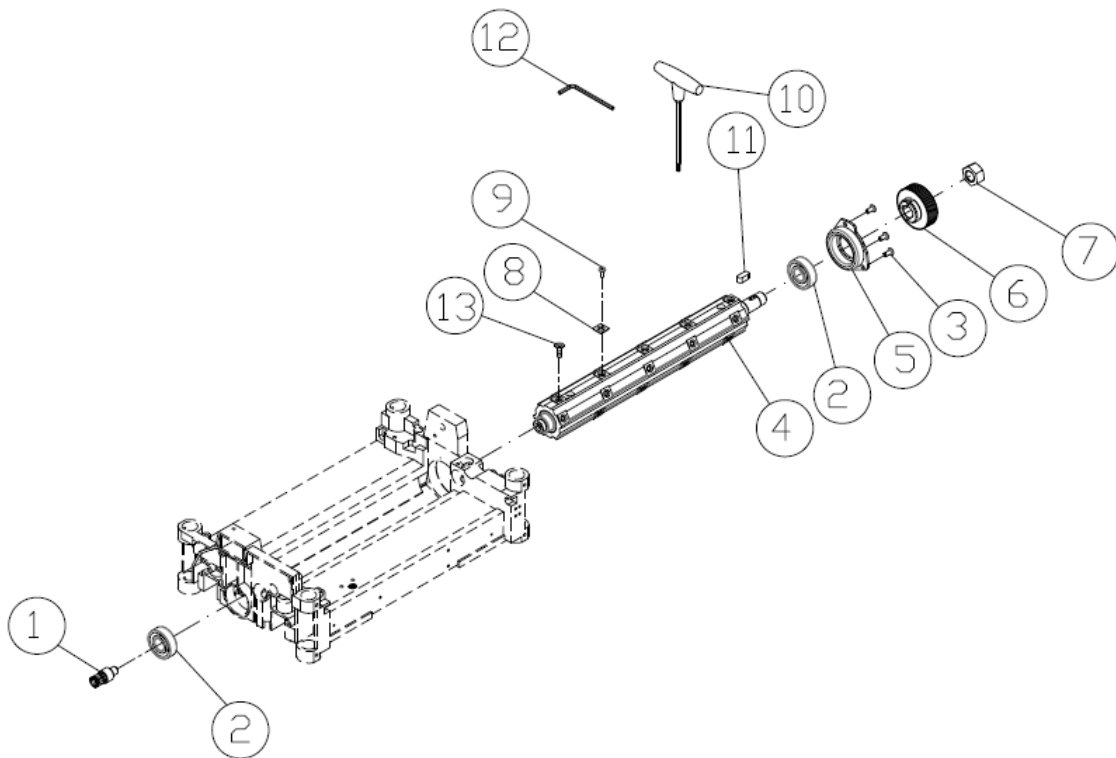
Ref.	Part number	Designation	Spec.
B48	EX-D330-B48	1x belt guard	
B49	EX-D330-B49	2x SH button head screw	M4x10
B50	EX-D330-B50	1x plate	
B51	EX-D330-B51	2x SH round-head screw	M6x10
B52	EX-D330-B52	1x SH round-head screw	M8x20
B53	EX-D330-B53	1x hex head screw	M8x45
B54	EX-D330-B54	1x hex nut	M8
B55	EX-D330-B55	1x pointer	
B56	EX-D330-B56	1x dust collection port	
B57	EX-D330-B57	1x clamp	
B58	EX-D330-B58	2x SH round-head screw	M5x12
B59	EX-D330-B59	1x washer	M4
B59-2	EX-D330-B59-2	1x washer	M4
B60	EX-D330-B60	1x cutting depth indicator	
B61	EX-D330-B61	1x indicator arrow	
B62	EX-D330-B62	1x spring	
B63	EX-D330-B63	1x shaft	
B64	EX-D330-B64	1x pointer	
B65	EX-D330-B65	1x spacer	
B66	EX-D330-B66	1x SH round-head screw	M4x12
B67	EX-D330-B67	1x nylon nut	M4
B69	EX-D330-B69	1x motor unit	
B70	EX-D330-B70	3x SH cap screw	M4x12
B72	EX-D330-B72	1x chain	long
B73	EX-D330-B73	1x chain infeed/outfeed roller	short
B75	EX-D330-B75	2x SH round-head screw	M5x20
B76	EX-D330-B76	1x belt	140J-6
B77	EX-D330-B77	1x shaft	
B78	EX-D330-B78	2x safety washer	M5
B79	EX-D330-B79	2x special screw	M5
B80	EX-D330-B80	2x SH round-head screw	M4x16
B81	EX-D330-B81	2x washer	M4
B82	EX-D330-B82	1x washer	M3
B83	EX-D330-B83	1x SH round-head screw	M3x6
B84	EX-D330-B84	2x SH button head screw	M4x25
B86	EX-D330-B86	1x set screw	M4x5
B88	EX-D330-B88	1x washer	M8x2
B88-1	EX-D330-B88-1	1x washer	M8x3
B90	EX-D330-B90	1x warning label	
B91	EX-D330-B91	1x dust collection adapter	
B92	EX-D330-B92	6x star knob screw	M5x12
B93	EX-D330-B93	2x spacer	
B94	EX-D330-B94	1x gear cover	
B95	EX-D330-B95	1x warning label	

11.6 Exploded view and parts list C – motor unit



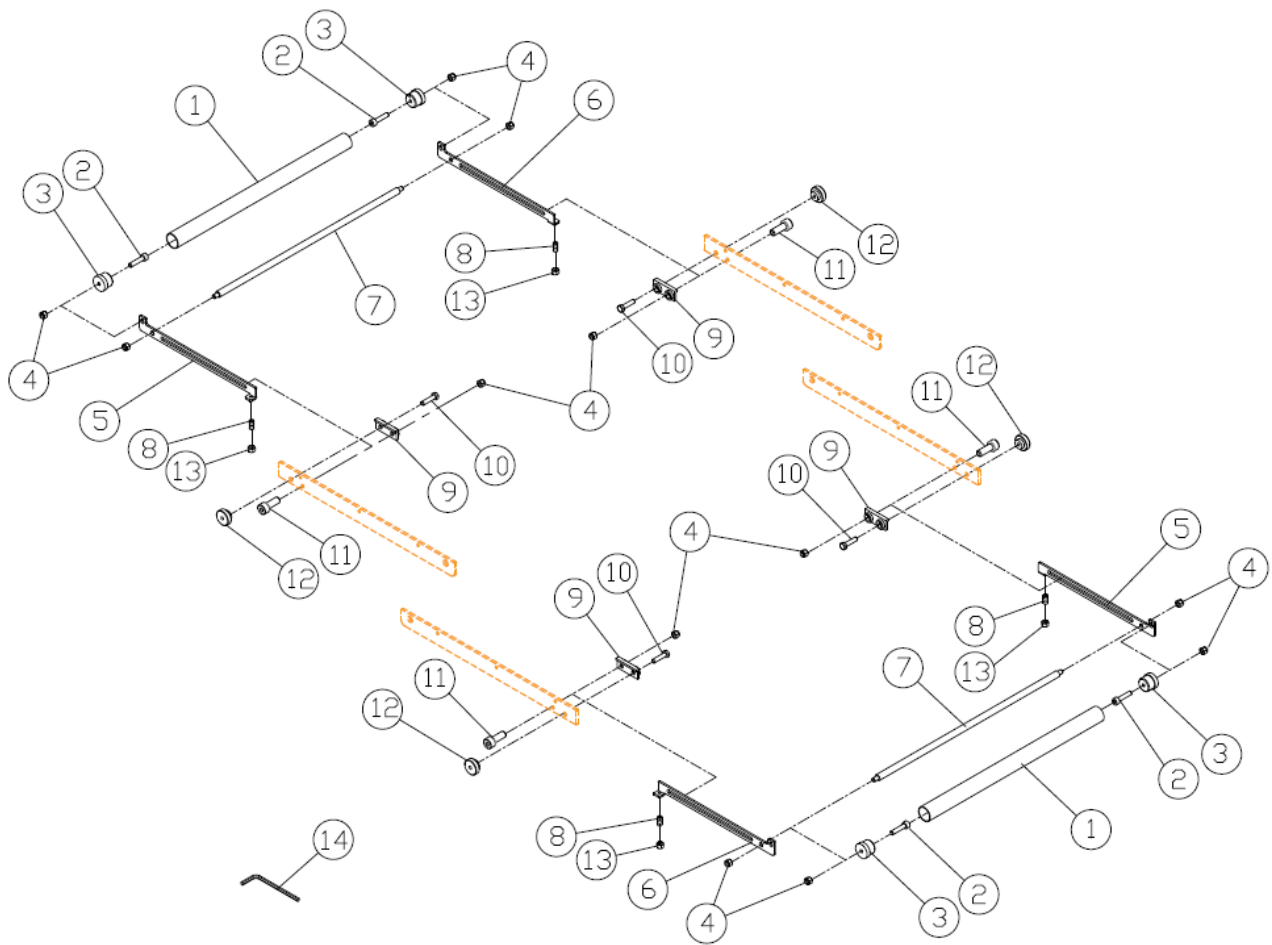
Ref.	Part number	Designation	Spec.
C1A	EX-D330-C1A	1x motor unit (assembly)	
C1	EX-D330-C1	1x motor	
C2	EX-D330-C2	2x motor brush with cap	
C3	EX-D330-C3	1x grounding cable motor	
C4	EX-D330-C4	1x overload protection	10A
C5	EX-D330-C5	1x switch plate	
C6	EX-D330-C6	5x cross head panhead screw	M4.8x12
C7	EX-D330-C7	1x switch	
C8	EX-D330-C8	1x motor pulley	
C11	EX-D330-C11	1x set cross head panhead screw	M5x16
C12	EX-D330-C12	1x set cross head panhead screw	M5x35
C13	EX-D330-C13	1x power cord	
C14	EX-D330-C14	1x strain relief	
C15	EX-D330-C15	1x overload cable	
C16	EX-D330-C16	1x switch cover	
C16A	EX-D330-C16A	1x switch cover sponge	
C17	EX-D330-C17	1x nameplate	
C19	EX-D330-C19	1x logo	110x60mm
C20	EX-D330-C20	2x clamp	

