Operation Manual

Woodturning Lathe

61591, 62646

Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!
Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation
If you have suggestions for improvement or have found any irregularities, please contact us.

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Even though, the WilTec Wildanger Technik GmbH has undergone biggest possible efforts to ensure that the operating manual is complete, faultless, and up to date, mistakes cannot be entirely avoided.
If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

Send an e-mail to:

service@wiltec.info

or use our contact form:

https://www.wiltec.de/contacts/

The most recent version of this manual in various languages can be found in our online shop via:

https://www.wiltec.de/docsearch

Our postal address is:

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52249 Eschweiler
Germany

To return orders for exchange, repair, or other purposes, please use the following address. Attention! To allow for a smooth execution of your complaint or return, it is important to contact our customer service team before returning the goods.

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Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**
Keep these operation instructions safe.

Danger signs

Danger! To reduce the risk of injury, read the operating instructions before use!

Attention! Wear hearing protection. Noise exposure can cause hearing loss.

Attention! Wear a dust mask. When working with wood and other materials, harmful dust can be generated. Material containing asbestos must not be processed.

Attention! Wear protective glasses. Sparks generated during the working process or splinters, chips and dust emerging from the unit can lead to loss of visibility.

Danger! Risk of injury! Do not reach into rotating workpieces.

Direction of rotation!

Danger!
When using electrical equipment, some safety precautions must be observed to prevent injury and damage to property. Please read these operating/safety instructions carefully. Keep them in a safe place for future reference.

If you should lend the device to another person, also hand over these operating/safety instructions. We are not liable for accidents or damage caused by non-compliance with these instructions and the safety instructions.

Safety instructions

Danger! Read all safety instructions and notes. Failure to follow the safety precautions and instructions may result in electric shock, fire, and/or serious injury. **Keep all safety instructions and notes for future reference.**

Warning: When power tools are used, basic safety precautions must be followed to eliminate the risk of fire, electric shock, and personal injury, including the following:

- Always wear safety glasses and head protection, e.g., a construction helmet.
- Wear tight-fitting work clothing that cannot get caught by moving parts.
- Connect the machine firmly to a surface.

Equipment description and scope of delivery

Please check the completeness of the item according to the described content of delivery. In case of missing parts, please contact our customer service or the point of sale where you purchased the device within 5 working days of the purchase of the item at the latest, presenting a valid proof of purchase:

- Open the packaging and carefully remove the device from the packaging.
- Remove the packing material as well as packing and transport locks (if present).
- Check that the scope of delivery is complete.
- Check the device and the equipment for transport damage.
- If possible, keep the packaging until the warranty expires.

Danger! Device and packaging material are not children's toys! Children must not play with plastic bags, foils, or small parts! There is a serious danger of ingestion and suffocation!

Scope of delivery

- Woodturning lathe
- Front end driver ring
- Tool support
- Counter bracket
- Handwheel
- Clamping lever (2×)
- Plate (2×)
- Locking grip
- Wrench for pinion shaft
- Face plate
- Crank handle
- Hexagon key
- Wrench for front end driver ring
- Small screw (3×)
- Small washer (6×)
- Spring washer (3×)
- Nut small (3×)
- Large screw (2×)
- Big washer (2×)
- Wing nut (2×)
- Washer for crank handle
- Original operating instructions
- Safety information

Intended use

- The woodturning lathe is only used to work on wood using a suitable turning iron.
- The machine may only be used for its intended purpose. Any further use beyond this is not intended. The user/operator is liable for any damage or injury of any kind resulting from this, not the manufacturer.
- Please note that our devices are not designed for commercial, technical or industrial use. We do not supply any warranty if the device is used in commercial, craft or industrial enterprises as well as in equivalent activities.

Technical data

Nominal voltage (V)	230
Nominal frequency (Hz)	50
Power (W)	400 (S2 30 min)
Idling speed (motor) (r/min)	1400
Spindle speed (r/min)	890 / 1260 / 1760 / 2600
Max. cutting length (mm)	1000

Max. cutting diameter (mm)	350
Max. turning diameter (mm)	280
Protection type	IP20
Weight (kg)	22
Accessories	62646: 12 wood carving chisels and gouges

Load factor

The load factor “S2 30 min” (short-time operation) indicates this motor with a rated power of 400 W may only be continuously used for the time specified on the data plate (30 min). Otherwise, it will heat up excessively. During the pause, the motor will cool down again to its initial temperature.

