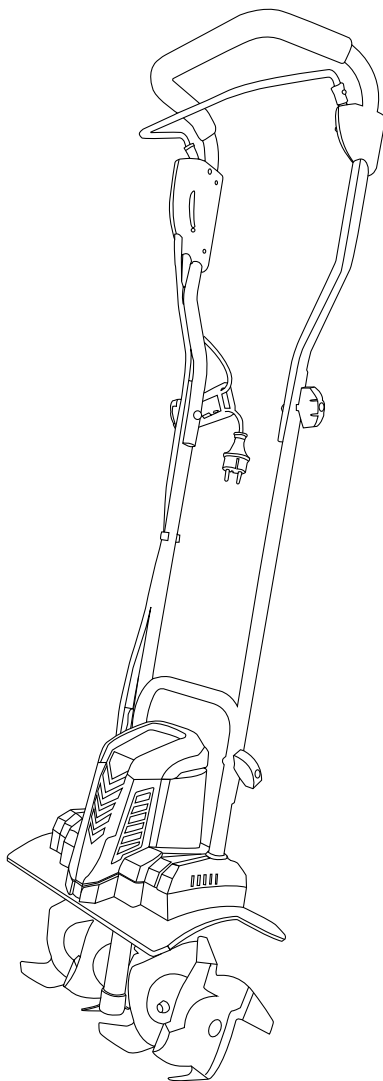




**Electric Tiller**  
**KS 1000T E**  
**KS 1500T E**



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## EXPLANATION OF SYMBOLS:

KS	<b>Könner &amp; Söhnen</b> production
T	tiller
E	electric
1500	model name

Read carefully these instructions. Pay special attention to information that begins with these characters / words:



**ATTENTION - DANGER!**

**Failure to follow the recommendations marked with this sign may lead to serious injury or death of the operator or third parties.**



**IMPORTANT!**

**Useful information while operating the machine.**

# 1. INTRODUCTION

We are grateful to you for your purchase of TM Könnner & Söhnen series electric triller. This manual contains safe working recommendations, operation and adjustment description of these trillers and maintenance instructions.

All data, specified in this operation manual is the most up to date for the moment of its publishing. At the end of this manual, you may find contact information which you are free to use in case of any issues occurrence.



**IMPORTANT!**



**Manufacturer reserves the right to make alterations into the tillers, which may not be reflected in this manual. Pictures and photos of the product may vary from its actual appearance.**

More information and contacts can be found on the website  
[www.ks-power.de/en](http://www.ks-power.de/en)

## 2. ELECTRIC TILLER OVERVIEW

**TM Könnner & Söhnen** tiller is designed for plowing large areas of soil around the house or in the garden. Easy to use triller significantly simplifies and speeds up the cultivation in greenhouses and in municipal utilities. Tiller has a lightweight design, is easy to use.

Electric tiller will be the best assistant in the household. You can not just plow the land, but also fertilize, loosen and level it, make weeding between rows and cut furrows. The main advantages **TM Könnner & Söhnen** tiller are:

- Low noise and vibration;
- Low weight;
- Simple in operation and maintenance;
- Compact;
- Easy cleaning.

### 3. MAIN SPECIFICATION

Model	KS 1000T E	KS 1500T E
Engine's type	electric	electric
Input Power	1000W	1200 W
Frequency	50 Hz	50 Hz
Voltage	230 V	230 V
Tilling blade diameter	22 cm	22 cm
Tilling Depth	≤ 22 cm	≤ 22 cm
Tilling Width	36 cm	45 cm
Noise level, Lpa (7m)/Lwa	68/93 dB	68/93 dB
Net Weight	8.0 kg	12.0 kg
Gross Weight	10.0 kg	14.5 kg
Protection class	IPX4	IPX4
Dimensions (L*W*H), mm	380*275*530	480*320*545

#### REQUIREMENTS FOR EXTENDING CABLE:

Maximum length: 50 m.

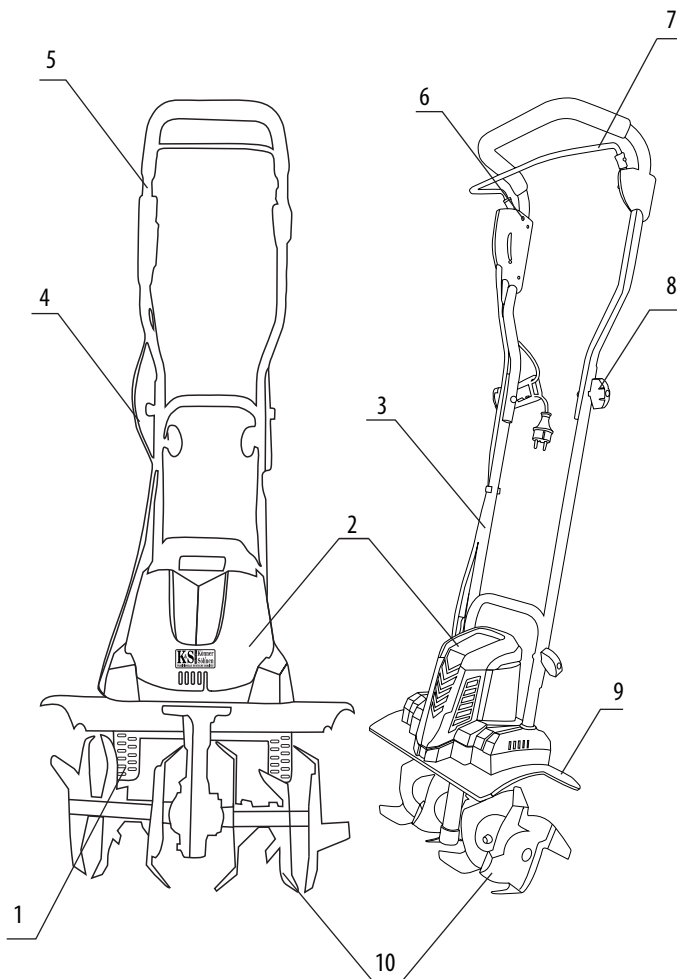
Intersection: 3 x 2,5 m<sup>2</sup>

### 4. PACKING LIST

#### PACKAGE INCLUDES:

- |                     |  |
|---------------------|--|
| 1. Tiller           | 1 pc.  |
| 2. Blades           | 4 pc. (for model KS 1000 T E)<br>6 pc. (for model KS 1500 T E) |
| 3. Operator's panel | 1 pc.  |
| 4. Wheel            | 2 pc. (for model KS 1500T E)                                   |
| 5. Owner's manual   | 1 pc.  |
| 6. Wrapping         | 1 pc.  |

## 5. MAIN OVERVIEW KS 1000T E, KS 1500T E



1. Wheel (for model KS 1500T E)
2. Engine
3. Frame
4. Power cable
5. Handle

6. Button of blocking
7. Lever of inclusion
8. Screws
9. Blade cover
10. Tilling blade

## 6. SAFETY INFORMATION

Please carefully read this manual before you start working with the tiller. Do not allow strangers and children to work with the device. Do not use the device in close presence of adults, children and animals. Tiller operator is responsible for all possible injuries, threat of property and life.

Könner & Söhnen tiller meets all applicable European regulations safety requirements. Do not make any changes in design of the device.

### **FOLLOW THESE REQUIREMENTS WHEN WORKING WITH TILLER:**

1. Read these instructions before you start using the equipment. Keep it for future use, follow the recommendations contained therein, it helps to avoid injury and damage.
2. Please review how to operate the tiller and its functions. In the event of unforeseen circumstances, the operator must know how to stop tillers work.
3. The operator of the device must be in good physical and mental condition, able to make quick decisions when necessary. Do not work with the cultivator after consuming alcohol, drugs or medication that can slow your response.
4. Tiller is designed to work with the soil during the sowing works, as well as plants care and treatment. Do not use tiller for other goals, not provided in this manual. Failure to follow these instructions may lead to serious injuries, electric shock or fire.

### **ELECTRICAL SAFETY**

- Könner & Söhnen electric tiller must be protected from rain and moisture. Avoid water penetration into the device, because this increases the risk of electric shock.
- The plug must meet tillers network socket. Making changes in the design of the fork is strictly prohibited.
- Use the power cord for its purpose. Wire is not designed to transfer the tiller, to hang it or pull plugs with the power cord. Protect it from sharp edges and moving parts of tiller, from exposure of oils and high temperatures. Damage to the wire or tangling increases the risk of electric shock.
- Check the device and the power cord before you start to work with a tiller.
- Make sure that the switch is locked when you switch on the plug in the socket.
- Use of lengthening cable is only allowed in open areas. It is important to equip the socket with fuse or emergency power switch.
- Turn off the power cord from the socket after using the cultivator. Always pull the cord back.
- Avoid any contact with grounded surfaces - pipes, heating elements and other. Risk of electric shock is greatly increased through the ground.



**It is forbidden to use a damaged wire!**

### **HUMAN SECURITY**

- Stay alert, watch what you are doing, think a step forward when working with a tiller.
- Turn the device just before the operation, making sure the switch is in working condition.
- Do not allow strangers to stay in the working area within a radius of 10 meters. The area must be freed from foreign objects.
- Electric tiller should not be used near explosive materials, gases and liquids. It can cause sparks that may cause fire or explosion.
- Avoid tiller overloading. Work in specified power range. Reduce the load or disable the tiller as the number of turns,.
- Tiller should be stored out of reach of children.

### **GETTING STARTED**

1. Always wear long pants and sturdy shoes with a non-slip soles when using the tiller. Operating with a device barefoot or in sandals is prohibited.
2. Carefully inspect the work area and remove all foreign objects.
3. Make a detailed review of equipment before its use. Ensure that equipment and its parts are in good condition. Completely replace the kit if there are any injuries or screws on cutting frames or mounting screws in order to keep the balance of the device .
5. Keep track on using time of the tiller, because excessive vibration can adversely affect your health.

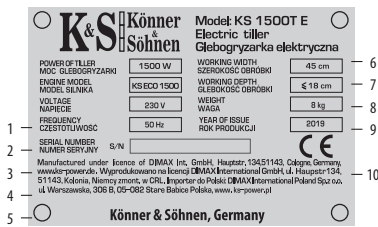
### **WORKING WITH A TILLER**

1. Turn on the engine observing the instructions in this manual, keeping a safe distance from feet to blades.
2. Do not lift or transporting the device when the engine is running!
3. Tiller can tip over when working on a slope. Do not use the tiller on hilly terrain with a slope of more than 10%. Angle of 10% corresponds to 10 cm. of lift to 100 cm of horizontal plane. Do not cultivate the land on steeper climbs to avoid losing control of the device.
4. Watch for correct positioning of the device on the slopes. It is prohibited to stand below the tiller due to the risk of losing control of the working machine.
5. Do not operate the device across the slope. Move forward and don't pull the machine back and forth.
6. Be careful when changing the direction of the tiller.
7. Reduce angular speed on the rocky ground.
8. Operate the tiller in the rate of pitch, as rapid movement may cause stumbling or slipping.
9. To adjust the depth of the units course, change effort by pressing the knob, pushing rear resistance mod more or less into the ground.
10. Do not overturn the engine and don't change motors basic position!

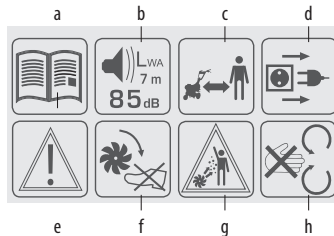
## RISK OF INJURY

- Tiller can be carried out only during the day or at very good artificial light.
- Never touch rotating parts, do not place arms and legs on or under moving parts.
- Be careful - do not treat the soil if there is the chance of electricity wiring in it, gas or plumbing. Use the appropriate search appliance to find these wires.
- Avoid using not recommended by the manufacturer tools.
- Make sure the motor is off and the device is completely stopped before putting the device for storage.

## 7. SYMBOLS DESCRIPTION



1. Höchstleistung des Motors
2. Motormodell
3. Spannung
4. Frequenz
5. Seriennummer
6. Pflügbreite
7. Pflügtiefe
8. Gewicht
9. Herstellungsdatum
10. Herstellerinformationen



- Please carefully read this manual before operation;
- The noise level within a radius of 7 m;
- Other people should keep a distance from the operating device;
- Take out of the socket after use;

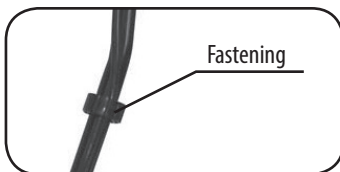
- Warning! Important information!
- Do not bring the feet to rotating blades;
- It is prohibited to stay in a working area of tiller;
- It is dangerous to touch tiller rotating blades.



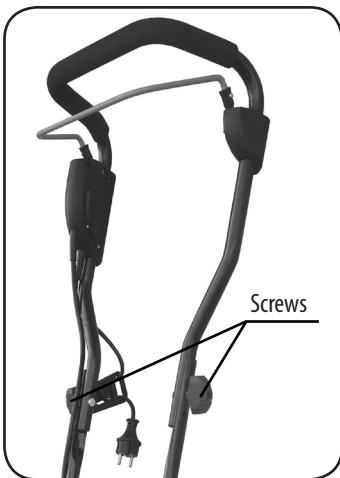
## 8. INSTALLATION



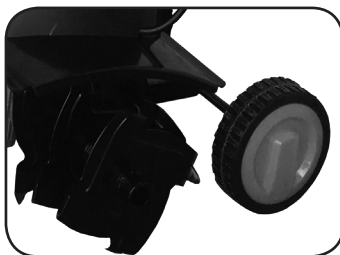
1. Using the screws that are in attachment, gather the bottom of the handle.



2. Install the attachment for the power cord, as shown in the illustration.



3. Fix the handle with the screws. Install the mounting wire on the handle as shown in the illustration.



4. Set the supporting wheels and adjust them to the required height with a screw. Firmly tighten the fixing screws after installing wheels.

## 9. OPERATION

### STARTING THE ENGINE

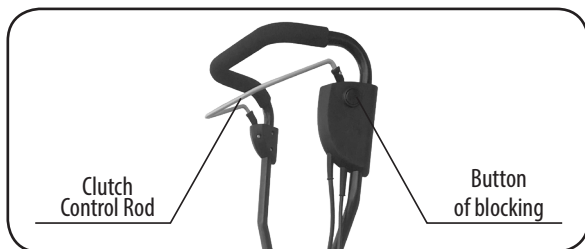
To start the engine turn the device into the socket, press with a finger of one hand the lock button to lock, another should press the lever of inclusion. Release the lock button when the engine starts.



**IMPORTANT!**



**The engine stops when you release the lever of inclusion.**



### ADVICE

For greater security, turn on the motor of a device only once you deliver it to the place of operation. Adjust the height of the wheels. Watch the electric current cable - it should always be behind you. Hold the tiller with two arms.



**ATTENTION - DANGER!**

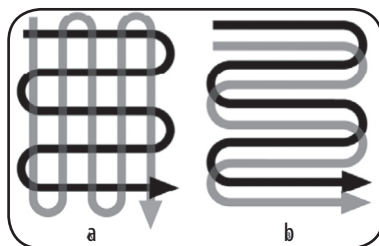


**Make sure engine of the tiller is turned off before performing work!**

The device moves forward due to the action of mills that are slowly sinking into the ground. If you need to perform deep tillage, would be efficient to move the tiller forward to a distance of outstretched hands, and then back to yourself. You can repeat the action until the required level of cultivation is achieved.

Make sure that the mills are working at top speed, but do not let overload. If the mills are too deeply dipped into the soil, gently shake the device from side to side and slow their release.

Use the following routes for preparation the ground for planting.



## 10. MAINTENANCE

Please perform only those work which are listed in this manual. In order to perform any other work, please, visit the authorized service center. Full list of addresses can be found on our official website [ks-power.de/en](http://ks-power.de/en)

For the correct operation of the device it is important to replace damaged and worn parts. Tighten all nuts and bolts to the maximum. Remove the remnants of grass and soil after each tiller use.

To prevent corrosion cover all metal parts of the tiller by grease before persistence. Use a soft cloth for cleaning plastic parts of a device. Do not use solvents and sharp objects. All ventilation openings and moving parts should be regularly cleaned of dirt.

### MILLS

Please look after the condition of mills. If they are worn or broken, contact the service center to replace them. All mills are replaced at once as one set. The use of old or broken cutters may lead to overload of the motor efficiency and a significant reduction of tillering. Use protective gloves for working with the cutters.

### STORAGE

Before installing cultivator for the storage carefully inspect the device for possible faults - the machine should always be ready for operation. Keep it in dry and dust-free room, out of reach of children.

When installing for the lengthy storage (e.g. in winter), it is necessary that all external parts of the product have been carefully cleaned of dirt and all moving parts of the tiller are lubricated with oil or grease.

When disposing the product please keep on mind that the tiller packaging, accessories and the device is manufactured from suitable for recycling materials.

[www.ks-power.de/en](http://www.ks-power.de/en)

# 11. WARRANTY SERVICE TERMS

## **TERMS AND CONDITIONS:**

The international manufacturer warranty is 1 year. The warranty period starts from the date of purchase. In cases when warranty period is longer than 1 year according to local legislation please contact your local dealer. The Seller which sells the product is responsible for granting the warranty. Please contact the Seller for warranty. Within the warranty period, if the product fails because of defects in the production process, it will be exchanged on the same product or repaired.

The warranty card should be kept throughout the warranty period. In case of warranty card loss, a second one will not be provided. The customer must provide the warranty card and buyer`s check during request for repair or exchange. Otherwise, the warranty service will not be provided. The warranty card, attached to the product during sale, should be correctly and fully completed by the retailer and customer, signed and stamped. In other cases, warranty is not considered as valid.

Provide clean product to the service center. Parts, that must be replaced, are the property of the service center.

## **WARRANTY EXCLUSIONS:**

- If the user has failed to comply with the instructions in this manual.
- If the product features damaged or missing identification stickers or labels, serial numbers, etc.
- If product malfunction was due to improper transportation, storage and maintenance.
- In case of mechanical damages (cracks, chips, impact and fall marks, deformation of housing, power cord, plug or any other components), including those resulting from the freezing of water (ice formation), provided there are foreign objects inside the unit.
- If the product has been improperly installed and connected to the mains supply or misused.
- If the claimed malfunction cannot be diagnosed or demonstrated.
- If proper operation of the product can be restored following cleaning from dust and dirt, appropriate adjustment, maintenance, oil change, etc.
- If the product is used for business related purposes.
- If faults are detected, which have been caused by product overload. Signs of overload are molten or discolored parts as a result of high temperatures, damaged cylinder or piston surfaces, degraded piston rings or connecting rod bushes.
- The warranty does not cover the failure of the product automatic voltage regulator due to careless handling or mishandling.
- If faults are detected, which have been caused by instability of the user`s power grid.

- If electrical cables or plugs show signs of mechanical or thermal damage.
- In the event of foreign liquids and objects, metal chips, etc. inside the product.
- If the malfunction is caused by the use of non-original spare parts and materials, oils, etc.
- If there are two or more faulty units that are not interconnected.
- If the damage was caused by natural factors such as dirt, dust, humidity, high or low temperature, natural disasters.
- To quick-wear parts and components (spark plugs, nozzles, pulleys, filter and safety elements, batteries, removable devices, belts, rubber seals, clutch springs, axles, manual starters, oils, gear).
- To preventive maintenance (cleaning, greasing, washing), installation and adjustment.
- If the product was tampered with, independently repaired or modified.
- In case of malfunctions resulting from normal wear and tear as a result of long-term use (end of life).
- If product operation was not stopped and continued after detecting a malfunction.
- Batteries supplied with equipment are covered by a warranty of three months.



# EC Declaration of Conformity

Nr. 042

The following products have been tested by us with the listed standards and found in compliance with the European Community Machinery Directive 2006/42/EC, Electromagnetic compatibility Directive (EMC) 2014/30/EC.

Manufacturer: DIMAX INTERNATIONAL GmbH  
Address: Hauptstr. 134, 51143 Cologne, Germany

Product: Electric tillers "Könner & Söhnen"

Type / Model: KS 1000T E, KS 1500T E

The statement is based on a single evaluation of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo. The manufacturer should ensure that all product in series production are in conformity with the product sample detailed in this report. The applicant should hold the whole technical report at disposal of the competent all the right.

Applied EC Directives: 2006/42/EC Machinery Directive  
2014/30/EC Electromagnetic compatibility Directive (EMC)

Applied Standards: EN 60335-1:2012+A11+A 13  
EN ISO 12100:2010, EN 709:1997+A4  
EN 62233:2008, AfPS GS 2014  
EN 55014-1:2017, EN 55014-2-2015  
EN 61000-3-2:2014, EN 61000-3-3:2013



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**Issued Date:** 2019-01-30  
**Place of issue:** Warsaw city  
**Technical expert:** Homenco A.

DIMAX  
International  
GmbH

Steuer-Nr.: 103 5722 2493  
USt-IdNr.: DE29617274

We DIMAX INTERNATIONAL GmbH hereby declare that specified above conforms covering European Parliament and Council Directives, 2006/42/EC of 17 May 2006 Machinery Directive, Electromagnetic compatibility Directive (EMC) 2014/30/EC of 26 February 2014. The CE mark above can be used under the responsibility of manufacturer. After completion of an EC declaration of Conformity and compliance with all relevant EC directives.

## CONTACTS

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