scheppach DP16VLS Column Drilling Machine User Manual

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DP16VLS
Drill press
Operating Manua


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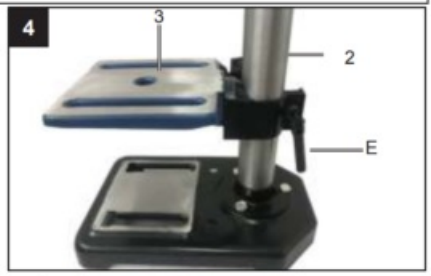
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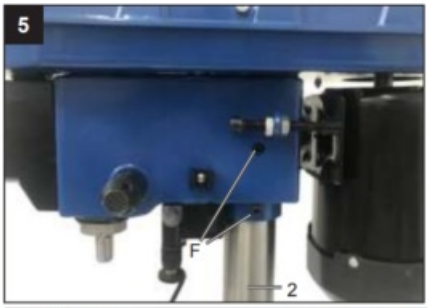
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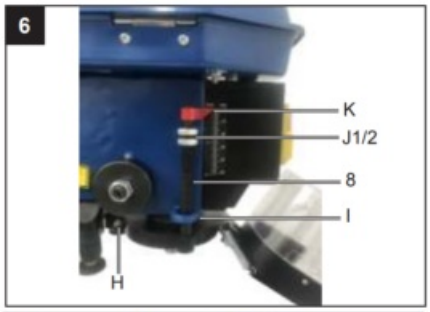
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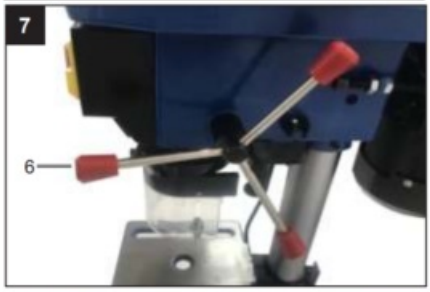
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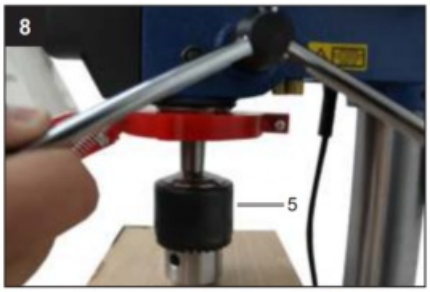
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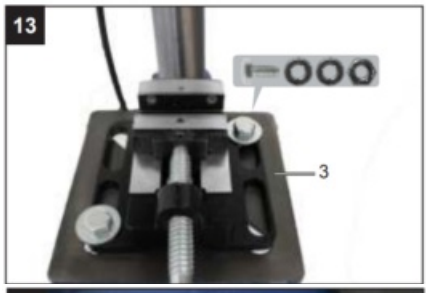
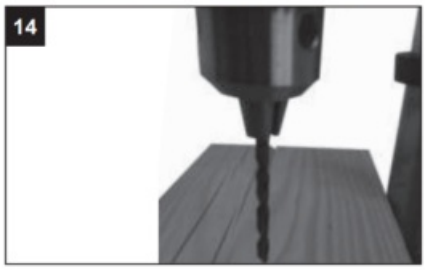
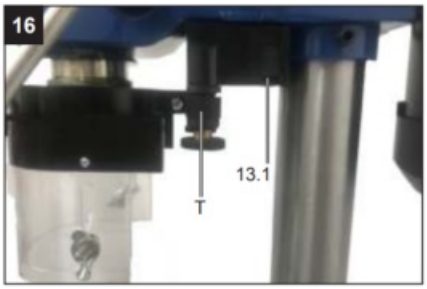
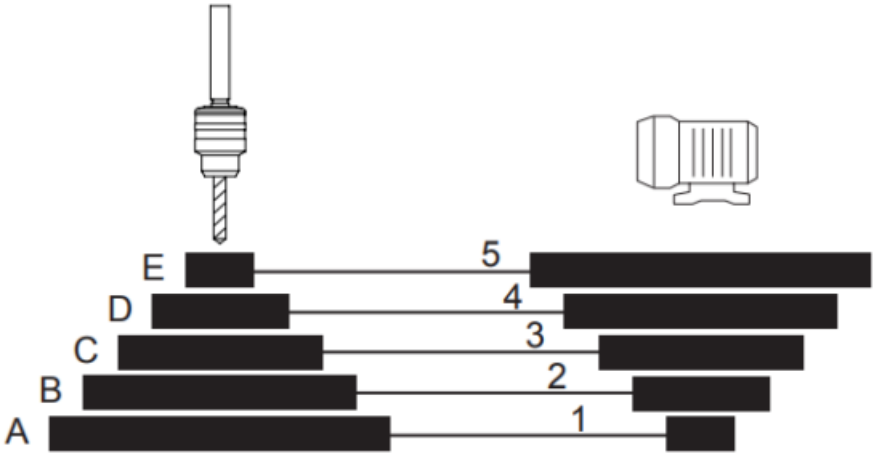








600 1/min	A	1
900 1/min	B	2
1300 1/min	C	3
1800 1/min	D	4
2600 1/min	E	5

Contents

Explanation of the symbols on the equipment

	Warning! Danger to life, risk of injury, or damage to the tool is possible by ig
	Caution – Read the operating instructions to reduce the risk of inquiry
	Wear safety goggles!
	Wear ear-muffs!
	Wear a breathing mask!
	Do not wear long hair uncovered. Use a hairnet.
	Do not wear gloves.

