



**Operating Instructions  
Bench-Type Circular Saw**

**POWER  
CRAFT®**



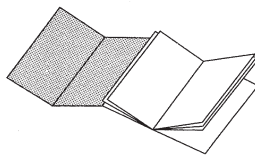
**Art.-Nr.: 43.406.03**



***TS 720/1***

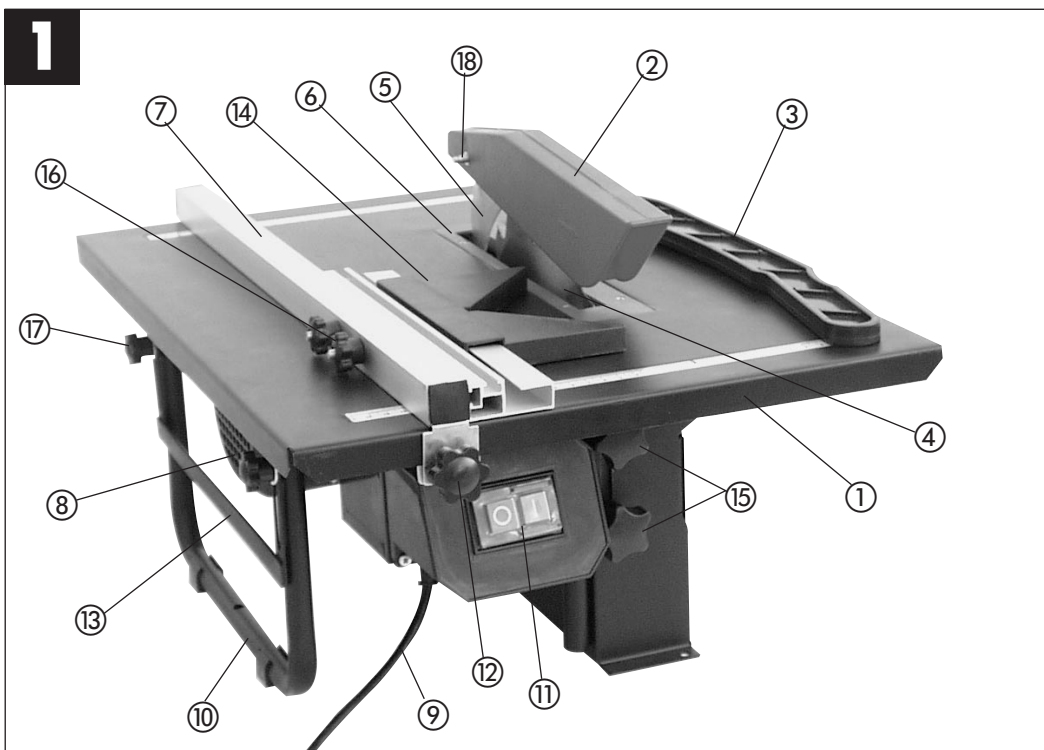


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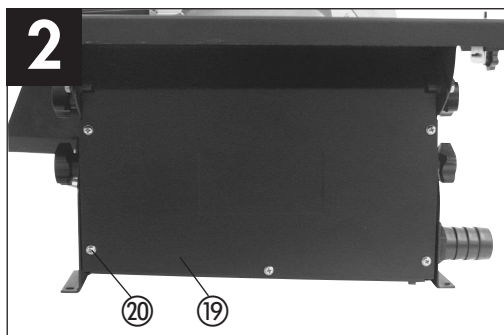