Noise and vibrations

Danger! The noise and vibration values were determined in accordance with EN 61029.

Sound pressure level L_{pA} (dB (A))	61
Uncertainty K_{pA} (dB)	3
Sound power lever L_{WA} (dB (A))	74
Uncertainty K_{WA} (dB)	3

The stated values are emission values and therefore do not must represent safe workplace values at the same time. Although there is a correlation between emission and emission levels, it cannot be reliably determined whether additional precautions are necessary or not. Factors that can influence the current emission level at the workplace include the duration of the working process, the nature of the workspace, other sources of noise, etc., e.g., the number of machines and other near-by processes. Reliable workplace values can also vary from country to country. However, this information should enable the user to make a better evaluation of hazard and risk.

Wear hearing protection. Noise exposure can cause hearing loss.

Keep noise and vibration to a minimum!

- Only use faultless equipment.
- Regularly service and clean the unit.
- Adapt your mode of operation to the device.
- Do not overload the device.
- Have the device checked if necessary.
- Switch the device off when it is not in use.

Residual risks

Even if this power tool is operated correctly, there are always remaining risks. The following hazards may occur in connection with the construction and design of this power tool:

- Lung damage if you do not wear a suitable dust mask.
- Hearing damage if you do not wear a suitable hearing protection.
- Damage to health resulting from hand-arm vibrations if the device is used for a long period of time or is not properly operated and maintained.

Before starting the device

Before connecting the device, make sure that the data on the nameplate corresponds to the network data. **Warning!** Always disconnect the mains plug before making any adjustments to the unit.

- The lathe must be securely set up, i.e., it should be bolted to a workbench or other fixed underframe.
- Before commissioning, all covers and safety devices must be properly installed.
- Before connecting, make sure that the data on the nameplate corresponds to the mains data of your power supply system.
- Before you exchange tools on the machine (face driver/face plate) or adjust the speed, the mains plug must always be disconnected in order to prevent unintentional switching on, e.g., by other people.
- Transport the machine by lifting it to the machine bed. Observe the weight of the machine (see “Technical data”) and, if necessary, call in another person for help.

Assembly

1. Screw the second half of the machine bed to the main frame. Use the screw, two washers, the spring washer, and the nut at each of the three bolting points.
2. Place the tool support on the machine bed. Screw it together with the screw, plate, washer, and the clamping lever. If the tool support is in a position where the clamping lever is too long, the clamping lever can alternatively be replaced by the wing nut.
3. Screw the locking handle into the workpiece support.
4. Place the counter bracket on the machine bed. Screw it together with the screw, plate, washer, and the tension lever. If the counter bracket is in the position where the clamping lever is too long, the clamping lever can alternatively be replaced by the wing nut.
5. Push the handwheel onto the counter bracket spindle. Make sure that the side of the handwheel with the grub screw is guided over the flattened part of the counter bracket spindle. Tighten the grub screw with the supplied Allen key and screw the crank handle with the washer to the handwheel.
6. Mount the machine to a suitable surface (e.g., workbench or similar). The lathe can be mounted in several places. Use suitable fixing material, e.g., carriage bolts for fixing to a metal base frame. The fixing material is not included in the content of delivery and is available from specialist dealers.

Adjusting the counter bracket

- The counter bracket is adjusted after loosening the clamping lever located below the machine bed or the wing nut.
- After setting the optimum clamping pressure using the handwheel, the counter bracket spindle must be secured with the lock nut.

Adjusting the tool rest

- The height of the tool rest can be adjusted after releasing the locking handle.
- The adjustment of the tool support in longitudinal direction is possible after loosening the clamping lever or the wing nut below the machine bed.
- The tool rest must be brought as close as possible to the workpiece without touching it.

Warning! Make sure that the workpiece support is firmly tightened and cannot rotate into the workpiece.

Adjusting the speed

1. Remove the mains plug.
2. Loosen locking screw, open housing cover, and loosen motor clamping screws. Lift the motor V-belt to release the tension of the V-belt.

3. Fold the V-belt to the desired speed level (pay attention to the alignment!).
4. The belt tension is achieved by lowering the motor, the dead weight of the motor is sufficient.
5. Retighten the motor clamping screw after the speed adjustment, close housing cover and fix with locking screw.
6. A table with the corresponding speeds can be found on the inside of the housing cover.