Introduction

MANUFACTURER: scheppach Fabrikation von Holzbearbeitungsmaschinen GmbH
Günzburger Straße 69
D-89335 Ichenhausen

DEAR CUSTOMER,
We hope your new tool brings you much enjoyment and success.

NOTE:
According to the applicable product liability laws, The manufacturer of the device does not assume liability for damages to the product or damages caused by the product that occurs due to:

- Improper handling,
- Non-compliance with the operating instructions,

- Repairs by third parties, not by authorized service technicians,
- Installation and replacement of non-original spare parts,
- Application other than specified,
- A breakdown of the electrical system that occurs due to the non-compliance of the electric regulations and VDE regulations 0100, DIN 57113 / VDE0113.

WE RECOMMEND:

Read through the complete text in the operating instructions before installing and commissioning the device.

The operating instructions are intended to help the user to become familiar with the machine and take advantage of its application possibilities in accordance with the recommendations.

The operating instructions contain important information on how to operate the machine safely, professionally, and economically, how to avoid danger, and costly repairs, reduce downtimes, and how to increase the reliability and service life of the machine.

In addition to the safety regulations in the operating instructions, you have to meet the applicable regulations that apply to the operation of the machine in your country.

Keep the operating instructions package with the machine at all times and store it in a plastic cover to protect it from dirt and moisture. Read the instruction manual each time before operating the machine and carefully follow its information. The machine can only be operated by persons who were instructed concerning the operation of the machine and who are informed about the associated dangers. The minimum age requirement must be complied with.

In addition to the safety requirements in these operating instructions and your country's applicable regulations, you should observe the generally recognized technical rules concerning the operation of woodworking machines.

Device Description (Fig.1-2)

1. Baseplate
2. Pillar
3. Drilling table
4. Machine head
5. Drill chuck
6. Grips
7. Drill chuck protection
8. Depth stop
9. Motor
10. On-Off switch
11. Belt protective hood
12. Locking grip for belt tension
13. Laser on/off switch

    13.1 Battery compartment cover
14. Vice

A Hexagonal screw

B 4 mm Allen key
C Vice fastening screws
D Drill chuck key

Unpacking

- Open the packaging and remove the device carefully.
- Remove the packaging material as well as the packaging and transport bracing (if available).
- Check that the delivery is complete.
- Check the device and accessory parts for transport damage.
- If possible, store the packaging until the warranty period has expired.

ATTENTION
The device and packaging materials are not toys! Children must not be allowed to play with plastic bags, film, and small parts! There is a risk of swallowing and suffocation!

Intended use

The bench drill is designed for drilling in metal, wood, plastic, and tiles. Straight shank drills with a drilling diameter from 3 mm to 16 mm can be used. The device is intended to be used by do-it-yourselfers. It was not designed for heavy commercial use. The tool is not to be used by persons. under the age of 16. Children over the age of 16 may use the tool except under supervision. The manufacturer is not liable for damage caused by improper use or incorrect operation of this device. The bench-type circular saw is designed for the slitting and crosscutting of all types of timber, commensurate with the machine's size. The machine is not to be used for cutting any type of Roundwood.

Notes on safety

 Caution! When using power tools, observe the following basic safety measures for the prevention of electric shocks and the risk of injury and fire. Please read all these instructions before using this electric tool and please keep the safety instructions.

General notes on safety

 **Caution!** When using power tools, observe the following basic safety measures for the prevention of electric shocks and the risk of injury and fire: There is a risk of injury.
General Safety Instructions for Power Tools

 **WARNING! Read all safety instructions and guidelines carefully.** Failure to follow the safety instructions and guidelines may result in electric shock, fire, and/or serious injuries.

Save all safety instructions and guidelines for the future.
The term „power tool" used in the safety instructions refers to mains-operated electric tools (with a mains cable) and to battery-operated electric tools (without a mains cable).

Safe working

- **Keep your work area tidy**
  – An untidy workplace can lead to accidents.

- **Consider environment influences**
  – Do not expose power tools to rain.
  – Do not use power tools in damp or wet surroundings.
  – Ensure the work area is adequately lit.
  – Do not use power tools where there is a fire or explosion hazard.
- **Protect yourself against electric shock**
  – Avoid body contact with earthed parts (e.g. pipes, radiators, electric cookers, refrigerators).
- **Keep other people away**
  – Do not allow other people, especially children, to touch the power tool or cable. Keep them away from your work area.
- **Store unused power tools safely.**
  – Unused power tools should be stored in a dry, high, or locked place, out of the reach of children.
- **Do not overload your power tool.**
  – Your work better and more safely within the specified power range.
- **Use the correct power tool**
  – Do not use low-performance machines for heavy work.
  – Do not use the power tool for purposes for which it is not intended. For example, do not use a circular hand saw for cutting tree branches or logs.
- **Wear suitable clothing**
  – Do not wear loose clothing or jewelry that might become caught in moving parts.
  – When working outdoors, non-slip footwear is recommended.
  – Wear a hair net to contain long hair.
- **Use protective equipment**
  – Wear safety goggles.
  – Use a dust mask for work that generates dust.
- **Connect a dust extraction device**
  – If connections are available for dust extraction and collection devices, make sure that these are connected and properly used.
- **Do not use the cable for purposes for which it is not intended**
  – Do not use the cable to pull the plug from the socket.
  – Protect the cable from heat, oil, and sharp edges.
- **Secure the workpiece**
  – Use jigs or a vice to hold the workpiece securely. This is safer than using your hand.
- **Avoid abnormal body postures.**
  – Ensure secure footing and keep your balance at all times.
- **Maintain tools with care**
  – Keep cutting tools sharp and clean for better and safer working.
  – Follow the instructions for lubrication and changing tools.
  – Regularly check the connection cable of the power tool and, if it is damaged, have it replaced by a qualified specialist.
  – Check extension cords periodically and replace them if they are damaged.
  – Keep handles dry, clean, and free from oil and grease.
- **Remove the plug from the mains socket**

– when the power tool is not in use, before maintenance, and when changing tools such as saw blades, drill bits, and cutters.

- **Do not allow any tool keys to remaining inserted.**
  – check, before switching on, that keys and adjusting tools have been removed.
- **Avoid unintentional starting**
  – Make sure that the switch is off when inserting the plug into the socket.
- **Use extension cables outdoors**
  – Only use approved and appropriately marked extension cables outdoors.
- **Pay attention at all times**
  – Pay attention to what you are doing. Work using common sense. Do not use the power tool if you cannot concentrate.
- **Check the power tool for possible damage**
  – Before further use of the power tool, safety devices or slightly damaged parts must be carefully examined in respect of their proper and intended function.
  – Check that the moving parts are working properly and are not jammed or whether parts are damaged. All parts must be correctly fitted and satisfy all conditions to ensure the proper operation of the power tool.
  – Damaged safety equipment and parts must be repaired properly or replaced by an authorized specialist workshop unless otherwise indicated in the instructions.
  – Damaged switches must be replaced at a customer service workshop. – Do not use power tools if the switch cannot be turned on and off.
- **CAUTION!**
  – The use of other bits and other accessories can result in a risk of personal injury.
- **Have your power tool be repaired by a qualified electrician**
  – This power tool complies with the relevant safety regulations. Repairs may only be performed by a qualified electrician, using original spare parts; otherwise, accidents involving the user may result.

Warning! This electric tool generates an electromagnetic field during operation. This field can impair active or passive medical implants under certain conditions. In order to prevent the risk of serious or deadly injuries, we recommend that persons with medical implants consult with their physician and the manufacturer of the medical implant prior to operating the electric tool.

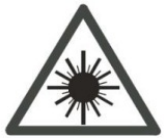
Service:

- Have your power tool repaired only by qualified specialists and only with original spare parts. This will ensure that the power tool remains safe.

Safety Instructions for Box Column Drills

- **Never make the warning labels on the power tool illegible.**
- **Attach the power tool to a solid, flat, and horizontal surface.** If the power tool can slip or wobble, the bit may not be guided smoothly and safely.
- **Keep the work area clean except for the workpiece to be machined.** Sharp-edged drilling chips and objects can cause injury. Material mixtures are particularly dangerous. Light metal dust can burn or explode.

- **Set the correct speed before starting work. The speed must be appropriate for the drill diameter and the material to be drilled.** At an incorrectly set speed, the bit may get jammed in the workpiece.
- **Only when the device is turned on should the bit be moved against the workpiece.** Otherwise, there is a danger that the bit will get jammed in the workpiece and the workpiece will rotate with the bit. This can lead to injuries.
- **Do not put your hands in the area of the drill while the power tool is running.** Upon contact with the bit is a risk of injury.
- **Never remove drilling chips from the drilling area while the power tool is running.** Always put the drive mechanism in the standby position first and then turn on the power tool.
- **Do not remove accumulated drill chips with your bare hands.** There is a risk of injury due to hot and sharp metal shavings in particular.
- **Break up long drilling chips by interrupting the drilling operation with a short backward rotation of the rotary wheel.** Long drilling chips may cause injury.
- **Keep handles dry, clean, and free from oil and grease.** Greasy, oily handles are slippery and lead to loss of control.
- **Use clamps to hold the workpiece in place. Do not work on any workpieces that are too small for clamping.** If you hold the workpiece by hand, you cannot hold it sufficiently tightly against rotation and may hurt yourself.
- **Switch the power tool off immediately if the bit jams.** The bit jams when:
  – the power tool is overloaded or
  – the workpiece to be machined is jammed.
- **Do not touch the bit after working before it has cooled down.** The bit is very hot during use.
- **Inspect the cable regularly and have a damaged cable repaired only by an authorized customer service center. Replace damaged extension cables.** This will ensure that the power tool remains safe.
- **Store unused power tools in a safe place. The storage place should be dry and lockable.** This prevents the power tool from being damaged as a result of being stored or operated by inexperienced people.
- **Never leave the tool before it has come to a complete standstill.** Running bits can cause injury.
- **Do not use the power tool with a damaged cable. Do not touch the damaged cable and pull the mains plug if the cable is damaged while working.** Damaged cables increase the risk of electric shock.



Attention: Laser radiation
Do not stare into the beam Class 2 laser

Protect yourself and your environment from accidents using suitable precautionary measures!

- Do not look directly into the laser beam with unprotected eyes.

- Never look into the path of the beam.
- Never point the laser beam towards reflecting surfaces and persons or animals. Even a laser beam with a low output can cause damage to the eyes.
- Caution – methods other than those specified here can result in dangerous radiation exposure.
- Never open the laser module. Unexpected exposure to the beam can occur.
- If the miter saw is not used for an extended period of time, the batteries should be removed.
- The laser may not be replaced with a different type of laser.
- Repairs of the laser may only be carried out by the laser manufacturer or an authorized representative.

Safety instructions for handling batteries

1. Always make sure that the batteries are inserted with the correct polarity (+ and –), as indicated on the battery.
2. Do not short-circuit batteries.
3. Do not charge non-rechargeable batteries.
4. Do not overcharge batteries!
5. Do not mix old and new batteries or batteries of different types or manufacturers! Replace an entire set of batteries at the same time.
6. Immediately remove used batteries from the device and dispose of them properly! Do not dispose of batteries with household waste. Defective or Used batteries must be recycled according to Directive 2006/66 / EC. Give back batteries and/or the device has been offered to the collective facilities. About disposal facilities, you can inform your municipal or city government.
7. Do not allow batteries to heat up!
8. Do not weld or solder directly on batteries!
9. Do not dismantle batteries!
10. Do not allow batteries to deform!
11. Do not throw batteries into the fire!
12. Keep batteries out of the reach of children.
13. Do not allow children to replace batteries without supervision!
14. Do not keep batteries near the fire, ovens, or other sources of heat. Do not use batteries in direct sunlight or store them in vehicles in hot weather.
15. Keep unused batteries in the original packaging and keep them away from metal objects. Do not mix unpacked batteries or toss them together! This can lead to a short-circuit of the battery and thus damage burns, or even the risk of fire.
16. Remove batteries from the equipment when it will not be used for an extended period of time unless it is for emergencies!
17. NEVER handle batteries that have leaked without appropriate protection. If the leaked fluid comes into contact with your skin, the skin in this area should be rinsed off under running water immediately. Always prevent the fluid from coming into contact with the eyes and mouth. In the event of contact, please seek immediate medical attention.
18. Clean the battery contacts and corresponding contacts in the device prior to inserting the batteries:

Residual risks

The machine has been built according to the state of the art and the recognized technical safety requirements.

However, individual residual risks can arise during operation.

- Health hazard due to electrical power, with the use of improper electrical connection cables.
- Furthermore, despite all precautions having been met, some non-obvious residual risks may still remain.
- Residual risks can be minimized if the „safety instructions“ and the „Proper use“ are observed along with the whole of the operating instructions.
- Do not load the machine unnecessarily: excessive pressure when sawing will quickly damage the saw blade, which results in reduced output of the machine in the processing and in cut precision.
- When cutting plastic material, please always use clamps: the parts which should be cut must always be fixed between the clamps.
- Avoid accidental starting of the machine: the operating button may not be pressed when inserting the plug into an outlet.
- Use the tool that is recommended in this manual. In doing so, your drill press provides optimal performance.
- Hands may never enter the processing zone when the machine is in operation. Release the handle button and switch off the machine prior to any operations.
- Prior to any adjustment, maintenance, or service work disconnect the mains power plug!

Technical Data

Nominal input voltage	**230-240 V~/50 Hz**
Power rating	**500 W (S2 15min)**
Motor speed	**1450 min**
Output speed (infinitely	**-1**
adjustable)	**600 -2600 min**
Drill chuck mount	**-1**
Drill chuck	**B16**
Dimensions of drill table	**3 – 16 mm**
Angle adjustment of	**164 x 162 mm**
table	**45°/0°/45°**
Drill depth	**50 mm**
Pillar diameter	**46 mm**
Height	**600 mm**
Base area	**290 x 190 mm**
Weight	**13,5 kg**
Laser class	**II**
Wavelength of laser	**650 nm**
Laser output	**< 1 mW**

Noise and vibration values
The total noise values were determined in accordance with EN 61029.

sound pressure level LpA	71
uncertainty KpA	3 d
sound power level LWA	84
uncertainty KWA	3 d

Wear hearing protection.

The effects of noise can cause a loss of hearing.
Total vibration values (vector sum – three directions) determined in accordance with EN 61029.

Vibration emission value ah = 1,6 m/s 2
K uncertainty = 1,5 m/s 2

The specified vibration value was established in accordance with a standardized testing method. It may change according to how the electric equipment is used and may exceed the specified value in exceptional circumstances.

The specified vibration value can be used to compare the equipment with other electric power tools.

The specified vibration value can be used for the initial assessment of a harmful effect.

Assembly

Column and machine foot, Fig. 3

1. Set the machine foot (1) down on the ground or the workbench.
2. Place column (2) on the base plate so that the holes on column (2) align with the holes on the base plate (1).
3. Screw the hexagonal screws (A) to fasten the column into the base plate and tighten them using a hexagon spanner.

Table and pillar, Fig. 4

1. Slide the drilling table (3) onto the pillar (2). Position the table directly above the base plate.
2. Install the table bolting (E) in the table unit from the left side and tighten it.

Machine head and pillar, Fig. 5

1. Place the machine head (4) onto the pillar (2).
2. Put the spindle of the drilling machine with the table and the base plate in the cover and fasten the 2 Allen screws (F).

Drill chuck protection with depth stop, Fig. 6

Fit the chuck protection with depth stop (8) onto the spindle pipe and tighten the slotted screw (H).
Caution! The depth stop must be fed through the drilling (I) on the housing. Screw on the two nuts (J1/2) and place the indicator (K) onto the depth stop. The indicator (K) must point at the scale.

Feed handles to the shaft hub, Fig. 7
Screw the feed handles (6) tightly into the threaded holes in the hub.

Installing the chuck, Fig. 8

1. Clean the conical hole in the chuck (5) and the spindle cone with a clean piece of fabric. Make sure there are no foreign particles sticking to the surfaces. The slightest piece of dirt on any of these surfaces will prevent the chuck from seating properly. This will cause the drill bit to wobble“. If the tapered hole in the chuck is extremely dirty, use a cleaning solvent on the clean cloth.
2. Push the chuck up on the spindle nose as far as it will go.
3. Turn chuck sleeve anticlockwise (when viewed from above) and open jaws in chuck completely.
4. Place a piece of wood on the machine table and lower the spindle onto the piece of wood. Press firmly to ensure that the food sits exactly.

Fastening radial drill press to supporting surface

For your own safety, it is highly recommended to install the machine on a bench or similar.

WARNING:
All the necessary adjustments for the good working of your drill press have been done at the factory. Please do not modify them. However, because of the normal wear and tear of your tool, some readjustments might be necessary.

WARNING: Always unplug our tool from the power source before any adjustment“ Adjusting the spindle retaining spring (Fig.9) It may be necessary for the spindle retaining spring to be adjusted because of changed tension, making the spindle return too quickly or too slowly.

1. To provide more space, lower the table.
2. Work on the left side of the drill.
3. Put a screwdriver in the front lower notch (L), keeping it in place.
4. Remove the outer locknut (O) with a flat spanner (SW16).
5. Leaving the screwdriver in the notch, loosen the inner locknut (N) until the cut-out is released from the boss (P). WARNING! Spring is under tension!
6. Using the screwdriver, carefully turn the spring cap (M) anti-clockwise until you can press the notch into the boss (P).
7. Lower the spindle to the lowest position and hold the spring cap (M) in place. When the spindle moves up and down as desired, retighten the inner locknut (N).
8. If it is too loose, repeat steps 3-5. If it is too tight, repeat step 6 in reverse order.
9. Using a flat spanner, tighten the outer locknut (O) against the inner locknut (N).

NOTE: Do not over-tighten and do not restrict the movement of the spindle!

Operation

WARNING: If you are not familiar with this kind of machine, take advice from an experimented person. In any case, you should have read and understood the safety and operational instruction before attempting to operate this product.

Pivoting the table, Fig. 10 1.

To bring the table (3) to the inclined position, release the table locking (S) and adjust the desired table angle. Re-tighten the table locking

Adjusting table height., Fig. 11

1. Loosen the table support lock handle (E).
2. Adjust the table (3) to the desired height.
3. Re-tighten the table locking (E).

Note: it is better to lock the table to the column in a position so that the tip of the drill bit is just slightly above the top of the workpiece

Choosing speed and tensioning belt, Fig. 12
Note! Pull the power plug!

1. You can set different spindle speeds on your pillar drilling machine:
2. WITH THE SWITCH „OFF“, open the pulley cover.
3. Loosen the drive belt on the right side of the machine head by unfastening the locking nuts (12) on both sides. Pull the right side of the motor in the direction of the spindle to loosen the v-belt. Tighten the wing screws again.
4. Attach the v-belt to the corresponding belt pulleys.
5. Loosen the wing screws and push the right side of the motor backward to clamp the v-belt again.
6. Tighten the belt tension lock knob. The belt should deflect approximately 13 mm –1/2“ -by thumb pressure at the mid-point of the belt between pulleys.
7. Close pulley cover.
8. If the belt slips while drilling readjusts belt tension.

Tip: Safety switches If you want to adjust the speed you have to open the pulley cover. The device switches off immediately to avoid the risk of injuries.

Removing the chuck
Open jaws of chuck as wide as they go by turning chuck’s sleeve anticlockwise (when viewed from above). Carefully tap chuck with a mallet in one hand while holding chuck in another hand to prevent dropping it when released from the spindle nose.

Fitting tools to the drill chuck
Make sure that the power plug is removed from the socket-outlet before changing tools.

Only cylindrical tools with the stipulated maximum shaft diameter may be clamped in the drill chuck (5). Only use a tool that is sharp and free of defects. Do not use tools whose shaft is damaged or which are deformed or flawed in any other way.

Use only accessories and attachments that are specified in the operating instructions or have been approved by

the manufacturer.

Using the drill chuck
Your drill is equipped with a gear-toothed drill chuck (5). In order to insert a drill bit (7), flip up the chip guard (5), insert the drill bit, then tighten down the drill chuck using the supplied chuck key (D). Pull out the chuck key (D). Ensure that the clamped tool is firmly seated.

Important! Do not leave the chuck key in the clamp hole.
Doing so will cause the chuck key to be catapulted out, which could cause injury.

Depth scale method, Fig. 6
Note: for this method, with the spindle in its upper position the tip of the drill bit must be just slightly above the top of the workpiece.

1. Switch off the machine, and lower the drill so far until the indicator points at the desired drilling depth of the depth scale.
2. Turn the lower nut (J2) downwards until it reaches the lower stop (I).
3. Lock the lower nut (J1) against the upper nut.
4. The chuck and the drill bit will now be stopped after traveling downward the distance selected on the depth scale.

Clamping the workpiece (Fig.13+14)
As a general rule, use a machine vice or another suitable clamping device to lock a workpiece into position.

Never hold the workpiece in place with your hand!
When drilling, the workpiece should be able to travel on the drill table (3) for self-centering purposes. Ensure that the workpiece cannot rotate. This is best achieved by placing the workpiece/machine vice on a sturdy block.
Important. Sheetmetal parts must be clamped in to prevent them from being torn up. Properly set the height and angle of the drill table for each workpiece. There must be enough distance between the upper edge of the workpiece and the tip of the drill bit.

Positioning table and workpiece, Fig. 14
Always place a piece of backup material (‘wood, plywood…) on the table underneath the workpiece. This will prevent splitting or making a heavy burr on the underside of the workpieces as the drill bit breaks through. To keep the backup material from spinning out of control it must contact the left side of the column as illustrated.

Warning:
To prevent the workpiece or the backup material from being torn from your hand while drilling, position them to the left side of the column. If the workpiece or the backup material is not long enough to reach the column, clamp them to the table. Failure to do this could result in personal injury. Note: For small pieces that cannot be clamped to the table, use a drill press vise. The vice must be clamped or bolted to the table to avoid injury from spinning work and vise or tool breakage.

Using the laser (Fig.15+16)

Replacing the battery: Switch off the laser. Remove the battery compartment cover (13.1). Remove the batteries and replace them with new batteries.

To switch ON:
Move the ON/OFF switch (13) to the “I” position to switch on the laser. Two laser lines are projected on the workpiece and intersect at the center of the drill tip contact point.

To switch OFF: Move the ON/OFF switch (13) to the “0” position.

Setting the laser (Fig.15+16)
The laser can be adjusted via the adjusting screws (T)

Working speeds
Ensure that you drill at the proper speed. The drill speed is dependent on the diameter of the drill bit and the material in question.

The table below acts as a guide for selecting the proper speed for various materials.

The drill speeds specified are merely suggested values.

Drill bit Ø	Cast iron	Steel	Aluminium	Bronze
3	2550	1600	9500	8000
4	1900	1200	7200	6000
5	1530	955	5700	4800
6	1270	800	4800	4000
7	1090	680	4100	3400
8	960	600	3600	3000
9	850	530	3200	2650
10	765	480	2860	2400
11	700	435	2600	2170
12	640	400	2400	2000
13	590	370	2200	1840
14	545	340	2000	1700
16	480	300	1800	1500

Countersinking and center-drilling
With this table drill, you can also countersink and center drill. Please observe that countersinking should be performed at the lowest speed, while a high speed is required for center drilling.
Drilling wood
Please note that sawdust must be properly evacuated when working with wood, as it can pose a health hazard. Ensure that you wear a suitable dust mask when performing work that generates dust.

Electrical connection

The electrical motor installed is connected and ready for operation. The connection complies with the applicable VDE and DIN provisions. The customer‘s mains connection, as well as the extension cable used, must also comply with these regulations.

Important information
In the event of overloading the motor will switch itself off. After a cool-down period (time varies) the motor can be

switched back on again.

Damaged electrical connection cable
The insulation on electrical connection cables is often damaged. This may have the following causes:

- Passage points, where connection cables are passed through windows or doors.
- Kinks where the connection cable has been improperly fastened or routed.
- Places where the connection cables have been cut due to being driven over.
- Insulation damage due to being ripped out of the wall outlet.
- Cracks due to the insulation aging.

Such damaged electrical connection cables must not be used and are life-threatening due to the insulation damage.

Check the electrical connection cables for damage regularly. Make sure that the connection cable does not hang on the power network during the inspection. Electrical connection cables must comply with the applicable VDE and DIN provisions. Only use connection cables with the marking „H05VV-F“. The printing of the type designation on the connection cable is mandatory.

AC motor

- The mains voltage must be 230 V~
- Extension cables up to 25 m long must have a cross-section of 1.5 mm 2.

Connections and repairs of electrical equipment may only be carried out by an electrician.

Please provide the following information in the event of any inquiries:

- Type of current for the motor
- Machine data-type plate
- Machine data-type plate

Cleaning and Servicing

Pull the mains plug before any adjustments, maintenance, or repair.

 **Have any work on the device that is not described in this instruction guide performed by a professional. Only use original parts. Allow the device to cool off before any maintenance or cleaning is undertaken. There is a risk of burning!**

Always check the device before using it for obvious defects such as loose, worn, or damaged parts, and correct the positioning of screws or other parts. Exchange the damaged parts.

Cleaning

Do not use any cleaning agents or solvents. Chemical substances can etch the plastic parts of the device. Never clean the device under running water.

- Thoroughly clean the device after every use.
- Clean the ventilation openings and the surface of the device with a soft brush or cloth.
- Remove chips, dust, and dirt with a vacuum cleaner if necessary.
- Lubricate moving parts regularly.
- Do not allow lubricants to come into contact with switches, V-belts, pulleys, and drill lifting arms.

Service information
Please note that the following parts of this product are subject to normal or natural wear and that the following parts are therefore also required for use as consumables.
Wear parts*: Carbon brushes, v-belt, batteries, drill bit
* Not necessarily included in the scope of delivery!

Storage

Store the device and its accessories in a dark, dry, and frost-proof place that is inaccessible to children. The optimum storage temperature is between 5 and 30˚C.
Store the electrical tool in its original packaging. Cover the electrical tool in order to protect it from dust and moisture.
Store the operating manual with the electrical tool.

Disposal and recycling

The equipment is supplied in packaging to prevent it from being damaged in transit. The raw materials in this packaging can be reused or recycled. Never place batteries in your household refuse, in fire, or in water. Batteries should be collected, recycled, or disposed of by environment-friendly means. The equipment and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste. Ask your dealer or your local council.

Old devices must not be disposed of with household waste!

This symbol indicates that this product must not be disposed of together with domestic waste in compliance with the Directive (2012/19/EU) pertaining to waste electrical and electronic equipment (WEEE). This product must be disposed of at a designated collection point. This can occur, for example, by handing it in at an authorized collecting point for the recycling of waste electrical and electronic equipment. Improper handling of waste equipment may have negative consequences for the environment and human health due to potentially hazardous substances that are often contained in electrical and electronic equipment. By properly disposing of this product, you are also contributing to the effective use of natural resources. You can obtain information on collection points for waste equipment from your municipal administration, public waste disposal authority, an authorized body for the disposal of waste electrical and electronic equipment, or your waste disposal company.

Batteries and rechargeable batteries do not belong to household waste!

As the consumer, you are required by law to bring all batteries and rechargeable batteries, regardless of whether they contain harmful substances* or not, to a collection point run by the local authority or to a retailer, so that they can be disposed of in an environmentally friendly manner.
*labeled with: Cd = cadmium, Hg = mercury, Pb = lead

- Remove the batteries from the laser before disposing of the machine and the batteries.

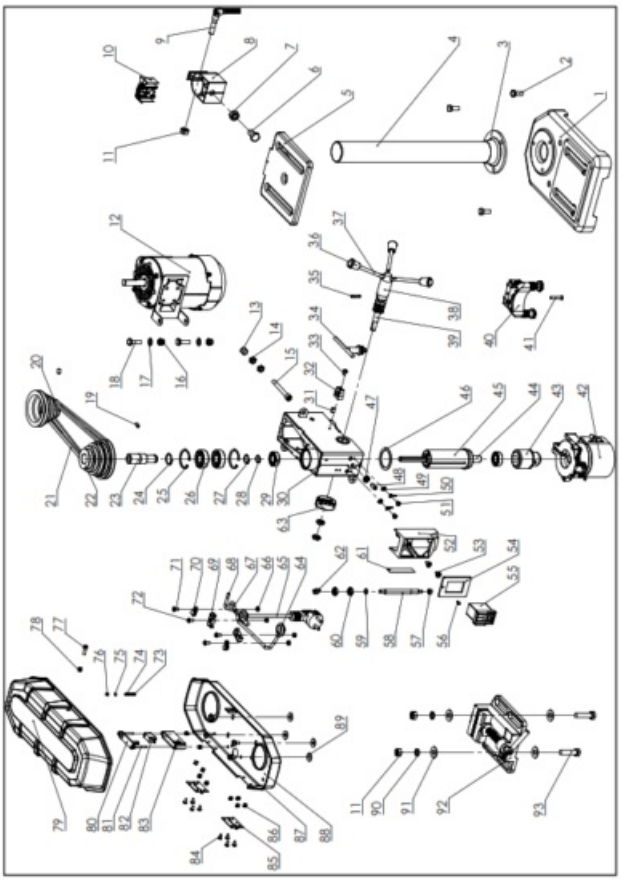
Troubleshooting

Warning:

Turn the switch off and always remove the plug from the power source before troubleshooting.

Trouble	Problem	Remedy
Quill returns too slow or too qui ckly	Spring has improper tension.	Adjust spring tension. See “Quill retur n spring”.
Chuck will not stay attached to the spindle. It will fall off when t ry- ing to install.	Dirt, grease, or oil on the tapered insi de surface of the chuck or on the spin dle’s tapered surface.	Using household detergent, clean the tapered surfaces of the chuck and spi ndle ta remove all dirt, grease, and oil . See Installing the chuck”.
Noisy operation	1 Incorrect belt tension	1. Adjust belt tension. See „Choosing speed and tensioning belt”.
	2. Dry spindle.	2. Duplicate spindle.
	3. Loose spindle pulley	3. Check the tightness of the retaining nut on the pulley, and tighte n it if necessary
	4. Loose motor pulley.	4. Tighten the set screw in the motor pulley
Wood splinters on the undersid e.	No “backup material” behind the work piece.	Use “backup material”. See “Positioni ng table and workpiece”.
Workpiece tom loses from han d.	Not supported or clamped property.	Support the workpiece or clamp it.
Drill bit bums.	1. Incorrect speed.	1. Change speed. See “Choosing spe ed and tensioning belt”.
	2. Chips not coming out of the hole.	2. Retract drill bit frequently to remo ve chips.

	3. Dull drill bit	3. Resharpen drill bit.
	4. Feeding too slowly	4. Feed fast enough ta allow the drill bit to cut.
Drill leads off. hole not round.	1. Hard grain in wood or lengths of cu tting lips and/or angle not equal	1. Resharpen drill bit correctly.
	2. Bent drill bit.	2. Replace the drill bit.
The drill bit binds in the workpi ece.	1. Workpiece pinching drill bit or exce ssive feed pressure.	1. Support workpiece at damp it. See “Positioning table and workpiece”.
	2. Improper belt tension.	2. Adjust belt tension. See “Choosing speed and tensioning belt”.
Excessive drill bit run-out or wo bble.	1. Bent drill bit	1. Use a straight drill bit.
	2. Wom spindle bearings.	2. Replace bearings.
	3. Drill bit not properly installed in the chuck.	3. Install the drill properly. See “Install ing drill bits”.
	4. Chuck is not properly installed.	4. Install chuck properly. See “Installi ng the chuck”.



CE – Declaration of Conformity **Originalkonformitätserklärung**	

hereby declares the following conformity under the EU Directive and standards for the following article

Brand: SCHEPPACH
Article name: DRILL PRESS – DP16VLS
Art. no.: 5906810901

☐ 2014/29/EU	☐ 2004/22/EC	☐ 89/686/EC_96/58/EC	☐ 2000/14/EC_2005/88/EC
☐ 2014/35/EU	☐ 2014/68/EU	☐ 90/396/EC	Annex V
☒ 2014/30/EU	☒ 2011/65/EU*	☐	Annex VI Noise: measured L_{WA} = xx dB(A); guaranteed L_{WA} = xx dB(A) P = xx KW; L/Ø = cm Notified Body: Notified Body No.:
☒ 2006/42/EC			☐ 2010/26/EC
Annex IV Notified Body: Notified Body No.: Certificate No.:			Emission. No:

Standard references:

EN 61029-1 EN 55014-1; EN 55014-2; EN 61000-3-2; EN 61000-3-3; EN 60825-1

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above fulfills the regulations of the directive 2011/65/EU of the European Parliament and Council from 8th June 2011, on the restriction of the use of certain hazardous substances in

electrical and electronic equipment.

Ichenhausen, den 03.07.2018

Unterschrift / Markus Bindhammer / Technical Director

Subject to change without notice

Documents registar: Andreas Mayer
Günzburger Str. 69, D-89335 Ichenhausen

Warranty GB

Apparent defects must be notified within 8 days from the receipt of the goods. Otherwise, the buyerís rights of claim due to such defects are invalidated. We guarantee for our machines in case of proper treatment for the time of the statutory warranty period from delivery in such a way that we replace any machine part free of charge which provably becomes unusable due to faulty material or defects of fabrication within such period of time. With respect to parts not manufactured by us, we only warrant insofar as we are entitled to warranty claims against the upstream suppliers. The costs for the installation of the new parts shall be borne by the buyer. The cancellation of the sale or the reduction of the purchase price as well as any other claims for damages shall be excluded.

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+(49)-08223-4002-58

Documents / Resources

	scheppach DP16VLS Column Drilling Machine [pdf] User Manual DP16VLS, Column Drilling Machine, DP16VLS Column Drilling Machine

References

- scheppach | scheppach