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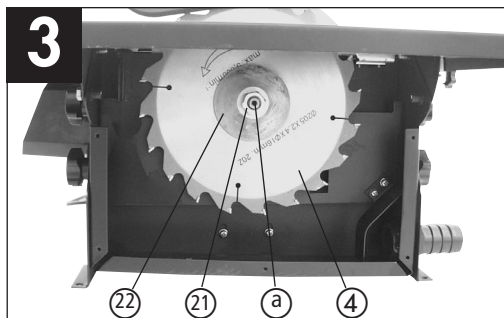
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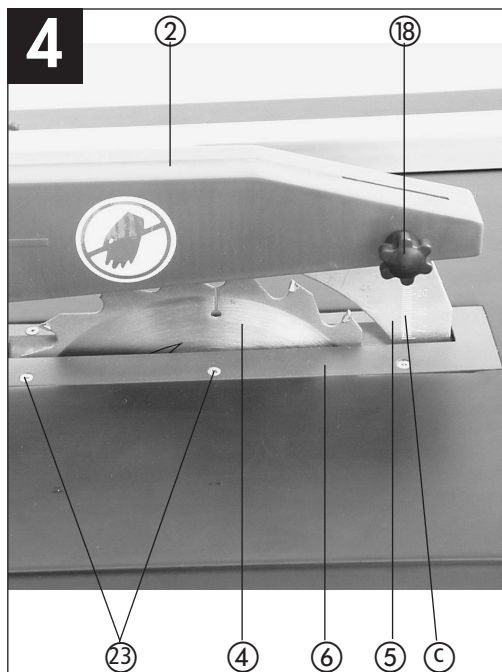
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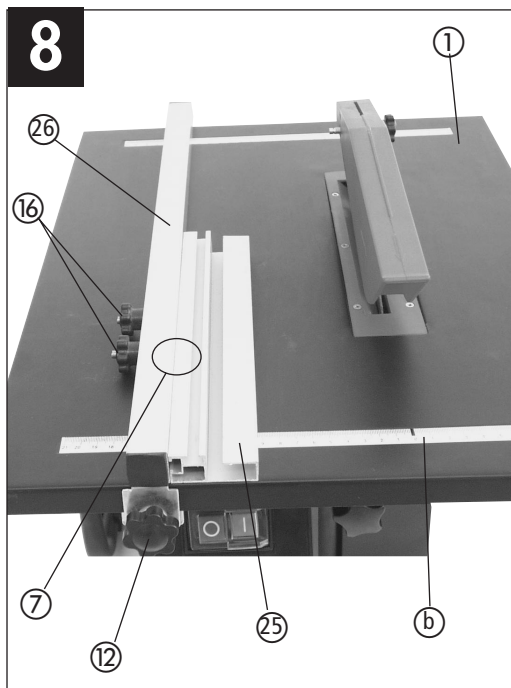
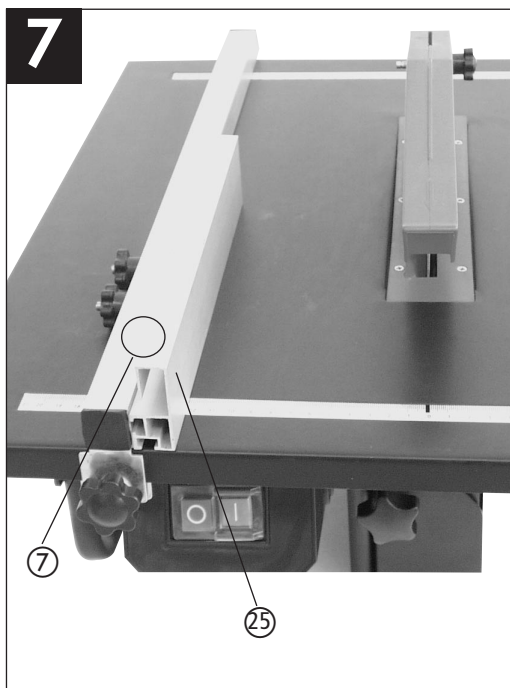
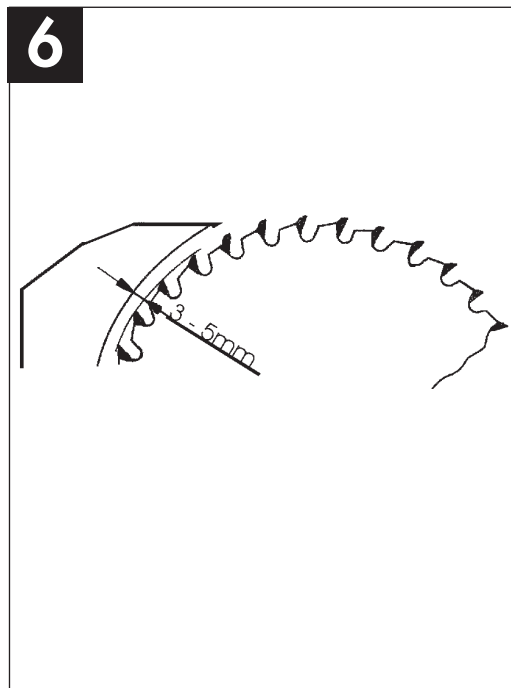
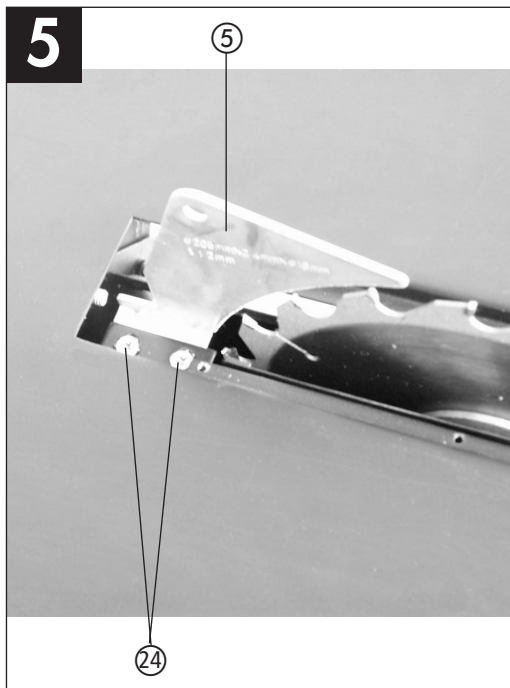


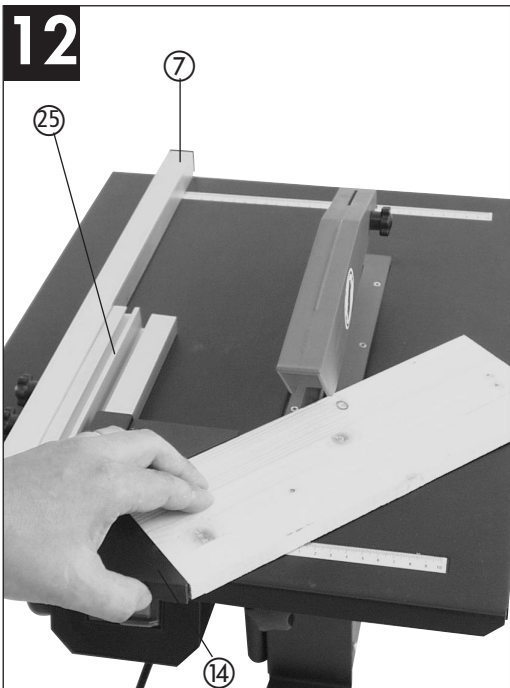
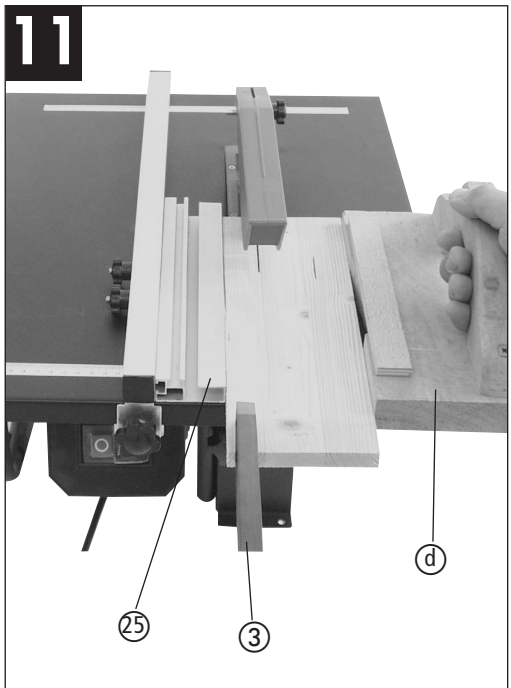
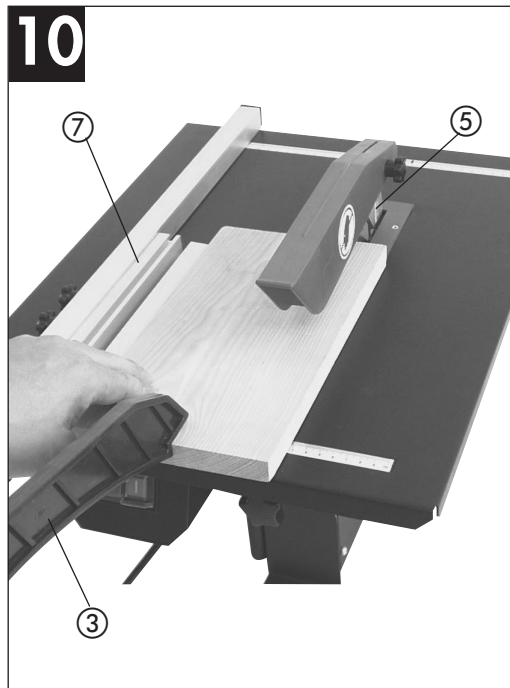
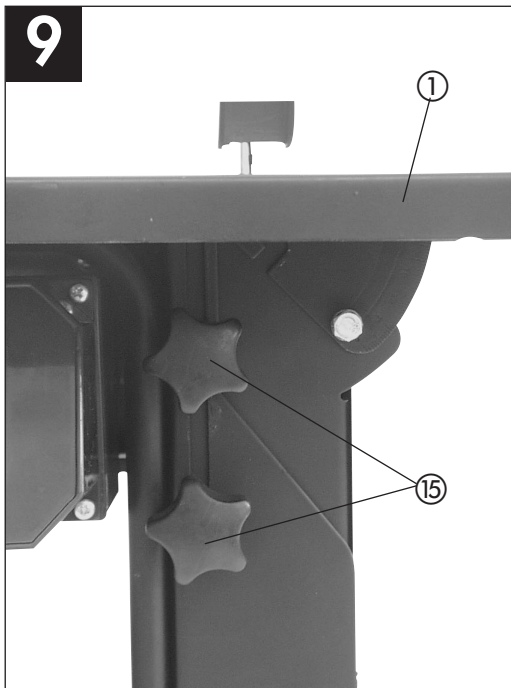
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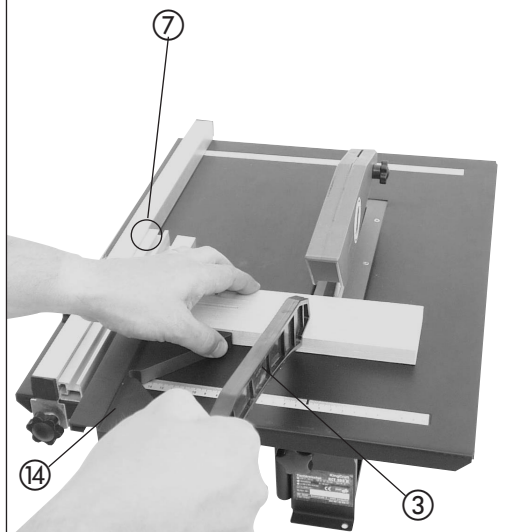
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## Layout (Fig. 1)

- 1 Saw table
- 2 Saw blade guard
- 3 Push stick
- 4 Saw blade
- 5 Splitter
- 6 Table insert
- 7 Parallel stop
- 8 Motor
- 9 Power cable
- 10 Stand
- 11 On/Off switch
- 12 Star-grip screw for parallel stop
- 13 Table support
- 14 Angle stop
- 15 Star-grip screw for height adjustment
- 16 Star-grip screw for the stop rail
- 17 Star-grip screw for the table support
- 18 Star-grip screw for saw blade guard

## 2. Items supplied

- Carbide-tipped saw blade
- Parallel stop
- Angle stop
- Push stick
- Bench-type circular saw

## 3. Proper use

The TS 720/1 bench-type circular saw is designed for the slitting and cross-cutting (only with the angle stop) of all types of timber, commensurate with the machine's size. The machine is not to be used for cutting any type of roundwood.

**The machine is to be used only for its prescribed purpose.**

Any use other than that mentioned is considered to be a case of misuse. The user/operator and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse. The machine is to be operated only with suitable saw blades. It is prohibited to use any type of cutting-off wheel.

To use the machine properly you must also observe the safety regulations, the assembly instructions and the operating instructions to be found in this manual. All persons who use and service the machine have to be acquainted with this manual and must be informed about its potential hazards.

It is also imperative to observe the accident prevention regulations in force in your area.

The same applies for the general rules of occupational health and safety.

The manufacturer shall not be liable for any changes made to the machine nor for any damage resulting from such changes.

Even when the machine is used as prescribed it is still impossible to eliminate certain residual risk factors. The following hazards may arise in connection with the machine's construction and design:

- Contact with the saw blade in the uncovered saw zone.
- Reaching into the running saw blade (cut injuries).
- Kick-back of workpieces and parts of workpieces
- Saw blade fracturing.
- Catapulting of faulty carbide tips from the saw blade.
- Damage to hearing if correct ear-muffs are not worn.
- Harmful emissions of wood dust when the machine is used in closed rooms.

## 4. Important notes

Please read this manual carefully and pay attention to the information provided. Use this manual to familiarize yourself with the machine, its correct use and safety regulations.



### Safety regulations

- Caution! When using electric tools it is imperative to take the following basic safety precautions in order to reduce the risk of electric shock, injury and fire. Read and take note of these instructions before you use this tool.
- Follow all these safety regulations before and while working with the saw.
- Do not lose these safety regulations.
- Avoid body contact with earthed parts.
- When equipment is not being used it should be kept in a dry, closed place out of children's reach.
- You will work better and more safely if you keep your tools sharp and clean. Check the power cable regularly and have it replaced by an authorized specialist at the first sign of any damage.
- Check your extension cables regularly and replace them if damaged.
- When working outdoors, use only extension cables that are approved for outdoor use and which are marked accordingly.

- Concentrate on what you are doing. Take a sensible attitude to your work. Never use the tool when you are tired.
- Never use a tool with a switch that cannot be turned on and off.
- Caution! The use of plug-in tools and accessories other than those intended may put you at risk of injury.
- Always pull the plug out of the power socket before adjusting or servicing the machine.
- Give these safety regulations to all persons who work on the machine.
- Do not use this saw to cut fire wood.
- Do not use this saw to cross-cut roundwood.
- Caution! Hands and fingers may be injured on the rotating saw blade.
- The machine is equipped with a safety circuit-breaker (11) to prevent it starting up again after a voltage drop.
- Before you use the machine for the first time, check that the voltage marked on the rating plate is the same as your mains voltage.
- If you need to use an extension cable, make sure its conductor cross-section is big enough for the saw's power consumption. Minimum cross-section: 1 mm<sup>2</sup>.
- If you use a cable reel, the complete cable has to be pulled off the reel.
- Do not carry the tool by its cable.
- Check the power cable (9). Never use a faulty or damaged power cable.
- Do not use the cable to remove the plug from the socket-outlet. Protect the cable from heat, oil and sharp edges.
- Do not leave the saw in the rain and never use it in damp or wet conditions.
- Provide good lighting.
- Non-slip shoes are recommended when working outdoors.
- Do not saw near flammable liquids or gases.
- Wear suitable work clothes! Loose garments or jewelry may become caught up in the rotating saw blade.
- Wear a hair net if you have long hair.
- Avoid abnormal working postures.
- Operators have to be at least 18 years of age. Trainees of at least 16 years of age are allowed to use the machine under supervision.
- An untidy work area invites accidents.
- Do not allow other persons, especially children, to touch the tool or cable. Keep them out of your work area.
- Keep children away from the machine when it is connected to the power supply.
- Keep your workplace clean of wood scrap and any unnecessary objects.
- Persons working on the machine should not be distracted.
- Note the direction of rotation of the motor and saw blade.
- After you have switched off the motor, never slow down the saw blade (4) by applying pressure to its side.
- Fit only blades (4) which are well sharpened and have no cracks or deformations.
- Use only circular saw blades (4) made of high-alloy high-speed steel (HSS).
- Never dismantle the machine's safety devices (2, 5) or put them out of operation.
- The machine is to be operated only with tools which conform with prEN 847-1: 1966.
- Faulty saw blades (4) have to be replaced immediately.
- Never use saw blades which do not comply with the data specified in this manual.
- It is imperative to make sure that all devices (2, 15) which cover the saw blade are in good working order.
- Caution! It is prohibited to use this saw to make plunge cuts.
- Damaged or faulty safety devices have to be replaced immediately.
- The splitter (5) is an important safety device. Not only does it guide the workpiece, it also prevents the kerf closing behind the blade so that there is no kickback from the workpiece. Note the thickness of the splitter. The splitter should never be thinner than the saw blade body or thicker than the width of its kerf.
- The guard hood (2) has to be lowered over the workpiece for each cut.
- Be sure to use a push stick (3) when slitting narrow workpieces (smaller than 120 mm in width).
- Never cut workpieces which are too small to hold securely in your hand.
- It is imperative for the parallel stop to be clamped on the right-hand side of the blade whenever you cut narrow workpieces to size.
- Always stand to the side of the saw blade when working with the saw.
- Never load the machine so much that it cuts out.
- Always press the workpiece firmly against the saw table (1).
- Make sure that off-cuts do not catch on the saw blade crown. Risk of catapulting!
- All guards and safety devices have to be refitted immediately after completion of any repairs or maintenance.



- It is imperative to observe the manufacturer's safety, operating and maintenance instructions as well as the dimensions quoted in the technical data.
- It is imperative to observe the accident prevention regulations in force in your area as well as all other generally recognized rules of safety.
- Note the information published by your professional associations (VBG 7j).
- Switch on the dust extraction system each time you use the machine.
- Use the saw only with a suitable vacuum extraction system or a standard industrial vacuum cleaner.
- Never use the cable for any purpose other than that for which it is intended!
- Never remove loose splinters, chips or jammed pieces of wood when the saw blade is running.
- To rectify faults or remove jammed pieces of wood, always switch off the machine first. - Pull out the power plug! -
- If the sawing gap is worn, replace the table insert (6). - Pull out the power plug! -
- The bench-type saw has to be connected to a 230 V socket-outlet with earthing contact and minimum fusing of 10 A.
- Never use tools or attachments with insufficient power for the job in hand.
- Never use tools on jobs for which they were not intended!
- Make sure you stand squarely and keep your balance at all times.
- Check the tool for possible damage!
- Each time before re-using the tool, carefully check that the guards or any slightly damaged parts are working as intended.
- Check that the moving parts are in good working order, that they do not jam, and that no parts are damaged. Make sure that all parts are fitted correctly and that all other operating conditions are properly fulfilled.
- Unless otherwise stated in the operating instructions, damaged guards and parts have to be repaired or replaced by an authorized service center.
- Have damaged switches replaced by a customer service workshop.
- This electric tool complies with the pertinent safety regulations. Repairs are to be carried out only by a qualified electrician using original replacement parts or the user may suffer an accident.



**Caution! Risk of injury! Do not reach into the running saw blade.**



**Wear goggles**



**Wear ear-muffs**



**Wear a breathing mask**

## Noise emission values

- The saw's noise is measured in accordance with DIN EN ISO 3744; 11/95, E DIN EN 31201; 6/93, ISO 7960 Annex A; 2/95. The machine may exceed 85 dB(A) at the workplace. In this case, noise protection measures need to be introduced for the user (ear-muffs).

	Cutting	Idling
Sound pressure level LPA	105.0 dB(A)	85.0 dB(A)
Sound power level LWA	114.6 dB(A)	94.6 dB(A)

„The quoted values are emission values and not necessarily reliable workplace values. Although there is a correlation between emission and immission levels it is impossible to draw any certain conclusions as to the need for additional precautions. Factors with a potential influence on the actual immission level at the workplace include the duration of impact, the type of room, and other sources of noise etc., e.g. the number of machines and other neighboring operations. Reliable workplace values may also vary from country to country. With this information the user should at least be able to make a better assessment of the dangers and risks involved.“

## 5. Technical data

Asynchronous motor	230 V 50 Hz
Power rating	720 W S2 30 min
Idle speed $n_0$	2800 rpm
Carbide saw blade	205 x 16 x 2.4 mm
Number of teeth	20
Table size	513 x 400 mm
Cutting height max.	43 mm
Height adjustment	infinite 0 - 43 mm
Connector for dust extractor	dia. 35 mm
Size, complete	513 x 400 x 300 mm
Weight	14 kg

### ● Load factor:

A load factor of S2 30 min (intermittent periodic duty) means that you may operate the motor continuously at its nominal power level (720 W) for no longer than the time stipulated on the specifications label (30 minutes ON period). If you fail to observe this time limit the motor will overheat. During the OFF period the motor will cool again to its starting temperature.

## 6. Before putting the machine into operation

- The machine has to be set up where it can stand firmly, e.g. on a work bench, or it must be bolted to a strong stand.
- All the covers and safety devices have to be properly fitted before the machine is switched on.
- It must be possible for the saw blade to run freely.
- When working with wood that has been processed before, watch out for foreign bodies such as nails or screws etc.
- Before you actuate the On/Off switch, make sure that the saw blade is correctly fitted and that the machine's moving parts run smoothly.
- Before you connect the machine to the power supply, make sure the data on the rating plate is the same as that for your mains.

## 7. Assembly

**Always pull out the power plug before carrying out any maintenance or conversion work.**

### 7.1 Fitting the saw blade (Fig. 2/3)

- Caution! Pull out the power plug.
- Raise the saw table (1) to its top position (see 8.3).
- Remove the chip bin cover (19) by undoing the four fixing screws (20).
- Undo the nut (17) with a size 19 wrench on the nut (21) itself and a second fork wrench (size 8) on the motor shaft (a) to apply counter-pressure.
- Caution! Turn the nut (21) in the direction of rotation of the saw blade (4).
- Take off the outer flange (22) and pull the old saw blade (4) off the inner flange by dropping the blade at an angle.
- Clean the mounting flange.
- Fit the new saw blade in reverse order.
- Caution! Note the direction of rotation (see arrow on the saw blade).

### 7.2 Adjusting the splitter (Fig. 4-6)

- Remove the saw blade guard (2) (see 7.3).
- Take out the table insert (6) (see 7.4).
- Slacken the two hexagon socket-head screws (24).
- Adjust the splitter (5) so that the gap between the saw blade (4) and the splitter (5) equals 3 - 5 mm (see Fig. 6)
- The splitter (5) has to be in line with the saw blade (4) in longitudinal direction.
- Retighten the two screws (24).
- The setting of the splitter has to be checked each time after changing the saw blade.

### 7.3 Fitting the saw blade guard (Fig. 4)

- Mount the saw blade guard (2) on the splitter (5) and align.
- Insert the knurled screw (18) through the hole in the saw blade guard (2) and in the splitter (5) and secure it with the nut.
- To remove the saw blade guard, proceed in reverse order.

### 7.4 Replacing the table insert (Fig. 4)

- Caution! Pull out the power plug.
- Remove the 6 screws (23).
- Take off the saw blade guard (2) (see 7.3).
- Lift the worn table insert (6) up and out.
- Fit a new table insert in reverse order.

## 8.0 Using the saw

### 8.1 On/Off switch (Fig. 1)

- The saw can be switched on by pressing the green pushbutton **A**.
- The red pushbutton **B** has to be pressed to switch off the saw.

### 8.2 Parallel stop

#### 8.2.1 Stop height (Fig. 7/8)

- The parallel stop (7) supplied with the bench-type circular saw has two different guide faces.
- For thick material you must use the stop rail (25) as shown in Fig. 7, for thin material you must use the stop rail as shown in Fig. 8.
- To change the height of the stop, slacken the two knurled screws (16) and pull the stop rail off the carrier rail.
- Turn the stop rail (25) 90° to the left or the right, depending on the required height of the stop, and plug in back on the carrier rail (26).
- Re-tighten the knurled screws (16).

#### 8.2.2. Stop length (Fig. 7/8)

- To prevent the workpiece becoming jammed, always slide the stop rail (25) to the front edge of the table (1) and fix it in place with the two knurled screws (16) (see 8.2.1).

#### 8.2.3 Cutting width (Fig. 8)

- The parallel stop (7) has to be used when making longitudinal cuts in wooden workpieces.
- Slide the parallel stop (7) to the right or left side of the saw table (1).
- The parallel stop (7) can be set to the required dimension with the help of the scale (b) engraved on the saw table (1).
- Tighten the two thumb screws (12) in order to fix the parallel stop (7).

### 8.3 Adjusting the cutting height (Fig. 4/9)

- Slacken the four thumb screws (15).
- The saw table (1) can be raised or lowered to adjust it to the required cutting height.
- The cutting height can be read off the scale (c) of the splitter (5).
- Fix the saw table (1) with the thumb screws (14).
- **Important:** Always tighten the thumb screws securely to prevent the saw table dropping accidentally.

## 9. Sawing operations

**After each new adjustment it is advisable to carry out a trial cut in order to check the set dimensions.**

**After switching on the saw, wait for the blade to reach its maximum speed of rotation before commencing with the cut.**

**Secure long workpieces against falling off at the end of the cut (e.g. with a roller stand etc.)**

**Take extra care when starting the cut!**

### 9.1 Cutting narrow workpieces (width less than 120 mm) (Fig. 7)

- Adjust the parallel stop (7) to the width of workpiece you require.
- Feed in the workpiece with two hands. Always use the push stick (3) in the area of the saw blade (4).  
(A push stick is supplied with the saw!)
- Always push the workpiece through to the end of the splitter (5).
- Caution! With short workpieces, use the push stick from the beginning.

### 9.2 Cutting extremely narrow workpieces (width less than 30 mm) (Fig. 11)

- Adjust the parallel stop (7) to the width of workpiece you require.
- Use the push block (d) to press the workpiece against the stop rail (25) and push the workpiece with the push stick (3) through to the end of the splitter (5).  
There is no push block supplied with the saw!  
(Available from your specialist dealer)

### 9.3 45°-cuts on small workpieces (Fig. 12)

You must always use the parallel stop (7) and the angle stop (14) when making 45° cuts.

- Insert the angle stop (14) in the stop rail (25) of the parallel stop (7).
- Adjust the parallel stop (7) to the required length of the workpiece and clamp securely.
- Insert the workpiece in the angle stop (14).
- Switch on the saw and slide the angle stop (14) together with the workpiece along the stop rail (25) into the blade (4).
- Switch off the saw when the cut is completed.

#### 9.4 Making cross cuts (Fig. 13)

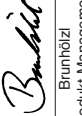





Always use the parallel stop (7) and the angle stop (14) when making cross cuts.

Workpieces must not exceed a maximum length of 160 mm between the parallel stop (7) and the blade (4), and a maximum width of 70 mm.

- Slide the angle stop (14) into the stop rail (25) of the parallel stop (7).
- Adjust the parallel stop (7) to the required length of the workpiece and clamp in place.
- Place the workpiece in front of the angle stop (14).
- Switch on the saw and, with the help of the push stick (3), push the angle stop (14) together with the workpiece along the stop rail (25) into the blade (4).
- Switch off the saw when you have finished the cut.

### 10. Maintenance

- Remove dust and dirt regularly from the machine. Cleaning is best done with compressed air or a rag.
- Never use caustic agents to clean plastic parts.

<b>(D)</b>	<b>EG Konformitätserklärung</b> Der Unterzeichnende erklärt im Namen der Firma	<b>(GB)</b>	<b>EC Declaration of Conformity</b> The Undersigned declares, on behalf of	<b>(F)</b>	<b>Déclaration de Conformité CE</b> Le soussigné déclare, au nom de	<b>(NL)</b>	<b>EC Conformiteitsverklaring</b> De ondertekenaar verklaart in naam van de firma	<b>(E)</b>	<b>Declaracion CE de Conformidad</b> Por la presente, el abajo firmante declara en nombre de la empresa	<b>(P)</b>	<b>Declaração de conformidade CE</b> O abaixo assinado declara em nome da empresa
<b>ISC GmbH · Eschenstraße 6 · D-94405 Landau/Isar</b>											
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<b>Maschine/Produkt</b>	<b>Bench-type circular saw</b>	<b>produced by:</b>	<b>Scie circulaire à table</b>	<b>Tafelcirkelzaag</b>	<b>merk</b>	<b>marca</b>	<b>Sierra circular de mesa</b>	<b>marca</b>	<b>Serra circular de mesa</b>	<b>marca</b>	
<b>CRAFT</b>											
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<b>TÜV Product Service</b>											
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## **GB WARRANTY CERTIFICATE**

The guarantee period begins on the date of sale and is valid for 2 years.

Responsibility is assumed for faulty construction or material or functional defects.

Any necessary replacement parts and necessary repair work are free of charge.

We do not assume responsibility for consequential damage. Your statutory rights are not affected.

Your customer service partner

Service UK:

**GB** Einhell UK Ltd  
Brook House, Brookway  
North Cheshire Trading Estate  
Prenton, Wirral, Cheshire  
**CH 43 3DS**  
Tel. 0151 6084802, Fax 0151 6086339

Technical specification subject to change

wegm. 11/01