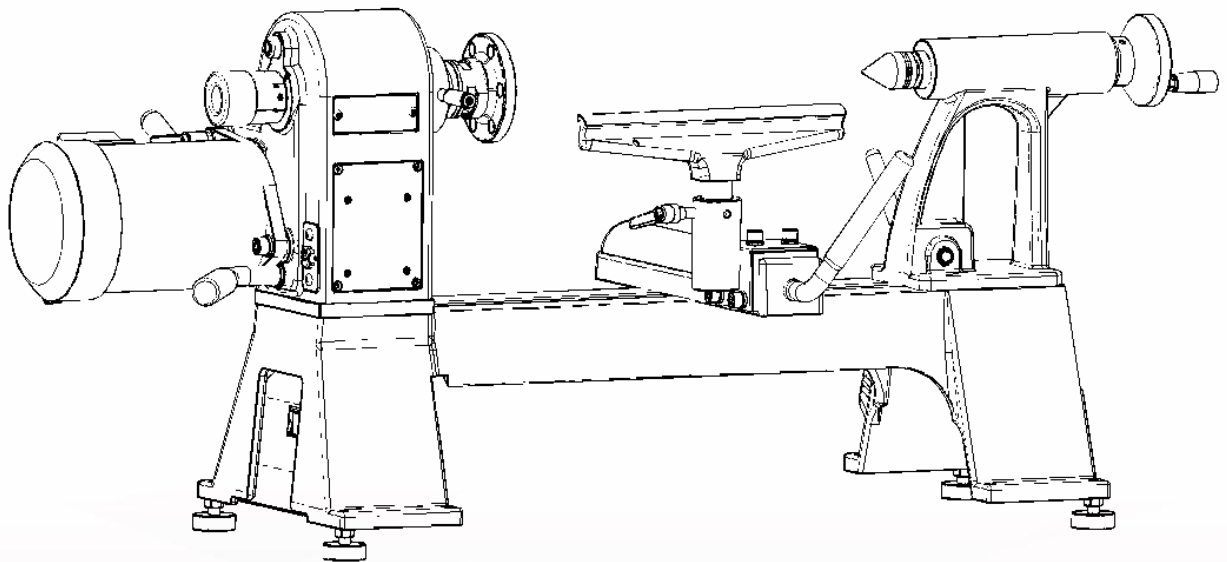


DRECHSELMEISTER

Woodturning Lathe

MIDI 3

Original Operating Instructions



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Original Operating Instructions Version 2025_V01_EN

DDMIDI3



DRECHSELMEISTER



NEUREITER Maschinen und Werkzeuge

Gewerbegebiet Brennhoflehen

Kellau 167

A-5431 Kuchl

Tel.: +43(0)6244/20299 | Fax: +43(0)6244/20299-10

E-mail: kontakt@neureiter-maschinen.at

www.neureiter-maschinen.at | www.drechselmaschinen.at | www.neureiter-shop.at

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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 this manual 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				

1.2.3 Prohibition signs

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

Sign	Meaning
	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		Risk of injuries due to sharp tips
	Risk of fire		General warning
	Risk of hand injuries		

1.2.5 Other signs

Sign	Meaning	Sign	Meaning
	Environmentally hazardous substances		Do not dispose of in household waste
	Spindle centre at elbow height		

1.2.6 Warning labels on the machine

WARNING



Risk of injury if warning labels are ignored!

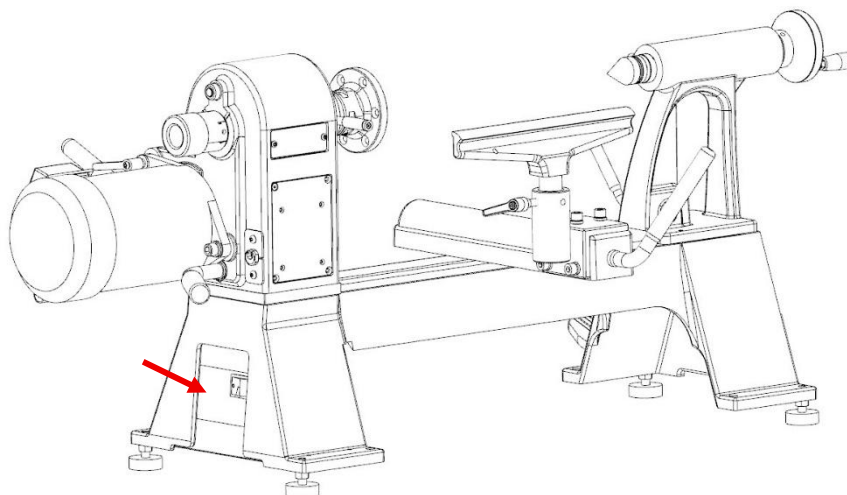
Warning labels on the machine are for safety reasons. Failure to observe them can lead to injuries.

- 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
This inverter is an electronic component and is only intended and programmed for its original use. This inverter is to be serviced by an authorized service representative only. Do not open! 	Warning of opening the frequency inverter The frequency inverter is an electronic component which is only intended and programmed for its original use. The frequency inverter is to be serviced by an authorized specialist only. Do not open!

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



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 the instructions
- 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 recognized 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 **MIDI 3** lathe is used to produce rotary bodies. Usually, a workpiece attached to the spindle is set in rotation by the drive and is then machined by hand with a cutting tool to achieve the desired shape.

The **MIDI 3** can be used for machining different materials. Depending on the material, a suitable holding method and, subsequently, the right tool must be chosen.

Examples of materials that can be machined:

- Wood (all types)
- Non-ferrous metal (e.g. aluminium, brass, copper)
- Horn, teeth, bone
- Certain soft stones (e.g. soapstone, alabaster)
- Nuts, seeds, cones

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 use of a suitable dust collector is recommended. For commercial use, an automatic chip and dust collector approved by the professional association must be installed.

The lathe **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.
- Use a suitable residual-current circuit breaker.
- Only connect a type F plug to an earthed socket.
- Do not modify plugs.
- Do not use adapter plugs.
- 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.
- Avoid physical contact with earthed surfaces (pipes, heaters, etc.).

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.

- Before connecting the machine to the power supply and before transporting the machine, make sure that the machine is switched off.
- 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.
- 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, there is a risk that it will tip over and cause injuries. Objects placed on the machine could fall and lead to injuries.

- Make sure the machine is stable.
- Screw the machine to the installation surface if necessary.
- Avoid storing objects on or around the machine.
- Do not climb onto 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, keys or loose objects that have not been removed!

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

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

WARNING



Risk of injury due to unbraked workpiece!

In the event of a power failure or frequency inverter overheating, the workpiece is no longer slowed down. Touching the workpiece or attempting to stop it poses a risk of injury.

- Allow the workpiece to come to a stop by itself.

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 tools!

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

- Follow the maintenance instructions in this manual.
- Maintain the machine and tools with care.
- Keep tools 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 changing accessories or 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. For commercial use, an automatic chip and dust collector approved by the professional association must be installed.

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 notices 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 (attend a woodturning class).

2.5 Safety devices

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

WARNING

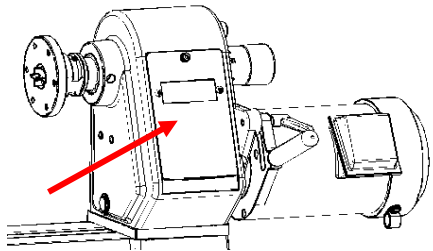
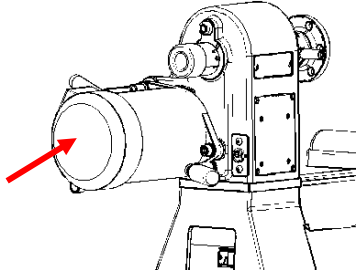
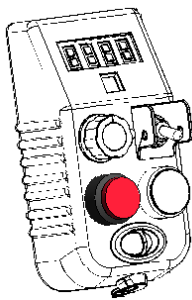


Risk of injury due to defective or missing safety devices!

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

Protective belt drive cover The protective cover prevents access to the moving parts of the belt drive. A tool is required to open the protective cover.	
Motor cover The motor cover prevents access to the fan wheel.	
Emergency stop switch The emergency stop switch on the mobile control box allows the machine to be switched off quickly in dangerous situations.	

3 Machine description

3.1 Functional description

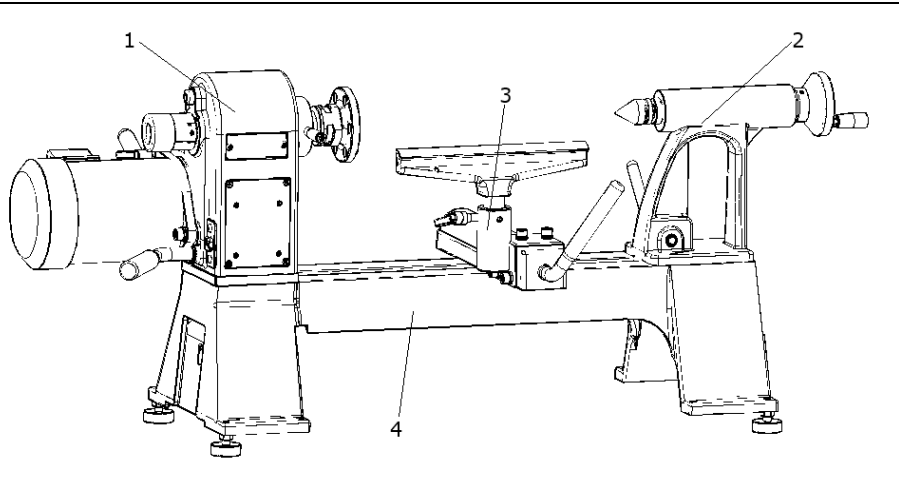
A lathe is a machine used to work on mostly cylindrical or prismatic workpieces, primarily made of wood. The workpiece is either clamped between headstock and tailstock using special fixing devices or mounted on the headstock using a special clamping device (chuck, faceplate).

The electric motor attached to the headstock drives the machine's spindle via a belt that runs over three-stage pulleys, causing the clamped workpiece to rotate. The selected pulley stage determines the speed range. The fine tuning of the motor speed is done via a frequency inverter.

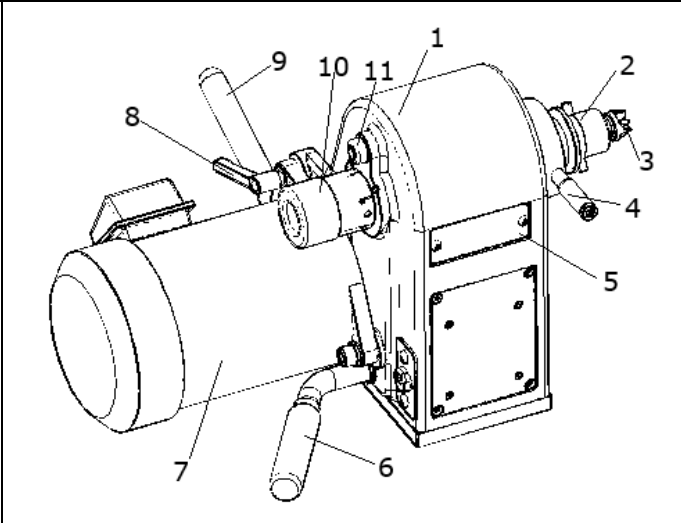
A woodturning tool is placed on the tool rest, which is mounted on a sliding banjo, and moved towards the workpiece to give it the desired shape.

3.2 Description of the lathe

3.2.1 Main components

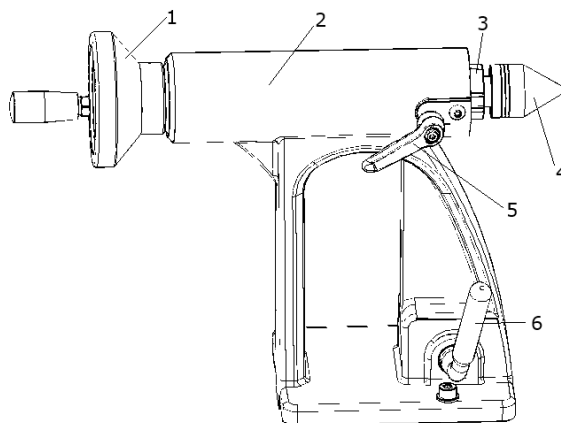
Main components	
1. Headstock 2. Tailstock 3. Tool rest 4. Bed	

3.2.2 Subcomponents

1 Headstock	
1. Headstock body 2. spindle 3. 4-prong drive centre 4. Spindle locking pin 5. Pulley viewing window 6. Headstock clamping lever 7. motor 8. Motor fixing lock handle 9. Motor tensioning lever 10. Handwheel for indexing device 11. Index locking pin	

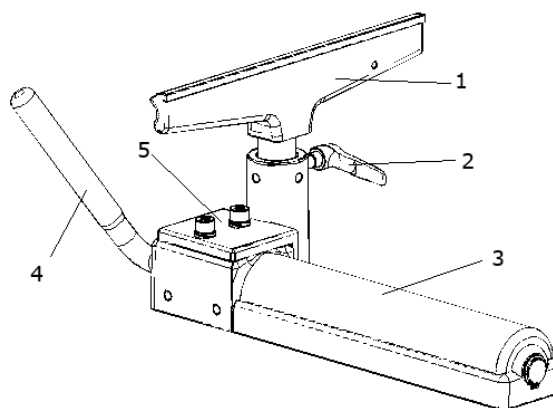
2 Tailstock (rear view)

1. Handwheel
2. Tailstock body
3. Quill
4. Live centre
5. Quill lock handle
6. Tailstock clamping lever



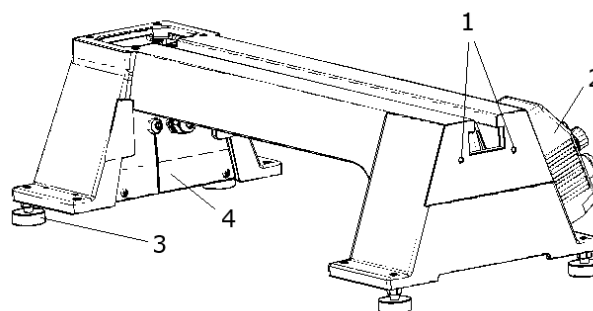
3 Tool rest

1. Tool rest
2. Tool rest lock handle
3. Banjo
4. Banjo clamping lever
5. Angle bracket



4 Bed

1. Holes for fixing the bed extension
2. Mobile control box
3. Height-adjustable machine foot
4. Frequency inverter



3.3 Technical data

Machine	Length	approx. 1105 mm
	Width	approx. 400 mm
	Height	approx. 465 mm
	Weight (net)	approx. 58 kg
	Distance between centres	approx. 400 mm
	Centre height	190 mm
	Turning diameter	378 mm
Drive	Type of drive	Three-phase motor
	Protection code	IP54
	Voltage	~230 volts
	Power	750 W (1 HP)
	Frequency	50 Hz
	Speed	1,420 rpm
	Drive belt	Poly V belt
	Speed ranges (belt stages)	3 Stage L: 60 – 1,000 rpm Stage M: 150 – 1,900 rpm Stage S: 350 – 3,660 rpm
Power supply	Voltage	~230 volts
	Phases	L1-N-PE
	Frequency	50 Hz
Headstock	Spindle thread	M33 x 3.5 mm (with ASR safety groove)
	Bore	10 mm through hole
	Taper	Morse taper 2 (MT2)
	Indexing device	24 positions (15-degree increments)
	Swivelling	0-180°
Tailstock	Bore	10 mm through hole
	Taper	Morse taper MT2
	Quill	Quick change quill with 100 mm quill travel
	Quill thread	Trapezoidal thread
Tool rest	Length	250 mm
	Post diameter	1" (25.4 mm)
faceplate	Diameter	95 mm
Paint	Telegrey	RAL 7047
	Sapphire blue	RAL 5003
Noise emission	Sound pressure level	<79 dB(A)



The measurement is carried out in accordance with the standards EN ISO 3744:2010, EN ISO3746:2010 & EN ISO 11203:2009.

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)	MIDI 3 1514EV KC-INV	
Motor / Power	1 / N / PE 230V/50 Hz 0,75 kW	
Techn. Daten / Specification	0 – 3.700 U/min (RPM) M33x3,5 MK 2	
Baujahr / Year	MM-YYYY	
Gewicht / Weight	58 kg	
Serien-Nr. / Serial No.	A FU - XXXX	
 Neureiter Maschinen GmbH Kellau 167, AT-5431 Kuchl		

3.4 Installation site requirements

Requirement	Recommendation
Installation site	Place the machine near a power source (type F socket) on a solid, level and stable installation surface (workbench, table, optional stand).
Lighting	If possible, place the machine near a window. Pay attention to good lighting (illuminances according to DIN 5035). Artificial light should come from above, but not fall directly into the eyes. Additional adjustable lighting at the workstation prevents a shadow from being cast on the workpiece. This light source should provide at least 300 (better 500) lux at the cutting edge of the tool.
Ventilation	Ensure adequate ventilation. The degree of ventilation depends on the size of the workshop and the number of manufactured workpieces. Use a suitable dust collector and/or an air filtering system to reduce the health risk from dusts.
Ambient temperature	+10°C to +32°C (climate class SN)
Working height	Comfortable working height depending on user's body size. Spindle centre at elbow height. 
Working space	Make sure there is sufficient space around the machine for handling the workpieces and for swivelling the headstock. Make sure there is sufficient space for optional accessories if necessary. Leave a space of at least 80 cm around the lathe for repair and maintenance work. Other machines installed in the workshop must not interfere with the operation of the lathe.

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



The machine is designed for a voltage of ~230 V (±10%) according to IEC 60038.

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

- Use a suitable standard type F socket (~230 V, 16-amp fuse).
- Observe the indications in these operating instructions.

4 Transport, packaging and storage

4.1 Transport dimensions

Dimensions	Length	900 mm
	Width	420 mm
	Height	530 mm
Weight	Gross	65 kg

4.2 Notes on storage and transport

NOTICE



Possible damage to the machine due to incorrect storage!

Improper storage of the machine may result in damages to parts of the machine. If the lathe is not used for more than a year, the electrolytic capacitors may deteriorate and cause starting problems.

- 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.
- If the machine is not used for a period of more than 3 months, ensure that the ambient temperature is below 30°C.
- Avoid storing the machine for excessively long periods.
- 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, hold the machine by the bed, not by the centres.

4.3 Notes on packaging

The packaging is intended to protect components from damage and corrosion. 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 Unpacking

WARNING



Risk of crushing when unpacking the machine!

The machine and some of its components are heavy. When unpacking, there is a risk of body parts being crushed.

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

WARNING



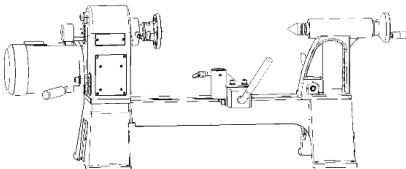
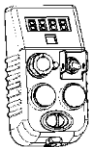
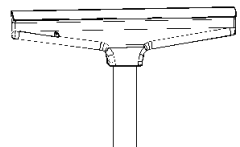
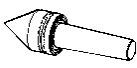
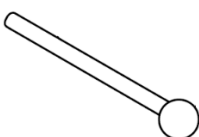
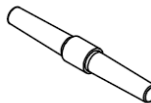
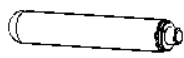
Risk of injury due to sharp tips!

Certain components of the machine, such as drive centre and live centre, have sharp tips. In case of contact, there is a risk of injury.

- Avoid touching the components' tips.
- Be particularly careful when handling near the components.
- Remove sharp components from the machine if necessary.

1. Before unpacking, check the box for damages.
2. Remove the machine and its components from the packaging.
3. Remove the packaging material.
4. Moisten a cloth with a suitable cleaning agent and use it to remove the corrosion protection from all bare machine parts.
5. Check the content of the delivery for completeness.
6. If any parts are missing, contact the dealer.
7. Do not start up the machine until all parts are present and assembled.

4.5 Transport package content

			
1x machine	1x control box	1x tool rest	1x live centre
			
4x machine foot with hex nut	1x spindle locking pin	1x key for releasing the faceplate	1x 4-prong drive centre
			
1x knockout bar	1x double taper	1x index locking pin	1x motor tensioning lever

5 Assembly

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.



WARNING



Risk of injury due to improper assembly!

Improper assembly can increase the risk of injury.

- Assemble the machine as described.

WARNING



Risk of crushing during assembly of the machine!

The machine and some of its components are heavy. During assembly, there is a risk of body parts being crushed.

- Assemble the machine with the help of a second person.
- Only lift heavy components with the help of a second person.
- Be careful during assembly of the machine.
- Make sure that no limbs are under or between machine components.

WARNING



Risk of injury due to sharp tips!

Certain components of the machine, such as drive centre and live centre, have sharp tips. In case of contact, there is a risk of injury.

- Avoid touching the components' tips.
- Be particularly careful when handling near the components.
- Remove sharp components from the machine if necessary.

NOTICE

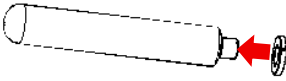
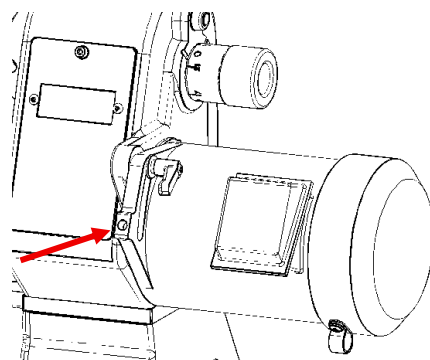
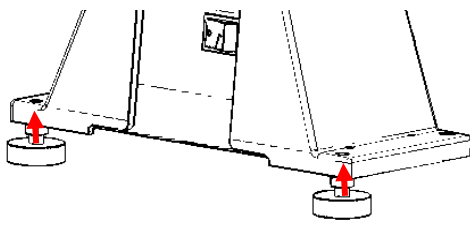


Possible damages to the machine!

When setting up the machine, there is a risk that cables may be crushed or damaged, or that the painting may be damaged.

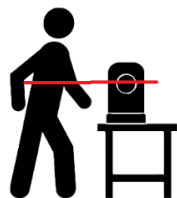
- Pay attention to the cables during assembly.
- If necessary, place a cardboard box underneath during assembly.

The machine is delivered largely pre-assembled.

1. Lift the machine out of the packaging with the help of a second person. 2. Remove all parts from the packaging.	
3. Slide the circlip onto the thread of the motor tensioning lever.	
4. Screw the motor tensioning lever with the circlip into the hole on the motor flange.	
5. Screw all four machine feet, with the hex nuts attached, from below into the outer holes on the base. 6. Place the machine on a solid, level and stable installation surface (workbench, table). 7. Level the machine using the machine feet. 8. Make sure the machine's spindle centre is at elbow height.	

5.1 Work ergonomics

CAUTION



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

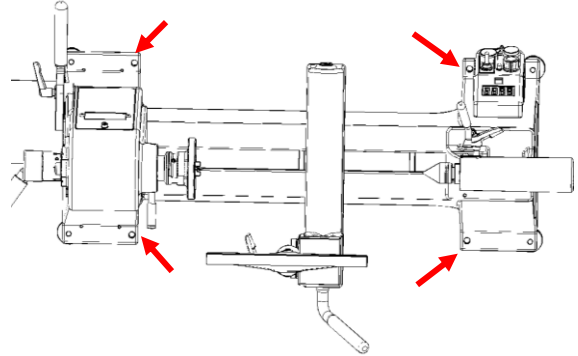
Incorrect positioning of the machine and unsuitable posture can lead to posture problems and rapid fatigue which may increase the risk of accidents. They also make it more difficult to guide tools and shape objects.

- Maintain a good posture, ensure secure footing and maintain balance at all times.
- Position the machine at a comfortable height (spindle centre at elbow height when standing upright).
- Pay attention to an ergonomic posture.

5.2 Screwing the lathe to a table or workbench

The machine's base is equipped with holes with a diameter of approx. 7 mm (base thickness approx. 1.9 mm) with which the machine can be attached to the installation surface.

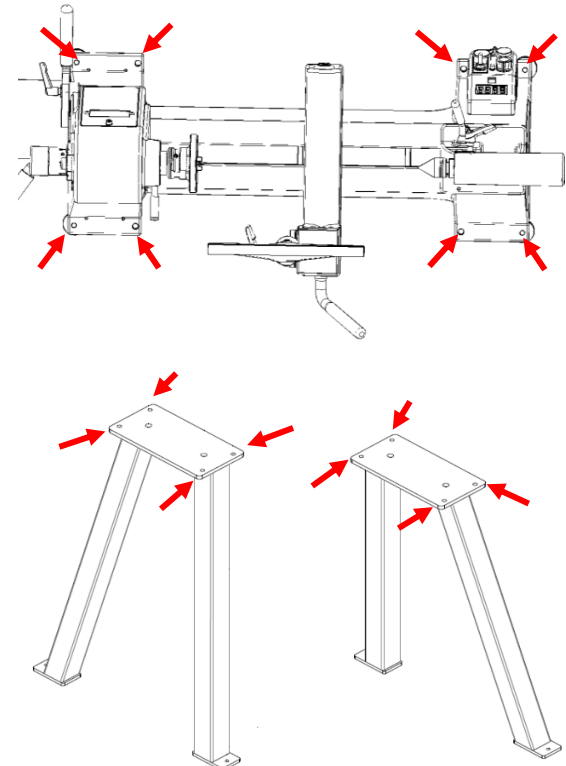
1. Mount the machine feet as described in the previous chapter.
2. Place the machine on the installation surface.
3. Level the machine using the machine feet if necessary.
4. Identify the holes for mounting (see adjacent illustration).
5. Mark the position for the holes.
6. Take the machine from the installation surface.
7. Drill suitable holes into the installation surface.
8. Place the machine on the installation surface and align it with the holes.
9. Screw the machine to the installation surface using appropriate screws (not included).



5.3 Mounting the lathe on an optional stand

As an alternative to setting up or mounting on a table or workbench, the lathe can also be mounted on an optionally available stand.

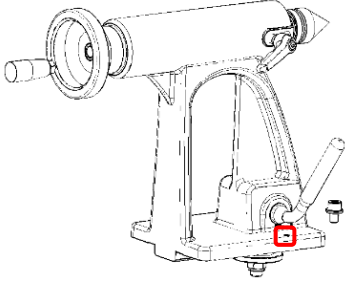
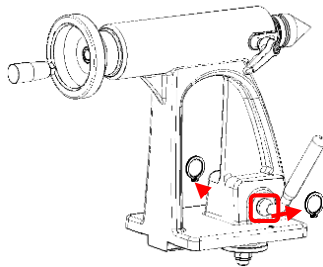
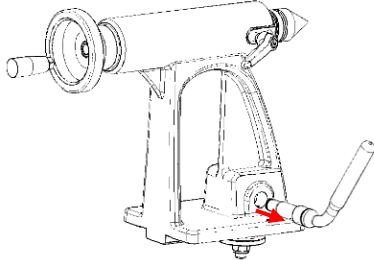
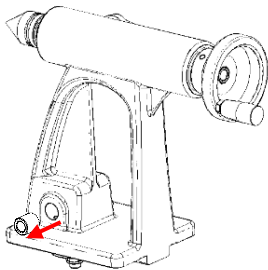
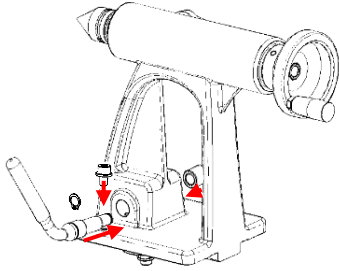
1. Remove the machine feet from the machine.
2. Attach the machine feet to the lower side of the legs of the stand.
3. Place the machine on the stand and align the holes in the bed with the holes in the stand.
4. Insert four screws per leg from above into the holes of bed and stand and lock them from below.



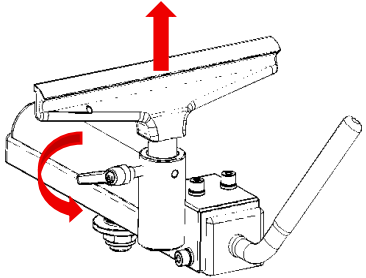
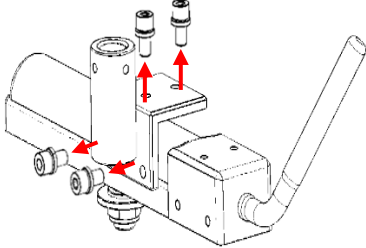
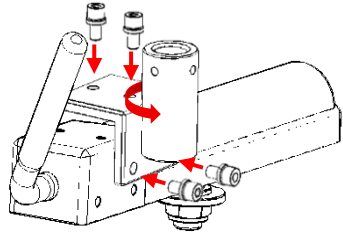
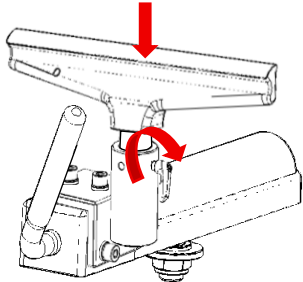
5.4 Converting the lathe for left-handers

The machine's tailstock and banjo are factory-configured for right-handed use. The machine can be adapted for left-handed use:

5.4.1 Converting the tailstock

1. Remove the stop screw and washer below the clamping lever.	
2. Use circlip pliers to remove the two circlips.	
3. Remove the clamping lever.	
4. Remove the bearing bush (made of brass) using the supplied knockout bar.	
5. Press the bearing bush into the hole on the opposite side of the tailstock or tap it in with a plastic mallet (or a hammer in conjunction with a wooden block) 6. Insert the clamping lever on the other side. 7. Insert the circlips. 8. Insert the stop screw and the washer and tighten it.	

5.4.2 Converting the banjo

1. Loosen the tool rest lock handle. 2. Remove the tool rest from its holder and put it aside.	
3. Remove the four screws securing the angle bracket to the banjo, including the circlips.	
4. Move the angle bracket to the right-hand side of the banjo. 5. Secure the angle bracket with the previously removed screws and circlips.	
6. Reinsert the tool rest. 7. Tighten the tool rest lock handle.	

WARNING



Risk of injury due to parts coming off!

When using the machine in left-handed mode, accessories (chucks, faceplates) may come off the spindle and cause injuries.

- In left-handed mode, only use chucks, faceplates and the like with a safety system preventing them from coming off (ask a dealer if necessary).

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



Risk of crushing when setting the machine!

Some components are heavy. When setting the machine, there is a risk of body parts being crushed.

- Only lift heavy components with the help of a second person.
- Be careful when setting the machine.
- Make sure that no limbs are under or between machine components.

WARNING



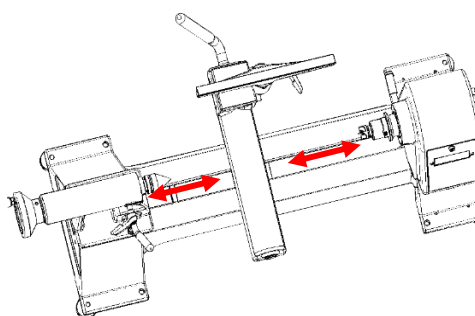
Risk of injury due to sharp tips!

Certain components of the machine, such as drive centre and live centre, have sharp tips. In case of contact, there is a risk of injury.

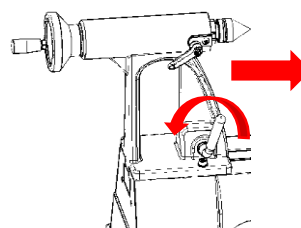
- Avoid touching the components' tips.
- Be particularly careful when handling near the components.
- Remove sharp components from the machine when they are not in use.

6.1 Moving the banjo or tailstock

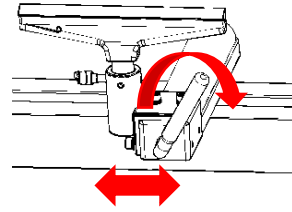
The groove in the bed makes it easy to move the tailstock and the banjo along the bed.



1. Loosen the tailstock clamping lever (on the rear side).
2. Move the tailstock to the desired position.
3. Tighten the clamping lever.



1. Loosen the banjo clamping lever.
2. Move the banjo to the desired position.
3. Tighten the clamping lever.



6.2 Removing the banjo or tailstock from the bed

WARNING

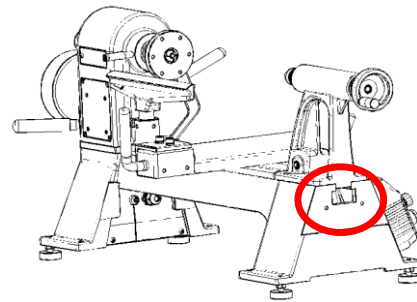


Risk of crushing!

The cast iron machine components are heavy. When removing the components, there is a risk of body parts being crushed.

- Make sure that no limbs are under or between components.
- Be careful when removing the components.

For certain adjustments and certain turning operations, it is necessary to remove the tailstock and/or banjo from the bed. The opening at the tailstock end makes it easy to slide both the tailstock and the banjo off the bed.



6.3 Removing the faceplate from the spindle (locking the spindle)

The lathe is supplied with a 95 mm faceplate (possibly already mounted).

To remove the faceplate (or other accessories) from the spindle, proceed as follows:

NOTICE

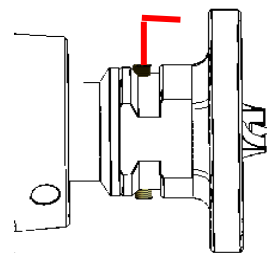


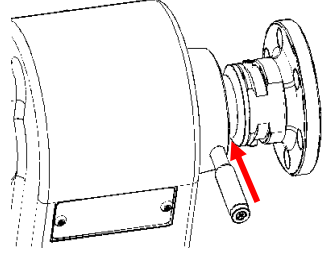
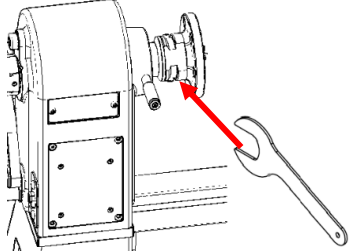
Possible machine damages due to unintentional start-up!

In the event of an unintentional start-up, the machine's belt will be damaged.

- Switch off the machine before locking the spindle.

1. Use the supplied hex key to unscrew the two socket head screws, which prevent the faceplate from coming loose from the faceplate.



2. Insert the spindle locking pin into the hole on the spindle to lock the spindle.	
3. Use the supplied faceplate key to loosen the faceplate.	

6.4 Ejecting and changing the drive centre

WARNING



Risk of injury due to sharp tips!

The 4-prong drive centre has sharp tips. In case of contact, there is a risk of injury.

- Avoid touching the tips of the 4-prong drive centre.
- Be particularly careful when handling near the 4-prong drive centre.

WARNING



Risk of injury due to insert tools falling out!

Grease or oil on the insert tool taper or in the spindle shaft reduce friction. In this case, the insert tool could fall out.

- Do not oil or grease tapers.

NOTICE



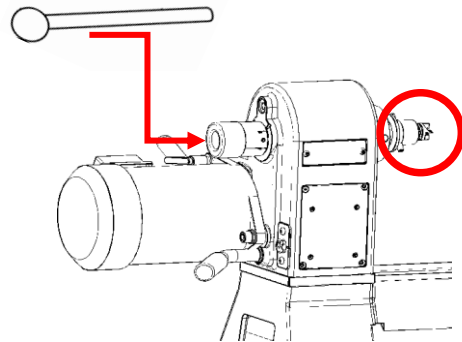
Possible damages to the machine!

Even the slightest contamination in the spindle shaft or on the insert tool can lead to damages in the spindle shaft. Contamination also impairs the power transmission.

- Clean both the insert tool taper and the spindle shaft with a dry, clean cloth or a bottle brush **every time** the insert tool is changed.

The MT2 Morse taper of the spindle holds insert tools by friction. To change the insert tool, proceed as follows:

1. Insert the supplied knockout bar from the motor side into the through hole of the headstock (through the handwheel).
2. Hold the 4-prong drive centre on the outside with one hand.
3. Eject the 4-prong drive centre by pushing it slowly.
4. Store the 4-prong drive centre safely.
5. Insert the new insert tool quickly and firmly by hand (without tapping it with a mallet).



6.5 Changing the live centre and tailstock inserts

WARNING



Risk of injury due to sharp tip!

The live centre has a sharp tip. In case of contact, there is a risk of injury.

- Avoid touching the live centre's tip.
- Be particularly careful when handling near the live centre.
- Remove the live centre from the tailstock when not in use.

WARNING



Risk of injury due to falling insert tools!

Grease or oil on the insert tool taper or in the tailstock quill reduce friction. In this case, the insert tool could fall out. If tools with an extended Morse taper are used, they may not yet be firmly locked when the quill scale indicates zero.

- Do not oil or grease tapers.
- Use the handwheel to extend the quill towards the headstock until the taper is firmly locked.

NOTICE

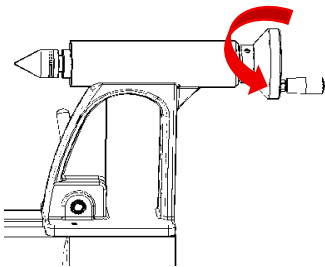
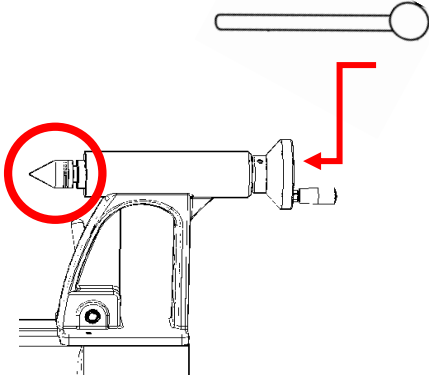


Possible damages to the machine!

Even the slightest contamination in the quill or on the insert tool can lead to damages in the quill. Contamination also impairs the power transmission.

- Clean both the insert tool taper and the quill with a dry, clean cloth or a bottle brush **every time** the insert tool is changed.

The MT2 Morse taper of the quill holds insert tools by friction. To change the insert tool, proceed as follows:

1. Eject the insert tool by turning the tailstock handwheel counterclockwise. 2. Insert the new insert tool quickly and firmly by hand (without tapping it with a mallet).	
As an alternative, the knockout bar can be used: 1. Insert the supplied knockout bar from the handwheel side into the through hole of the tailstock (through the handwheel). 2. Hold the live centre on the outside with one hand. 3. Eject the live centre by pushing it slowly. 4. Store the live centre safely. 5. Insert the new insert tool quickly and firmly by hand (without tapping it with a mallet). 6. Always ensure that the insert tool is firmly seated in the taper.	

6.6 Swivelling the headstock

WARNING



Risk of injury due to unintentional start-up!

There is a risk of injury if the machine starts accidentally when swivelling the headstock. The machine may also suffer damages.

- Before swivelling the headstock, switch off the machine and disconnect it from the power supply.



WARNING

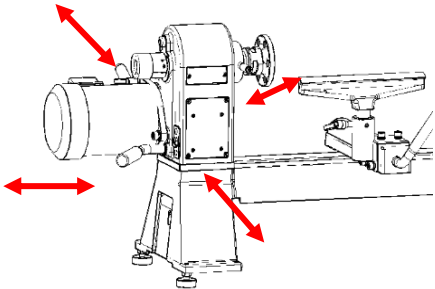
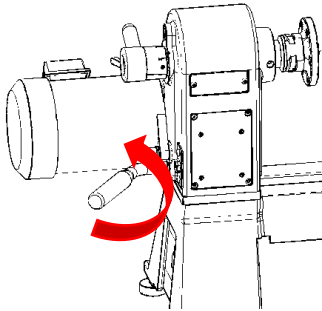
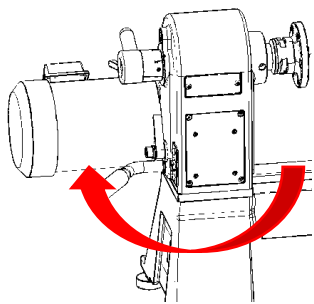
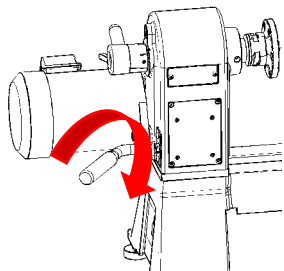


Risk of injury due to the machine tipping over or slipping!

When processing heavy, unbalanced and large workpieces with swivelled headstock, the machine may tip over or slip. There is a risk of injury.

- Screw the machine to the installation surface if necessary.

The headstock can be swivelled up to 180° with detent positions at 30°, 60° and 90°.

1. Ensure there is sufficient space for swivelling the headstock.	
2. Loosen the headstock clamping lever by turning it counterclockwise.	
3. Swivel the headstock to the desired position.	
4. Tighten the clamping lever by turning it clockwise.	

6.7 Aligning the headstock

After having swivelled the headstock and for turning between centres, the headstock needs to be aligned.

WARNING



Risk of injury due to unintentional start-up!

There is a risk of injury if the machine starts accidentally when aligning the headstock. The machine may also suffer damages.



- Before aligning the headstock, switch off the machine and disconnect it from the power supply.

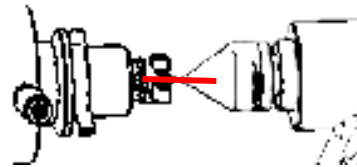
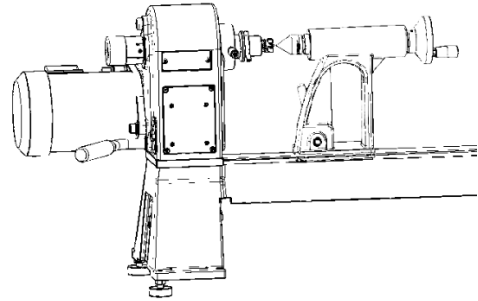
6.7.1 Aligning with double taper

1. Eject the insert tools from the tailstock and headstock. 2. Remove the tool rest. 3. Slide the banjo all the way up to the headstock or remove the banjo from the bed. 4. Loosen the headstock clamping lever. 5. Move the headstock to zero position. 6. Leave the headstock clamping lever released.	
7. Insert the double taper into the tailstock quill.	
8. Loosen the tailstock clamping lever. 9. Slide the tailstock towards the headstock. 10. Insert the protruding end of the double taper into the spindle shaft. The double taper should slide in without any resistance. If necessary, adjust the position of the headstock. 11. If necessary, grip the motor tensioning lever of the released headstock with one hand and the tailstock with the other hand and agitate in opposite directions. 12. Tighten the headstock clamping lever without moving the headstock.	

6.7.2 Aligning with the centres

As an alternative to aligning the headstock with the double taper, the headstock can also be adjusted by aligning the tips of 4-prong drive centre and live centre. However, this method is less accurate.

1. Remove the tool rest.
2. Slide the banjo all the way up to the headstock.
3. Insert the 4-prong drive centre into the headstock.
4. Insert the live centre into the tailstock.
5. Loosen the headstock clamping lever.
6. Move the headstock to zero position.
7. Leave the headstock clamping lever released.
8. Loosen the tailstock clamping lever.
9. Slide the tailstock towards the headstock.
10. Align the live centre tip with the central tip of the 4-prong drive centre.
11. Tighten the headstock clamping lever without moving the headstock.



6.8 Changing the speed range

The machine is equipped with three-stage pulleys, providing three different speed ranges. Especially when processing larger workpieces, it is necessary to select a lower speed range to protect the motor.

The following speed ranges are available:

Pulley stage	Speed range
L (low)	60 – 1,000 rpm
M (medium)	150 – 1,900 rpm
S (fast)	350 – 3,660 rpm

To change the speed range, it is necessary to change the position of the drive belt on the pulleys.

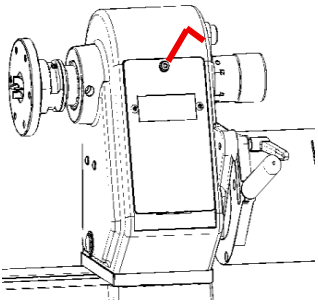
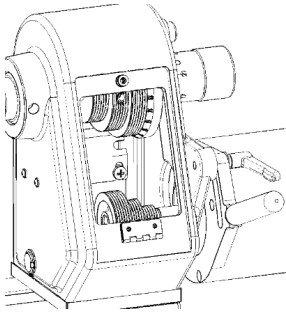
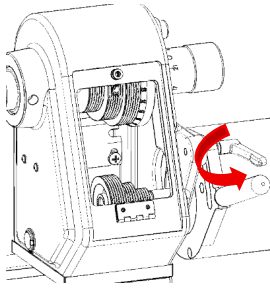
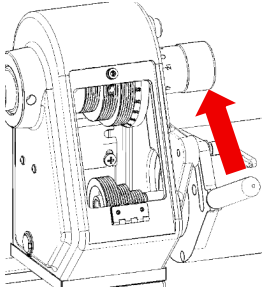
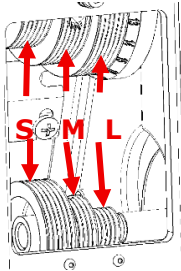
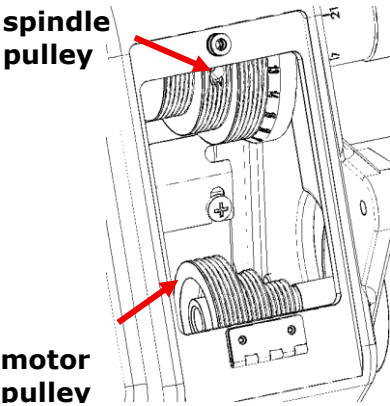
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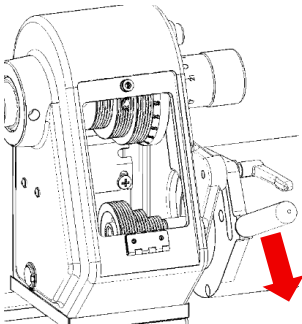
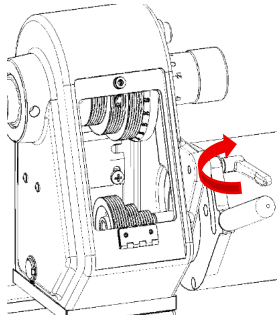
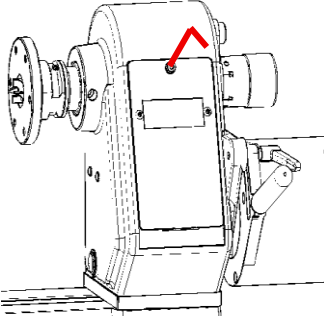


Risk of injury due to unintentional start-up!

There is a risk of injury, if the machine starts accidentally when changing the speed range.

- Before changing the speed range, switch off the machine and disconnect it from the power supply.

1. Switch off the machine and disconnect it from the power supply (pull the plug). 2. Loosen the socket head screw on the headstock protective cover.	
3. Open the protective cover.	
4. Loosen the lock handle on the motor flange.	
5. Push the motor tensioning lever forward to release the belt tension.	
6. Change the position of the belt on the motor and spindle pulleys as needed. 7. Make sure that the belt is properly seated in the grooves of the pulleys. 	 spindle pulley motor pulley

8. Pull the motor tensioning lever backwards to tension the belt.	
9. Tighten the lock handle.	
10. Close the headstock protective cover. 11. Tighten the socket head screw. 12. Plug in the power plug.	

6.9 Using the indexing device

The lathe's three-stage spindle pulley is equipped with 24 holes, allowing the workpiece to be precisely divided. This is useful, for example, for precise drilling at different points or for decorations. One rotation to the next step of the indexing device corresponds to 15°. The setting can be read from the handwheel scale or through the viewing window on the headstock.

NOTICE



Possible machine damages due to unintentional start-up!

In the event of an unintentional start-up, the machine's belt will be damaged.

- Switch off the machine before using the indexing device.
- Never switch on the machine when the indexing device is engaged.

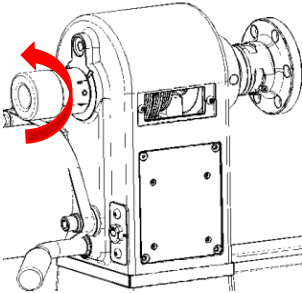
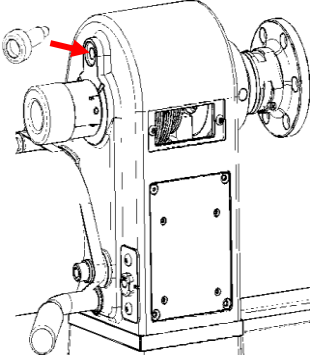
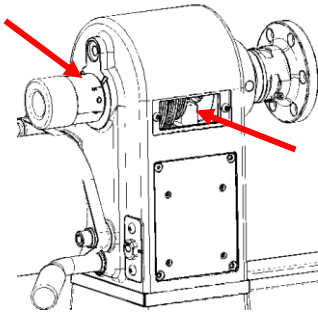
NOTICE



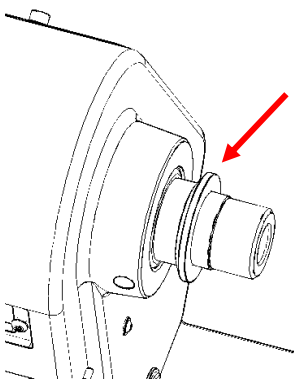
Possible machine damages due to a wrong use of the locking pin!

If the locking pin of the indexing device is used to lock the spindle in place to remove accessories (faceplate, chuck), the machine may be damaged.

- Never use the locking pin of the indexing device for removing accessories from the spindle.

1. Use the handwheel to select the desired setting.	
2. Insert the locking pin into the hole above the handwheel to secure the position.	
3. Read the setting on the handwheel or through the viewing window. 4. To select the next step, remove the locking pin, turn the handwheel and insert the locking pin again. 5. After finishing work, remove the locking pin and store it safely. The locking pin is magnetic and will adhere to any location on the cast frame.	

6.10 Using the ASR (EUROLOCK) safety groove

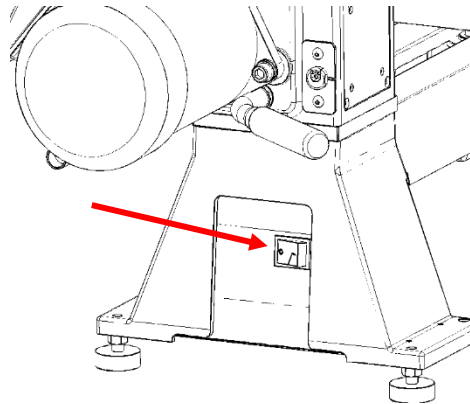
The lathe spindle is equipped with an ASR (EUROLOCK) safety groove. When used with a suitable accessory (e.g. chuck) and a suitable locking ring (both optionally available) a secure connection between spindle and accessory is achieved. The locking ring closes around the spindle groove and the accessory groove. This increases safety by preventing the accessory from coming off the spindle thread.	
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7 Operating the lathe

7.1 Operating elements

7.1.1 Main switch

The main switch, which connects the machine to the power supply, is located on the frequency inverter below the motor.



7.1.2 Mobile control box

The rear side of the mobile control box is magnetic, which allows it to be positioned anywhere on the bed or on flat metal surfaces.

WARNING

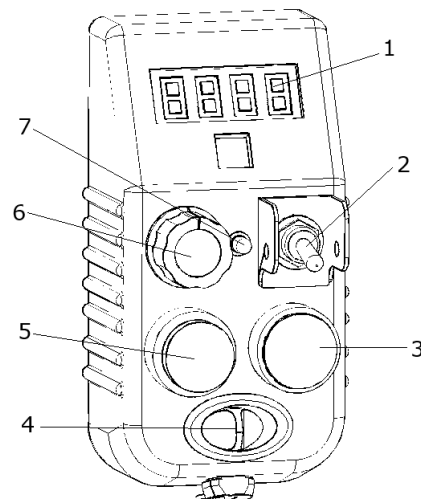


Risk of injury due to poorly positioned control box!

In the event of an emergency, the machine must be switched off quickly. If the control box is not positioned within easy reach, this increases the risk of injury.

- Always position the mobile control box within easy reach.

1. Digital speed display
2. Direction of rotation toggle switch
3. ON switch
4. Brake switch
5. OFF and EMERGENCY STOP switch
6. Speed control knob
7. Reverse rotation indicator lamp



7.2 Using the machine

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, study the subject.
- Before using the machine, attend a woodturning class.

WARNING



Danger of electric shock due to damaged cables!

If cables are damaged, there is an immediate danger of electric shock when starting up the machine.

- When placing the machine or components, take care not to damage any cables.
- Before starting up the machine, check the cables for damages.

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



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 adjusting tools that have not been removed!

Adjusting tools 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 keys from the machine.

WARNING



Risk of injury due to workpieces or workpiece parts coming off, or splinters!

If workpieces are incorrectly mounted, unsuitable (e.g. unbalanced or damaged) workpieces are used, or if the speed is too high, workpieces or parts of it may come off and cause serious or even fatal injuries.

- Observe the basic safety instructions and the labels on the machine.
- Wear personal protective equipment.
- Wear safety glasses or a face shield.
- Check the condition and suitability of the workpieces (e.g. cracks, solidity) before processing them.
- Avoid using heavy and unbalanced workpieces. Eliminate any imbalance in the workpiece as far as possible before mounting it.
- Clamp the workpiece securely (see chapter "Mounting the workpiece") and check the clamping regularly.
- Choose a suitable clamping device.
- When using the 4-prong drive centre, pre-punch the workpiece before mounting it.
- Make sure that there are no persons in the danger zone.
- Before switching on the machine, check the speed.
- Always start with a low speed and increase the speed slowly.
- If the workpiece starts vibrating, reduce the speed or switch off the machine and restart at a lower speed.
- When turning long and long, thin workpieces, use a support (steady rest).
- Only use chucks, faceplates and the like with a safety system preventing them from coming off (ask a dealer if necessary).
- Never loosen the tailstock quill or the tailstock while the workpiece is rotating.
- Before changing the direction of rotation, stop the machine and wait until the workpiece has come to a standstill.

WARNING



Risk of injury due to adhesives!

Adhesives can still be liquid in voids even after hours of drying and can leak during turning and cause injuries.

- Allow adhesives (including cyanoacrylate superglue) to cure sufficiently.

WARNING



Risk of injury due to rejected tools!

If the woodturning tool does not rest firmly on the tool rest when guided towards the workpiece, there is a risk of losing control of the tool. The rejected tool can cause injuries.

- Wear personal protective equipment.
- Select a suitable speed.
- Be careful when using woodturning tools.
- Place the woodturning tool on the tool rest before approaching the workpiece.
- Ensure that the woodturning tool always rests firmly on the tool rest during work.

WARNING



Risk of injury when braking the workpiece!

After the OFF switch has been pressed, the lathe will slowly reduce the speed to zero. In case of a power failure, the workpiece is no longer slowed down and the run-down time is extended. Attempting to stop the workpiece manually may result in injuries.

- After switching off the machine or in case of a power failure, allow the workpiece to come to a stop by itself.
- Never attempt to stop the workpiece manually.

WARNING



Risk of injury due to blunt or unsuitable woodturning tools!

Blunt or unsuitable woodturning tools increase the risk of injury.

- Use only suitable woodturning tools.
- Keep woodturning tools in good and sharp condition.
- Make sure the woodturning tool is correctly positioned.
- Avoid unnecessary stress on the tool.

NOTICE



Possible damages to the machine!

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

- Only process materials for which the machine is suitable.
- Only use the machine for its intended use.

7.2.1 Connecting the machine to the power supply

CAUTION

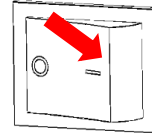


Risk of injury due to unsuitable electrical equipment!

Unsuitable electrical equipment at the installation site can lead to minor injuries and damages to the machine.

- Before starting up the machine, check the suitability of the power supply.
- Observe the information regarding the electrical equipment in these operating instructions.

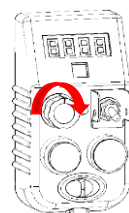
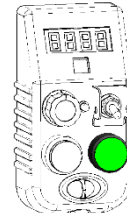
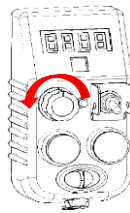
1. Connect the machine to a type F socket.
2. Press the main switch and set it to position I.



7.2.2 Starting the machine with Safe Start function

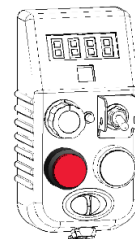
The machine is equipped with a Safe Start safety function that prevents the machine from starting accidentally or too quickly. A certain procedure must be followed to be able to press the green ON switch and start the machine.

1. Turn the speed control knob all the way to the left to the zero position.
2. Press the green ON switch. The switch will light up after activation.
3. Turn the speed control knob to the right to set the desired speed. The machine's spindle starts rotating.



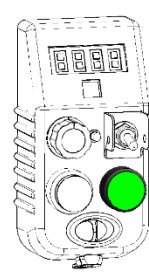
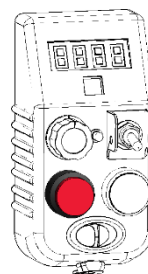
7.2.3 Stopping the machine

1. Press the red OFF switch (EMERGENCY STOP). All machine functions are stopped.



7.2.4 Deactivating the Safe Start function

1. To deactivate the Safe Start function, press and hold the red OFF switch for approx. 5 seconds.
2. The green ON switch starts flashing.
3. Once the green ON switch stops flashing, the Safe Start function is deactivated.
4. The function can be reactivated using the same procedure. The Safe Start function is also automatically reactivated when the main switch is pressed or when the machine is disconnected from the power supply.



7.2.5 Changing the direction of rotation of the spindle

WARNING

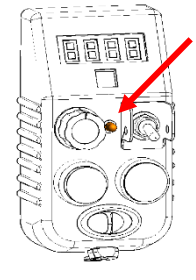
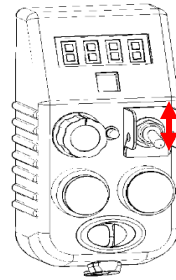


Risk of injury due to parts coming off!

When using the reverse rotation, accessories (chucks, faceplates) may come off the spindle and cause injuries.

- Only use chucks, faceplates and the like with a safety system preventing them from coming off (ask a dealer if necessary).
- Before changing the direction of rotation, stop the machine and wait until the workpiece has come to a standstill.

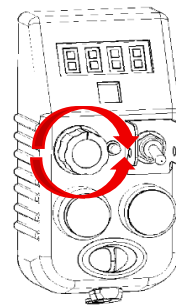
1. Stop the machine.
2. Wait until the workpiece has come to a standstill.
3. To change the direction of rotation of the spindle, actuate the toggle switch on the mobile control box.
4. When reverse rotation is activated, the orange indicator lamp will light up.



7.2.6 Setting the speed

The speed control knob on the mobile control box allows the speed to be continuously adjusted within the respective speed range. The speed is read off the digital speed display on the control box.

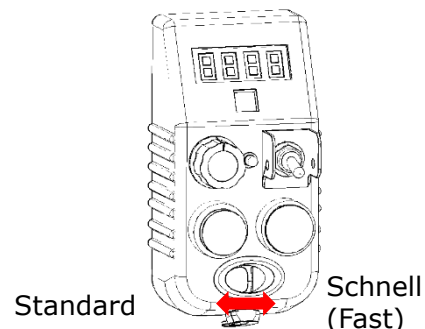
- Turn the speed control knob to the right to increase the speed.
- Turn the speed control knob to the left to decrease the speed.



7.2.7 Brake switch

The machine is equipped with a two-stage brake switch for setting the machine's braking time.

- Set the brake switch to the left position to select the standard braking time. The machine brings the spindle to a standstill in approx. 5 seconds. This braking time is particularly suitable for medium- to larger sized workpieces.
- Set the brake switch to the right position to select the fast braking time. The braking time reduces and the acceleration speeds up. This setting is particularly suitable for smaller workpieces (less than approx. 1 kg).



7.2.8 Mounting the workpiece

WARNING



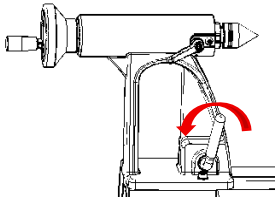
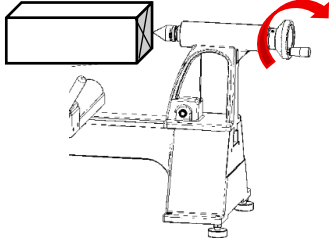
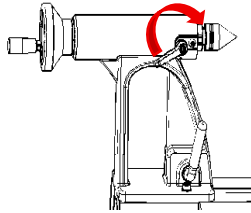
Risk of injury due to sharp tips!

Certain components of the machine, such as drive centre and live centre, have sharp tips. In case of contact, there is a risk of injury.

- Avoid touching the components' tips.
- Be particularly careful when handling near the components.

Mounting blanks for spindle turning

1. Carefully determine the centre point at both square ends of the blank (square): ▪ Use a pencil to draw diagonals between the corners. The intersection of the lines represents the centre point. ▪ Alternatively, use a centre finder.	
2. Place the blank on a solid surface. 3. Use a wooden, rubber or Teflon mallet to punch the 4-prong drive centre exactly into the centre of the head end of the wood. A deep impression of the 4-prong drive centre increases the secure hold of the workpiece when turning.	
4. Insert the 4-prong drive centre into the spindle. 5. Make sure that the 4-prong drive centre is firmly seated.	
6. Press the blank with the impression onto the 4-prong drive centre.	
7. Slide the tailstock towards the other end of the blank. Leave some space between live centre and blank.	

8. Tighten the tailstock clamping lever.	
9. Turn the tailstock handwheel to press the live centre into the centre point of the blank end.	
10. Lock the quill with the lock handle. 11. Regularly check that the tailstock is securely locked on the bed. This assures low-vibration turning and is the best prerequisite for exact drilling with the tailstock.	

Mounting blanks for faceplate turning

Mounting on a faceplate

WARNING



Risk of injury when using a faceplate!

Failure to observe the following basic rules may result in injury.

- Do not use faceplates with recognizable damages.
- Do not use unbalanced, cracked or crack-prone wood.
- Only mount blanks that are as homogeneous and round as possible.
- Create a flat supporting surface before mounting the blank.
- Shorter thick screws are better than long thin ones (shear force).
- Select the speed corresponding to the workpiece conditions.
- Never stand in a critical area while working (critical means directly in front of the workpiece).
- Avoid impact stress.
- Avoid using risky and untrained working techniques.
- Do not use woodturning tools that can get caught/stuck.
- Only loosen the faceplate with the provided tool.

NOTICE

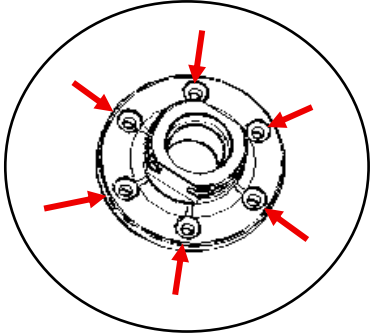


Observe the rule of thirds!

The faceplate should not be smaller than a third of the workpiece diameter. The machine is delivered with a faceplate with a diameter of 95 mm.

- For workpieces with a diameter of more than 29 cm, use bigger faceplates.

Especially for larger workpieces, the faceplate is the safest method for initial mounting.

1. Use a bandsaw to cut the blank to a shape as round as possible. 2. Plane hollow or bent surfaces to achieve a flat surface.	
3. Screw the faceplate to the blank with 6 wood screws.	

Mounting with a chuck

Commercially available chucks allow expanding and contracting gripping of the workpiece with a variety of jaws, or fixing the workpiece with a woodworm screw. The operating instructions of the respective product will describe how to proceed when mounting.

7.2.9 Adjusting the tool rest

The tool rest serves as a support for the woodturning tools. These are guided to the workpiece by hand. In order to absorb the cutting forces that occur, the woodturning tools must constantly rest firmly on the tool rest. In this way, the tool rest reduces the risk of injury.

NOTICE



Possible damages to the machine!

If the distance between tool rest and workpiece is insufficient, the workpiece may hit the tool rest and be jammed, causing possible damages to the machine.

- Before switching on the lathe, turn the workpiece by hand to ensure that it is not in contact with the tool rest.

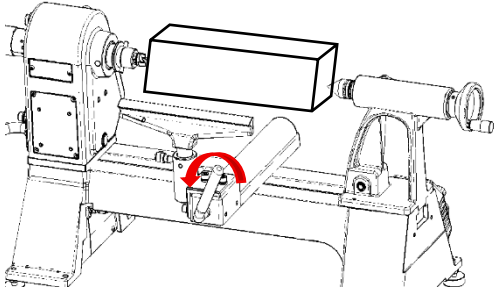
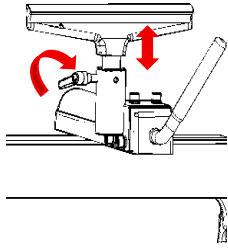
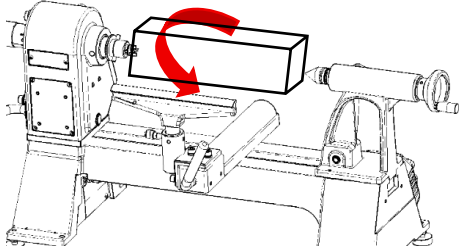
WARNING



Risk of hand injuries!

If fingers get pinched between workpiece and tool rest, there is a risk of injury.

- Make sure that fingers do not get pinched between workpiece and tool rest.
- If the tool rest is not required (e.g. in case of sanding or polishing work), remove the tool rest from the workpiece.

1. Place the banjo in front of the workpiece. 2. Tighten the clamping lever.	
3. Loosen the tool rest lock handle. 4. Position the tool rest close to the workpiece. Make sure that the workpiece can still rotate freely. The distance between workpiece and tool rest should be approx. 5-10 mm. 5. Tighten the lock handle.	
6. Before switching on the lathe, turn the workpiece by hand to ensure that it is not in contact with the tool rest.	
7. When turning, stop the machine at intervals and readjust the tool rest.	

7.2.10 Selecting the speed range (belt stage)

The belt stage to be selected, which determines the speed range of the machine, depends primarily on the diameter of the workpiece (leverage of the cutting pressure) and the weight or inertia of the workpiece.

Due to various factors, a general recommendation or a table for the appropriate belt stage cannot be given.

An example: A vase may be heavy despite its small diameter and therefore have a higher inertia, which makes the use of the lowest speed range advisable. A nearly finished bowl with a large diameter but low weight, on the other hand, may justify the use of a higher speed range.

NOTICE



Possible damages to the machine!

A speed range that is too high can lead to increased wear on belt and bearings, overheating of motor and electronics, temporary loss of power or total failure of the machine.

- Before processing a workpiece, check the workpiece diameter. The larger the diameter, the greater the leverage and the stronger the cutting forces. If necessary, select a lower speed range.
- Before processing a workpiece, consider the weight or inertia of the workpiece. For heavy or inert workpieces, select a lower speed range to protect the drive and motor.
- In case of doubts, select a lower speed range and increase the speed using the speed control knob. The higher motor speed ensures better cooling of the motor and improves the motor torque.
- Monitor the load on the machine (motor temperature and belt tension) during operation.
- In case of questions, contact a specialist or the dealer.

See chapter "Settings on the machine - Changing the speed range" on how to proceed to change the speed range.

7.2.11 Selecting the speed

The speed to be selected depends primarily on the size of the workpiece, but factors such as imbalance, weight, hardness and density of the workpiece also have an influence. The right speed is crucial for the result and prevents vibrations and accidents.

WARNING



Risk of injury due to excessive speed!

If the speed is too high, the machine may vibrate and the workpiece may come off the spindle.

- Always start with a low speed and increase the speed slowly.
- If the workpiece starts vibrating, reduce the speed or switch off the machine and restart at a lower speed.
- In left-handed mode, only use chucks, faceplates and the like with a safety system preventing them from coming off (ask a dealer if necessary).
- Before changing the direction of rotation, stop the machine and wait until the workpiece has come to a standstill.

WARNING



Risk of injury due to insufficient speed!

If the speed is too low, the wood may hammer against the tool and tear out. This creates considerable forces on the tool and workpiece, which can result in injuries.

- Select a suitable speed.

Speed chart

NOTICE



Notes on the speed chart

The following information refers to turning an already round workpiece. The values given are only guide values that are not based on calculations or simulations and are intended to comply with accident prevention regulations.

- Depending on the condition of the workpiece, select a lower speed if necessary.
- For roughing a blank, select a correspondingly lower speed.
- If the workpiece starts vibrating, reduce the speed or switch off the machine and restart at a lower speed.
- Reduce any workpiece imbalance (especially on workpieces with a diameter of more than 30 cm) as far as possible before turning.

Workpiece diameter	Recommended speed
< 15 cm	1000 rpm
15 – 20 cm	800 rpm
20 – 25 cm	650 rpm
25 – 30 cm	500 rpm
30 – 35 cm	450 rpm

7.2.12 Operating the machine

1. Observe the safety instructions and notes in the operating instructions.
2. Plug in the machine.
3. Mount the workpiece securely (see chapter "Mounting the workpiece").
4. Assume the working position: Feet hip-width apart, parallel to the lathe.

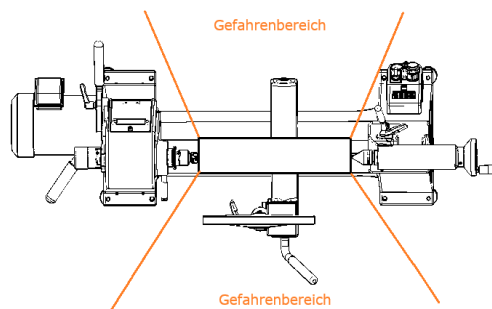
NOTICE



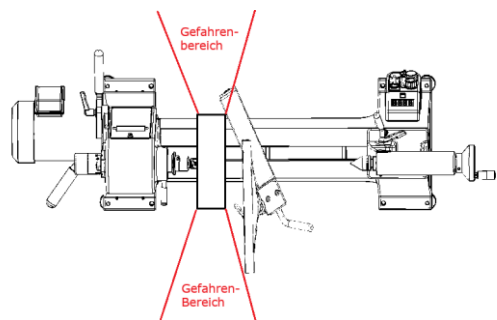
Notes on the danger zone!

- Observe the following danger zones when spindle and faceplate turning.

Spindle turning



Cross grain turning



5. Turn the speed control knob counterclockwise to zero position.
6. Press the ON switch and increase the speed.
7. Place the woodturning tool on the tool rest.

8. Guide the woodturning tool towards the workpiece and start processing the workpiece.

WARNING



Risk of injury due to rejected tools!

If the woodturning tool does not rest firmly on the tool rest when guided towards the workpiece, there is a risk of losing control of the tool. The rejected tool can cause injuries.

- Wear personal protective equipment.
- Select a suitable speed.
- Be careful when using woodturning tools.
- Place the woodturning tool on the tool rest before approaching the workpiece.
- Ensure that the woodturning tool always rests firmly on the tool rest during work.

WARNING



Risk of injury due to blunt or unsuitable woodturning tools!

Blunt or unsuitable woodturning tools increase the risk of injury.

- Use only suitable woodturning tools.
- Keep woodturning tools in good and sharp condition.
- Make sure the woodturning tool is correctly positioned.
- Avoid unnecessary stress on the tool.

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



Risk of injury due to sharp tips!

Certain components of the machine, such as drive centre and live centre, have sharp tips. In case of contact, there is a risk of injury.

- Avoid touching the components' tips.
- Be particularly careful when handling near the components.
- Remove sharp components from the machine if necessary.

Interval	Note	Location	Measure
After each use		Machine	Clean the machine of chips, dust and dirt or vacuum up chips.
		Machine (especially in case of high humidity / green wood)	Apply wax, silicone spray or rust protection on all machine parts prone to corrosion (bed, spindle thread, quill, screw threads).
		Surroundings of the machine	Clean the surroundings of the machine.
After 8 operating hours and afterwards regularly		Screw connections	Check all screw connections for tightness and tighten if necessary.
Regularly		Cables	Check cables for defects, have damaged cables replaced.
	Especially when subjected to high use due to drilling	Tailstock quill thread	Grease the thread (see instructions below).
After green wood turning		Machine	Clean all bare areas (including the underside of the banjo) immediately after use and apply rust protection.
Before inserting an insert tool (drive centre, live centre)		Spindle thread	Clean with a brush and check for damages.
		Taper (headstock and tailstock)	Clean with a bottle brush or a taper cleaner and check for damages.

NOTICE



Possible damages to the machine!

Continuing to use damaged insert tools may damage the taper.

- Repair or replace damaged insert tools.

Interval	Note	Location	Measure
Whenever necessary		Taper (headstock and tailstock)	In case of damages (visible on the insert tool), ream out the taper with a reamer.
		Quill housing	Wipe out, blow out with compressed air and apply maintenance oil.

Interval	Note	Location	Measure
Whenever necessary		Quill	Clean the quill and check for damages, carefully remove any dents in the quill guide with a smoothing file.
		Threaded spindle tailstock	Clean and grease if necessary.
		Banjo	Blow off dirt with compressed air (also from the seat of the tool rest).
		Tool rest	Remove indentations in the tool rest with a file, rework with sanding fleece and clean the tool rest.
	Unmount the motor cover	motor	Check that the fan is firmly in place, blow out the fan and the ventilation slots, apply maintenance oil to the motor seal.
	Release the tension on the motor	Pulleys and belt	Check the grooves on pulleys and belt for dust and dirt and clean them with a nylon brush if necessary. Check the belt for damages. Check that the pulleys are firmly in place.
		Belt housing	Blow out with compressed air.

Lubricants and cleaning agents to be used

Use standard lubricants and cleaning agents.

NOTICE

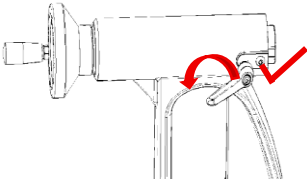
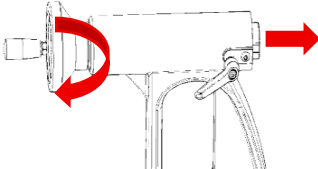
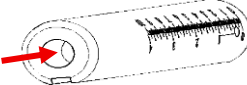
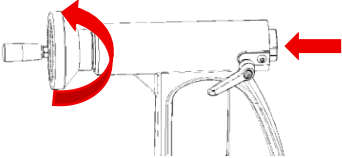
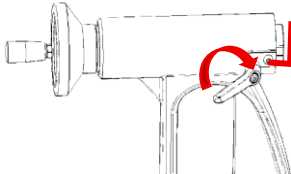


Risk of fire due to improperly stored cleaning rags!

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

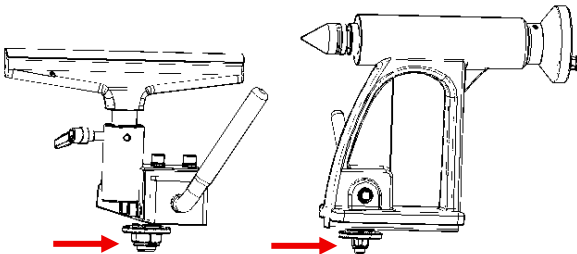
- Store oil-soaked cleaning rags separately in suitable closed metal containers.
- Dispose of oil-soaked cleaning rags and polishing wool separately and in accordance with applicable regulations.

8.1.1 Greasing the quill thread in the tailstock

1. Loosen the tailstock lock handle. 2. Loosen the socket head screw next to the lock handle.	
3. Use the handwheel to eject the quill from the tailstock.	
4. Clean and grease the quill thread.	
5. Position the quill on the thread. 6. Use the handwheel to retract the quill.	
7. Loosely screw in the socket head screw (it should not clamp the quill, only secure it against rotation). 8. Turn the lock handle into place (closer to the handwheel).	

8.1.2 Tightening the tailstock or banjo

If the tailstock or the banjo cannot be firmly fixed on the bed, it may be necessary to tighten the locknut on the underside.

1. Pull the tailstock or banjo to the end of the bed. 2. Slightly tighten the locknut on the underside.	
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8.2 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 main switch 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.

8.3 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. 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).

- Switch off the machine and disconnect it from the power supply.
- Before starting up the machine, remove jams.

WARNING



Risk of injury due to sharp tips!

Certain components of the machine, such as drive centre and live centre, have sharp tips. In case of contact, there is a risk of injury.

- Avoid touching the components' tips.
- Be particularly careful when handling near the components.
- Remove sharp components from the machine if necessary.

WARNING



Risk of injury due to defective electrical components!

If electrical components are defective, the machine may start unexpectedly or fail to switch off. There is a risk of injury.

- If necessary, disconnect the machine from the power supply.

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 switch on	No current	Check if the power plug is connected
	No mains voltage	Check fuses
	Spindle or indexing device locked	Release locks
	Motor, switch, cable defective	Contact a qualified electrician
Machine switches off	Frequency inverter switched off	Wait approx. 10 minutes and switch on again Press the red OFF switch
	Workpiece out-of-balance	Balance out workpiece, reduce speed, change the speed range
	Machine overload	Reduce load
Machine vibrates	Speed too high	Reduce speed
	Cutting pressure too high	Reduce cutting depth or feed
	Tool rest, tailstock or headstock not firmly locked	Check and lock, tighten locknut on the underside if necessary
	Workpiece insecurely mounted	Check clamping, reduce clamping length or diameter, support tailstock end, use steady rest
	Workpiece clamped off-centre	Clamp workpiece centrally
	Machine positioned on uneven installation surface	Level machine
	Dirt on pulleys or belt	Clean grooves
	Belt pulleys are loose	Tighten belt pulleys
	Main bearing has play	Replace bearings
	Bearing defective	Check and replace if necessary
	Motor bearing defective	Check and replace motor if necessary or have the bearing replaced by a specialist

Fault	Possible cause	Possible remedy
Machine chatters	Cutting pressure too high, feed too fast, workpiece surface too rough	Reduce pressure or feed
	Blunt woodturning tool	Sharpen or replace woodturning tool
	Woodturning tool springs	Move tool rest closer to workpiece
	Workpiece too large	Select lower speed range
	Tips are not aligned	Readjust
Weak motor performance	Loose belt	Retighten belt
Machine squeaks	Dry motor sealing rubber	Apply maintenance oil
Quill hard to move	Threaded spindle in tailstock dry	Apply universal grease to the threaded spindle in the tailstock
Banjo or tailstock does not slide well over the bed	Dirt, rust or resin on the underside of the banjo	Apply maintenance oil or resin remover on the sliding surface, clean with sanding fleece, wipe off, blow off dirt from the banjo
	Dirt, rust or resin on bed	Apply maintenance oil or resin remover on the bed (also underneath the tailstock and banjo) and clean with sanding fleece, wipe off the bed
Tailstock or banjo cannot be securely fixed on the bed	Loose locknut on the underside	Slightly tighten the locknut on the underside of the component (see chapter "Care and maintenance")

9.2 Restoring normal operation

The machine is equipped with a zero-voltage switch which shuts down the machine in the event of a power failure and prevents a restart when power is restored. Furthermore, the drive may be switched off by the frequency inverter in the event of an overload.

In the event of faults, switch off the machine, disconnect the machine from the power supply, eliminate the cause, plug the machine back in and switch it on. If the system is overheated, the restoring operation may take longer.

When the machine is switched on again, the Safe Start function on the control unit is automatically activated.

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 Optional accessories

WARNING



Risk of injury due to the use of unsuitable accessories!

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

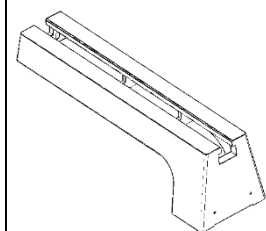
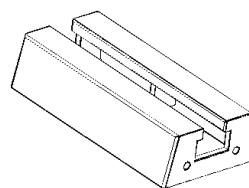
- Only use original accessories. Ask a specialist dealer for information.

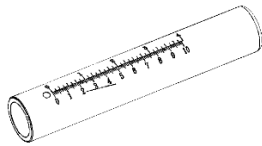
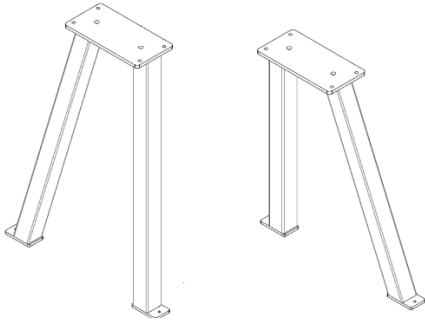
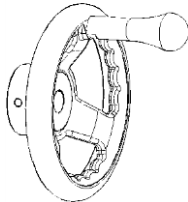
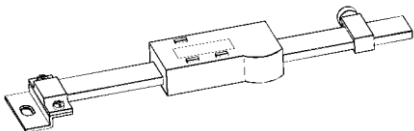
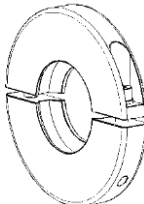
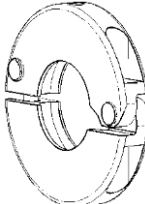
The following accessories are optionally available for the machine:

Bed extension

A bed extension extends the lathe's distance between centres. Two different versions are available for the lathe:

- Bed extension 280 mm [Art. DDBV280]
- Bed extension 600 mm [Art. DDBV600]



Tailstock quill ER25 The tailstock quill ER25 is inserted into the tailstock instead of the standard quill and takes up ER25 collets, in which drill bits can be clamped directly. This makes the use of an additional drill chuck unnecessary and prevents a loss of distance between centres. ▪ Tailstock quill ER25 MIDI [Art. DDMIDI-PINER25]		
Machine stand Solid stand that can be filled with quartz sand for additional stability. ▪ Machine stand PRO [Art. DDMIDI-105]		
Handwheel big Solid handwheel for better power transmission when drilling. ▪ Handwheel BIG 125 mm [Art. DDMIDI-405]		
Tailstock gauge Digital gauge with depth stop for high-precision drilling. ▪ Tailstock gauge MIDI [Art. DDMIDI-301]		
ASR (EURO) locking ring Mounting the locking ring on the spindle and on the accessory (safety groove required) prevents the accessory from coming off the spindle during operation or braking. ▪ ASR (EURO) locking ring [Art. DDKS22-FPS] ▪ ASR (EURO) locking ring hinged [Art. DDKS22-FPSK]		

12 Annex

12.1 EC Declaration of conformity



EC – Declaration of Conformity

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

No. of Declaration of Conformity:	Neu-DM-252-115-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:	Woodturning Lathe
Product designation:	MIDI 3
Technical model name:	1514EV
Technical series name:	KC-INV

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
Electromagnetic Compatibility (EMC) Directive 2014/30/EU

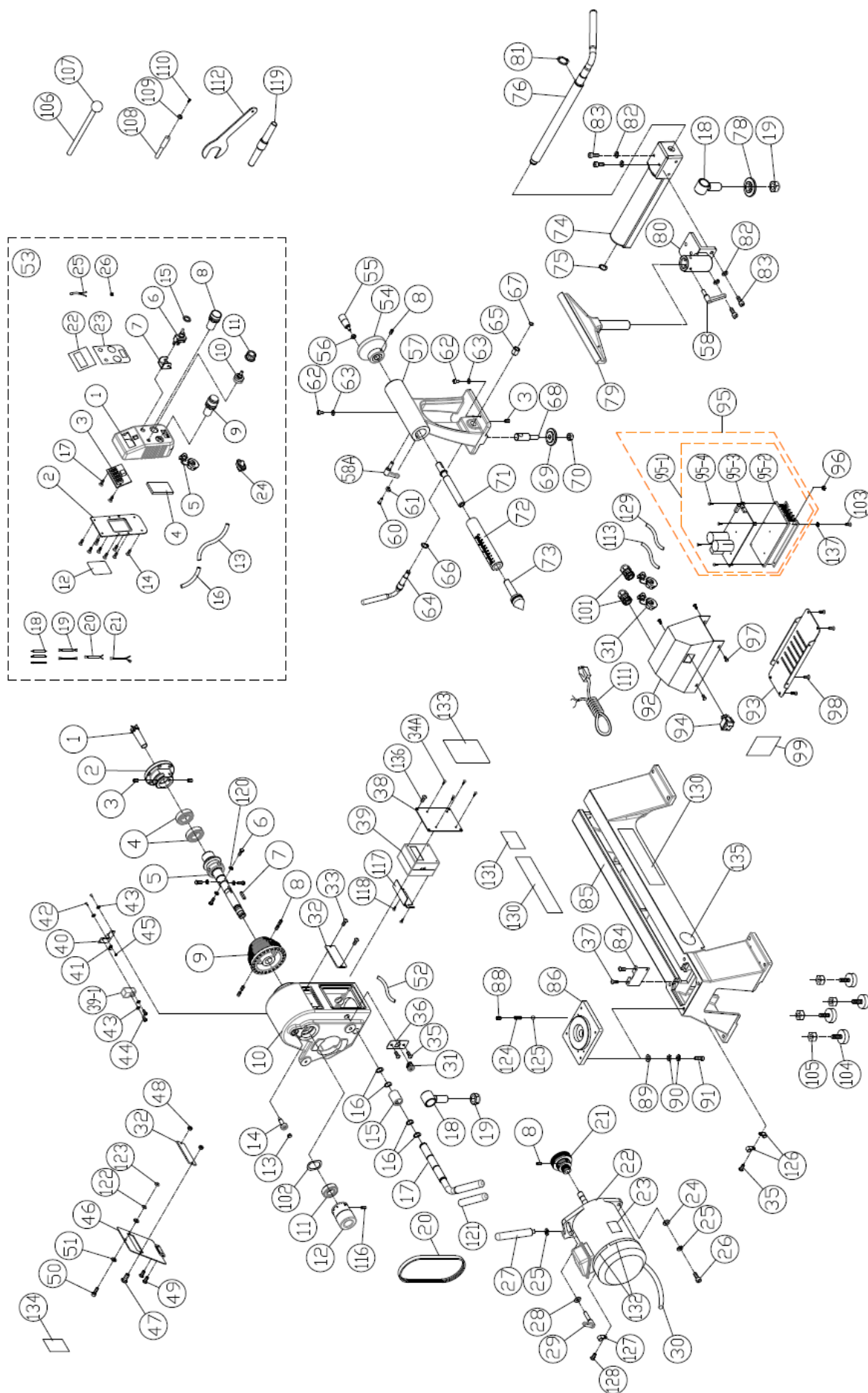
The following harmonised standards and technical specifications have been applied:

EN ISO 12100:2010	Safety of machinery – General principles for design – Risk assessment and risk reduction
EN 60204-1:2018	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
EN ISO 13849-1:2015	Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design
EN 61000-6-2:2019	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments
EN 61000-6-4:2019	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments

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

Kuchl, 11 June 2025
Ludwig Neureiter (owner)

12.2 Exploded view



12.3 Parts list

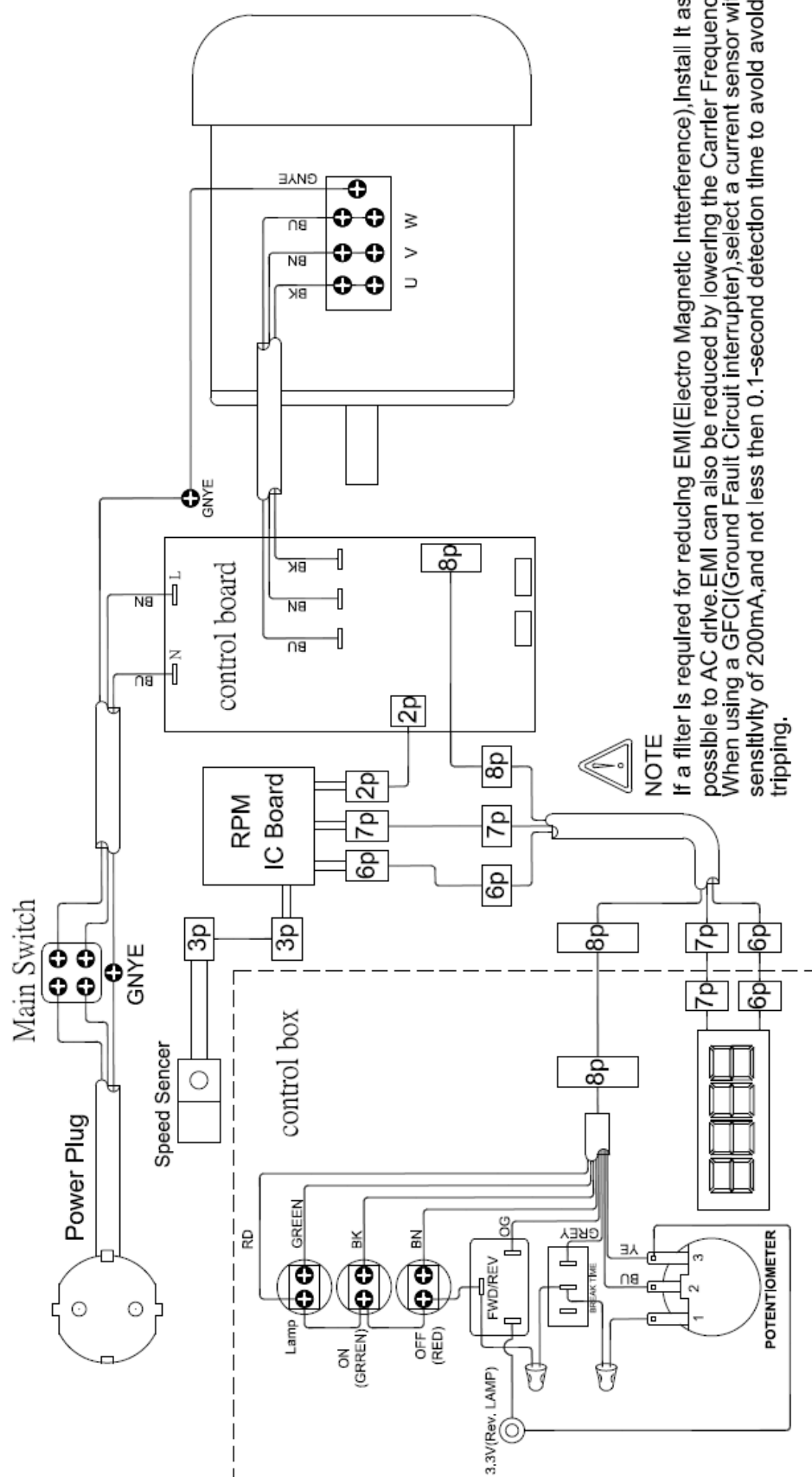
Ref.	Part no.	Designation	Spec.
001	DD-1514EV-001	1x 4-prong drive centre	MT2
002	DD-1514EV-002	1x faceplate	M33 - ø 95
003	DD-1514EV-003	3x set screw	M6x10
004	DD-1514EV-004	2x bearing	6005LLB
005	DD-1514EV-005	1x spindle	M33x3.5
006	DD-1514EV-006	4x hex head screw	M4x8
007	DD-1514EV-007	1x key	5x5x25
008	DD-1514EV-008	7x set screw	1/4"-20UNC x3/8"
009	DD-1514EV-009	1x spindle pulley	
010	DD-1514EV-010	1x headstock	
011	DD-1514EV-011	1x bearing	6004LLB
012	DD-1514EV-012	1x handwheel	
013	DD-1514EV-013	1x magnet	
014	DD-1514EV-014	1x index locking pin	
015	DD-1514EV-015	1x bushing	
016	DD-1514EV-016	4x circlip	S-19
017	DD-1514EV-017	1x headstock clamping lever	
018	DD-1514EV-018	2x clamping bolt	
019	DD-1514EV-019	2x nylon nut	3/4"x10UNC
020	DD-1514EV-020	1x belt	160J-6V
021	DD-1514EV-021	1x motor belt pulley	
022	DD-1514EV-022	1x motor	
023	DD-1514EV-023	1x motor nameplate	
024	DD-1514EV-024	1x washer	3/8"
025	DD-1514EV-025	2x spring washer	3/8"
026	DD-1514EV-026	1x cap screw	3/8"x1-1/4"
027	DD-1514EV-027	1x motor tensioning lever	
028	DD-1514EV-028	1x washer	5/16"
029	DD-1514EV-029	1x lock handle	5/16"x30
030	DD-1514EV-030	1x motor cable	
031	DD-1514EV-031	3x strain relief	SR-6P3
032	DD-1514EV-032	2x acrylic plate	
033	DD-1514EV-033	2x button head screw	M4x10
034A	DD-1514EV-034A	4x tap screw	M3x10
035	DD-1514EV-035	3x button head screw	
036	DD-1514EV-036	1x cover	
037	DD-1514EV-037	2x button head screw	#10-24UNC x1/4"
038	DD-1514EV-038	1x plate	
039	DD-1514EV-039	1x digital display	
039-1	DD-1514EV-039-1	1x proximity switch	
040	DD-1514EV-040	1x sensor bracket	
041	DD-1514EV-041	1x cable clamp	ACC-1.5
042	DD-1514EV-042	2x round-head screw	M3x30
043	DD-1514EV-043	4x washer	M3
044	DD-1514EV-044	2x button head screw	M3x20
045	DD-1514EV-045	1x nut	M3
046	DD-1514EV-046	1x headstock protective cover	
047	DD-1514EV-047	2x round-head screw	M4
048	DD-1514EV-048	2x nylon nut	M4
049	DD-1514EV-049	2x button head screw	M3x5
050	DD-1514EV-050	1x cap screw	
051	DD-1514EV-051	2x washer	
052	DD-1514EV-052	1x signal cable	
053	DD-1514EV-053	1x mobile control box	
053-1	DD-1514EV-053-1	1x upper part of housing	
053-2	DD-1514EV-053-2	1x lower part of housing	
053-3	DD-1514EV-053-3	1x speed display	
053-4	DD-1514EV-053-4	1x magnet	
053-5	DD-1514EV-053-5	1x cable gland	SR-6P3
053-6	DD-1514EV-053-6	1x toggle switch direction of rotation	
053-7	DD-1514EV-053-7	1x switch guard	
053-8	DD-1514EV-053-8	1x ON switch	
053-9	DD-1514EV-053-9	1x OFF switch	
053-10	DD-1514EV-053-10	1x speed control	
053-11	DD-1514EV-053-11	1x speed control knob	
053-12	DD-1514EV-053-12	1x foam	
053-13	DD-1514EV-053-13	1x control box cable	
053-14	DD-1514EV-053-14	8x tap screw	M3x14
053-15	DD-1514EV-053-15	1x safety washer	M12
053-16	DD-1514EV-053-16	1x cable	
053-17	DD-1514EV-053-17	2x tap screw	M3x6
053-18	DD-1514EV-053-18	3x cable 1	
053-19	DD-1514EV-053-19	2x cable 2	
053-20	DD-1514EV-053-20	1x cable 3	
053-21	DD-1514EV-053-21	1x cable 4	
053-22	DD-1514EV-053-22	1x control box label	
053-23	DD-1514EV-053-23	1x control box label	
053-24	DD-1514EV-053-24	1x brake switch	
053-25	DD-1514EV-053-25	1x LED lamp	
053-26	DD-1514EV-053-26	1x LED lamp holder	
054	DD-1514EV-054	1x handwheel	

Ref.	Part no.	Designation	Spec.
055	DD-1514EV-055	1x handle	
056	DD-1514EV-056	1x nut	1/4"
057	DD-1514EV-057	1x tailstock	
058	DD-1514EV-058	1x lock handle	5/16"x20mm
058A	DD-1514EV-058A	1x lock handle	5/16"x20mm
060	DD-1514EV-060	1x button head screw	#10-32UNF x5/8"
061	DD-1514EV-061	1x key	
062	DD-1514EV-062	2x cap screw	M6x10
063	DD-1514EV-063	2x washer	M6-D13 x1.5t
064	DD-1514EV-064	1x tailstock clamping lever	
065	DD-1514EV-065	1x bearing bush	
066	DD-1514EV-066	1x circlip	S-16
067	DD-1514EV-067	1x circlip	S-10
068	DD-1514EV-068	1x clamping bolt	
069	DD-1514EV-069	1x clamping plate	
070	DD-1514EV-070	1x nylon nut	M10x1.5
071	DD-1514EV-071	1x threaded spindle tailstock	
072	DD-1514EV-072	1x quill	
073	DD-1514EV-073	1x live centre	MT2
074	DD-1514EV-074	1x banjo	
075	DD-1514EV-075	1x circlip	S-18
076	DD-1514EV-076	1x banjo clamping lever	
078	DD-1514EV-078	1x clamping plate	
079	DD-1514EV-079	1x tool rest	10"
080	DD-1514EV-080	1x angle bracket	
081	DD-1514EV-081	1x circlip	S-25
082	DD-1514EV-082	4x spring washer	M8
083	DD-1514EV-083	4x cap screw	M8x16

Ref.	Part no.	Designation	Spec.
084	DD-1514EV-084	1x cover	
085	DD-1514EV-085	1x bed	
086	DD-1514EV-086	1x headstock swivel plate	
088	DD-1514EV-088	1x set screw	
089	DD-1514EV-089	4x washer	M6
090	DD-1514EV-090	8x spring washer	M6
091	DD-1514EV-091	4x cap screw	M6x30
092	DD-1514EV-092	1x upper part of housing	
093	DD-1514EV-093	1x lower part of housing	
094	DD-1514EV-094	1x switch	
095	DD-1514EV-095	1x frequency inverter (assembly)	
095-1	DD-1514EV-095-1	Frequency inverter	
095-2	DD-1514EV-095-2	heat sink	
095-3	DD-1514EV-095-3	PC board	
095-4	DD-1514EV-095-4	Round-head screw	
096	DD-1514EV-096	2x nut	M5
097	DD-1514EV-097	4x panhead screw	M4x10
098	DD-1514EV-098	4x flat head screw	M5x8
099	DD-1514EV-099	1x frequency inverter label	
101	DD-1514EV-101	2x strain relief	M16
102	DD-1514EV-102	1x wave washer	BWM6203
103	DD-1514EV-103	2x flat head screw	M5x15
104	DD-1514EV-104	4x machine foot	3/8"
105	DD-1514EV-105	4x nut	3/8"
106	DD-1514EV-106	1x knockout bar	
107	DD-1514EV-107	1x knockout bar knob	
108	DD-1514EV-108	1x spindle locking pin	
109	DD-1514EV-109	1x magnet	

Ref.	Part no.	Designation	Spec.
110	DD-1514EV-110	1x flat head screw	M3x8
111	DD-1514EV-111	1x power cord	
112	DD-1514EV-112	1x faceplate key	
113	DD-1514EV-113	1x cable short	
116	DD-1514EV-116	3x set screw	M6x10
117	DD-1514EV-117	1x partition plate	
118	DD-1514EV-118	2x tap screw	1/4"-20UNC x1/2"
119	DD-1514EV-119	1x double taper	
120	DD-1514EV-120	4x spring washer	M4
121	DD-1514EV-121	1x protector	
122	DD-1514EV-122	1x O-ring	
123	DD-1514EV-123	1x tooth washer	CSTW-4
124	DD-1514EV-124	1x spring	
125	DD-1514EV-125	1x steel ball	
126	DD-1514EV-126	2x cable clamp	ACC-3
127	DD-1514EV-127	1x cable clamp	ACC-4
128	DD-1514EV-128	1x round cross-head screw	3/16"-24T-3/8"
129	DD-1514EV-129	1x cable	
130	DD-1514EV-130	2x logo label	
131	DD-1514EV-131	1x nameplate	
132	DD-1514EV-132	2x rubber	
133	DD-1514EV-133	1x label	
134	DD-1514EV-134	1x label	
135	DD-1514EV-135	1x label	
136	DD-1514EV-136	4x flat head screw	M4x8
137	DD-1514EV-137	2x external tooth washer	M5

12.4 Wiring diagram



NOTE

If a filter is required for reducing EMI(Electro Magnetic Interference),Install it as close as possible to AC drive.EMI can also be reduced by lowering the Carrier Frequency. When using a GFCI(Ground Fault Circuit interrupter),select a current sensor with sensitivity of 200mA, and not less than 0.1-second detection time to avoid avoid nuisance tripping.