Choosing the correct speed

- For new turning pieces, always start with the lowest possible speed and increase it with decreasing unbalance of the turning piece.
- Preselect the speed according to the cutting speed table, for non-circular workpieces start with zero speed.
- The choice of the correct speed depends on several factors when turning (e.g., size, balance, material, etc. of the workpiece).
- Thumb rule: non-circular workpieces, large workpieces, hard woods = low speed.

Conversion from face driver to face plate

1. Place the wrench onto the wrench surface, which is on the spindle directly behind the face driver.
2. Using another wrench, loosen the face driver counter-clockwise while holding the other wrench.
3. Now turn the face plate onto the thread of the spindle and tighten it with the wrench on the spindle.

Face driver and accompanying grain tip

- The face driver transmits the motor power to the workpiece when turning between the tips.
- When working between the face driver and the centring point, make sure that the centring hole is drilled sufficiently deep. The centring drill diameter should be 5–8 mm. Do not select a clamping pressure that is too high. Workpieces can become curved and break due to excessive clamping pressure.
- To avoid thread or bearing damage, the face driver must be driven with a rubber or wood hammer on the face of the workpiece.
- The accompanying centring point prevents the centring hole to be drilled in the workpiece from burning out.

Operation

Important notes on operation:

- When selecting your woodturning wood, please look for knots and dry cracks. Only use wood without cracks and without larger knots (for small knots, carefully select the contact pressure of the turning iron).
- Always check by hand that the wood to be turned is firmly placed.

Warning: Pull the mains plug!

- Only use original turning irons sharpened.
- When turning wooden discs, do not stand in the flight circle of the workpiece.
- Please use a band saw or scroll saw to cut large and unbalanced woodturning stock in the best possible way. Large unbalance of the turning material endangers your health and the service life of the machine.
- For new woodturning pieces, always start with the lowest possible speed and increase it with increasing improvement of the turning force.
- Do not use wooden discs with shrinkage cracks, as there is a high risk of bursting due to centrifugal force.
- Observe the maximum workpiece sizes (see “Technical data”).

- In case of blocked tools: pull out the mains plug before troubleshooting!
- Clamp workpieces between the face driver or face plate and the centring point. First tighten the counter bracket with the clamping lever or the wing nut. Then clamp the workpiece by turning the crank handle on the hand wheel.
- For turning, position yourself at the machine so that the cutting tools can be easily guided on the tool support.

On/off switch

- The lathe is switched on by pressing the green “I” button.
- To switch the lathe off, press the red button “O.”

Cable change

Danger! If the power cord of this unit is damaged, it must be replaced by the manufacturer or a qualified technician to avoid hazards. The lathe must not be put back into operation until it has been repaired.

Cleaning, maintenance, and spare part supply

Danger! Disconnect the mains plug before carrying out any cleaning work!

Cleaning

- Keep guards, air vents and the motor housing as free of dust and dirt as possible. Clean the unit with a clean cloth or blow it out with compressed air at low pressure.
- We recommend that you clean the unit immediately after each use.
- Clean the appliance regularly with a damp cloth and some mild detergent. Do not use cleaning agents or solvents as they may attack the plastic parts of the unit. Make sure that no water can get inside the unit. Penetration of water into an electrical appliance increases the risk of electric shock.

Motor starting problems

Excessive clamping pressure in conjunction with excessive belt tension can lead to motor start-up problems, especially at high speeds.

Possible solutions:

- Loosen belt tension.
- Reduce the clamping pressure on the counter bracket hand wheel.
- Only set high speeds for final and fine treatment of the workpieces.

Maintenance

There are no other parts to be serviced inside the unit.