11.7 Exploded view and parts list D - cutterhead



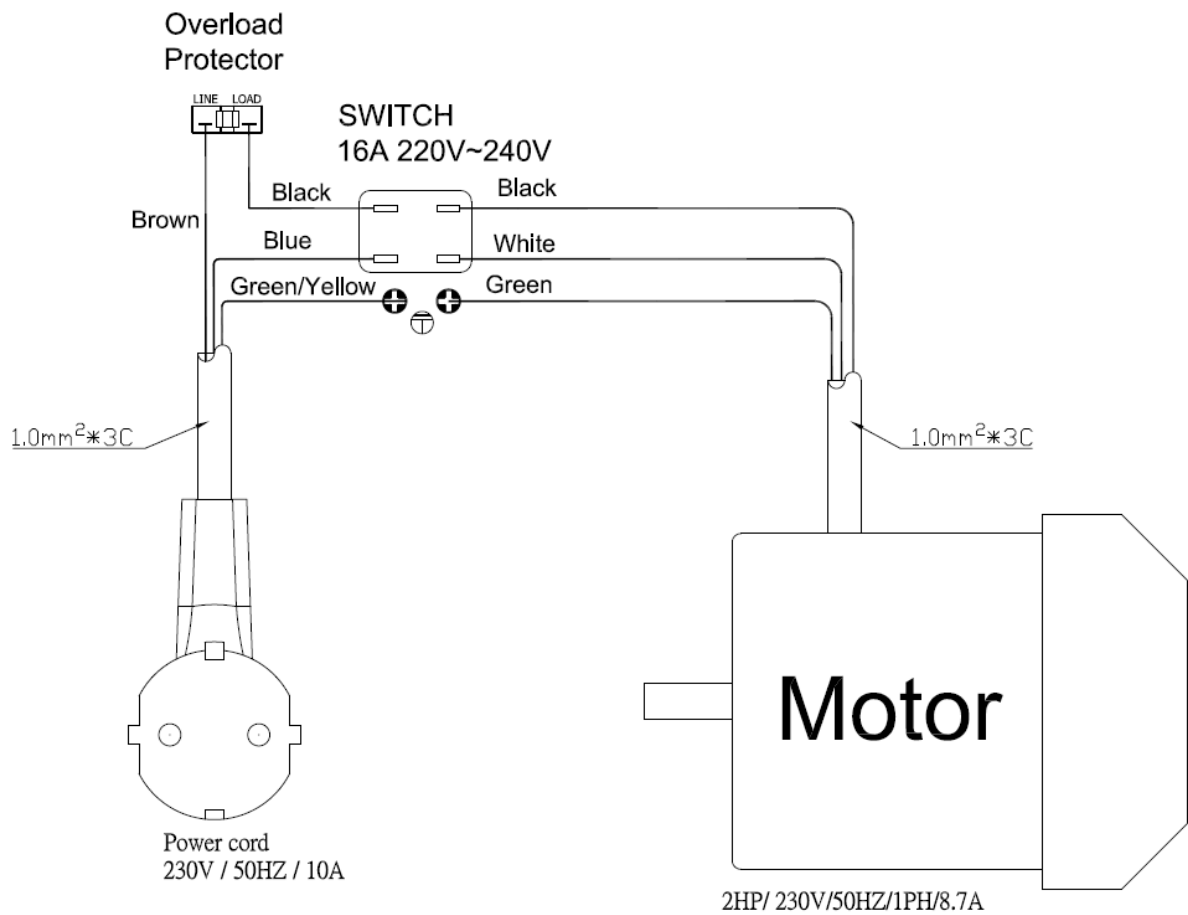
Ref.	Part number	Designation	Spec.
D1	EX-D330-D1	1x gear shaft	12 T
D2	EX-D330-D2	2x ball bearing	6203ZZ
D3	EX-D330-D3	3x SH round-head screw	M5x12
D4	EX-D330-D4	1x cutterhead	330 mm
D4A	EX-D330-D4A	5x pin	
D5	EX-D330-D5	1x bearing housing	
D6	EX-D330-D6	1x spindle pulley	
D7	EX-D330-D7	1x nut (left-hand thread)	M16x2
D8	EX-D330-D8	26x knife	
D9	EX-D330-D9	26x screw	M5x15
D10	EX-D330-D10	1x star head T-bar key	
D11	EX-D330-D11	1x key	5x5x12
D12	EX-D330-D12	1x hex key	4 mm
D13	EX-D330-D13	4x flat head screw	M5x15

11.8 Exploded view and parts list E - eccentric rod unit



Ref.	Part number	Designation	Spec.
E01	EX-D330-E01	2x eccentric rod	
E02	EX-D330-E02	4x SH cap screw	M5x22
E03	EX-D330-E03	4x rod seat	
E04	EX-D330-E04	12x nylon nut	M5
E05	EX-D330-E05	2x extension plate right	
E06	EX-D330-E06	2x extension plate left	
E07	EX-D330-E07	2x fixed rod	
E08	EX-D330-E08	4x set screw	M4x10
E09	EX-D330-E09	4x fixed plate	
E10	EX-D330-E10	4x hex head screw	M5x20
E11	EX-D330-E11	4x SH cap screw	M5x15
E12	EX-D330-E12	4x nut	
E13	EX-D330-E13	4x nut	M4
E14	EX-D330-E14	1x hex key	2 mm

11.9 Wiring diagram





EXMAC