Spare parts supply

The following information should be provided when ordering spare parts:

- Device type
- Device item number
- Device identification number
- Number of required spare part

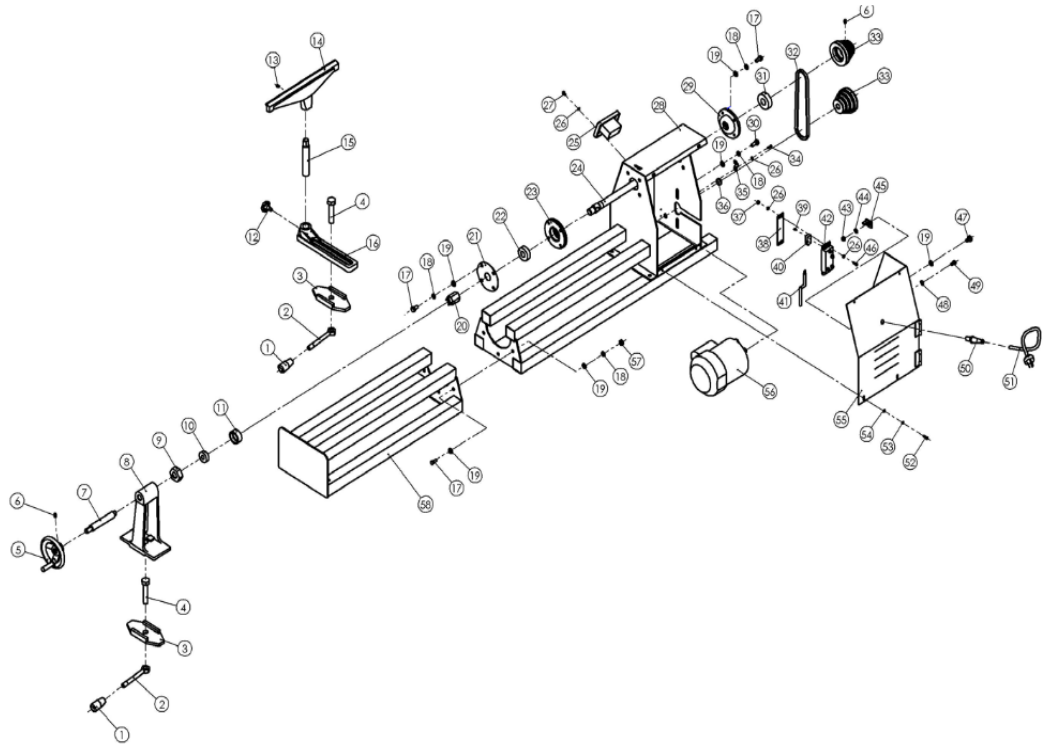
Disposal and recycling

The device is packaged to prevent damage during transport. This packaging is raw material and is therefore reusable or can be returned to the raw material cycle. The device and its equipment consist of various materials such as metal and plastics. Defective devices should not be disposed of with household waste. For proper disposal, the device should be disposed of at a suitable collection point. If you do not know of a collection point, please contact your local administration or another local authority.

Storage

Store the device and its equipment in a dark, dry and frost-free area. The optimum storage temperature is between 5 °C and 30 °C. Keep the power tool in its original packaging.

Exploded view and parts list



№	Name	Qty.	№	Name	Qty.	№	Name	Qty.
1	Handle cover	2	21	Baffle	1	41	Micro switch wire	1
2	Operating handle	2	22	Bearing	1	42	Switch Cover	1
3	Clamping plate	2	23	Bearing seat	1	43	Nut	1
4	Bolt	2	24	Axis	1	44	Elastic washer	1
5	Handwheel	1	25	Switch	1	45	Claw	1
6	Screw	3	26	Flat washer	6	46	Screw	2
7	Screw pole	1	27	Screw	4	47	Bolt	1
8	Counter bracket	1	28	Box	1	48	Flat washer	2
9	Nut	1	29	Bearing seat	1	49	Bolt	1
10	Bearing	1	30	Bolt	2	50	Cord sleeve	1

11	Center	1	**31**	Bearing	1	**51**	Cord and plug	1
12	Knob	1	**32**	Delta belt	1	**52**	Screw	4
13	Screw	1	**33**	Pulley	2	**53**	Elastic washer	4
14	Support bar	1	**34**	Screw	2	**54**	Flat washer	4
15	Pole	1	**35**	Cord clip	1	**55**	Back cover	1
16	Adjusting bar	1	**36**	Cord sleeve	1	**56**	Engine	1
17	Bolt	8	**37**	Nut	2	**57**	Nut	20
18	Elastic washer	20	**38**	Switch board	1	**58**	Bed	1
19	Flat washer	31	**39**	Screw	2			
20	Drive centre	1	**40**	Micro switch	1			

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WilTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).
The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.

Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

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Important notice: