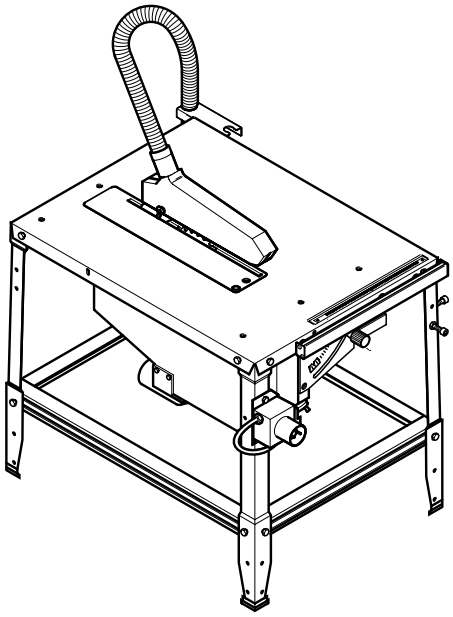
ELEKTRA BECKUM®

Ein Unternehmen der Metabo-Gruppe

English only



TKHS 315 E/P

115 167 0799 / 1201 - 1.2

D DEUTSCH

KONFORMITÄTSERKLÄRUNG

Wir erklären in alleiniger Verantwortlichkeit, daß dieses Produkt mit den folgenden Normen übereinstimmt* gemäß den Bestimmungen der Richtlinien**
EG-Baumusterprüfung *** durchgeführt von ****

F FRANÇAIS

DECLARATION DE CONFORMITE

Nous déclarons, sous notre seule responsabilité, que ce produit est en conformité avec les normes ou documents normatifs suivants* en vertu des dispositions des directives ** Contrôle européen du modèle type *** effectué par ****

IT ITALIANO

DICHIARAZIONE DI CONFORMITÀ

Noi dichiariamo sotto la nostra esclusiva responsabilità che il presente prodotto è conforme alle seguenti norme* in conformità con le disposizioni delle normative ** Omologazione CE *** eseguita da ****

PT PORTUGUÊS

DECLARAÇÃO DE CONFORMIDADE

Declaramos sob nossa responsabilidade que este produto está de acordo com as seguintes normas* de acordo com as directrizes dos regulamentos ** controle de amostra de Construção da CE *** efectuado por ****

FIN SUOMI

VAATIMUKSENMUKAISUUSVAKUUTUS

Vakuutamme, että tämä tuote vastaa seuraavia normeja* on direktiivien määräysten mukainen**
EY-tyyppitarkastustesti *** testin suorittaja: ****

DA DANSK

OVERENSSTEMMELSESATTEST

Hermed erklærer vi på eget ansvar, at dette produkt stemmer overens ed følgende standarder* iht bestemmelserne i direktiverne** EF-typekontrol *** gennemført af ****

EL ΕΛΛΗΝΙΚΑ

ΔΗΛΩΣΗ ΑΝΤΙΣΤΟΙΧΕΙΑΣ

Δηλώνουμε με ιδία ευθύνη ότι το προϊόν αυτό αντιστοιχεί στις ακόλουθες προδιαγραφές*
σύμφωνα με τις διατάξεις των οδηγιών**
Έλεγχος-ΕΟΚ δομικού πρωτοτύπου*** πραγματοποιούμενος από το****

ENG ENGLISH

DECLARATION OF CONFORMITY

We herewith declare in our sole repsonsibility that this product complies with the following standards*
in accordance with the regulations of the undermentioned Directives**
EC type examination *** conducted by ****

NL NEDERLANDS

CONFORMITEITSVERKLARING

Wij verklaren als enige verantwoordelijke, dat dit product in overeenstemming is met de volgende normen*
conform de bepalingen van de richtlijnen** EG-typeonderzoek *** uitgevoerd door ****

ES ESPAÑOL

DECLARACION DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad, que el presente producto cumple con las siguientes normas* de acuerdo a lo dispuesto en las directrices** Homologación de tipo CE *** llevada a cabo por ****

SV SVENSKA

FÖRSÄKRAN OM ÖVERENSSTÄMMELSE

Vi försäkrar på eget ansvar att denna produkt överensstämmer med följande standarder* enligt bestämmelserna i direktiven**
EG-materialprovning *** genomfört av ****

NO NORGE

SAMSVARSERKLÆRING

Vi erklærer under eget ansvar at dette produkt samsvarer med følgende normer* henhold til bestemmelsene i direktiv**
EU-typegodkjennelse *** utstilt av ****

POL POLSKI

OŚWIADCZENIE O ZGODNOŚCI

Oświadczamy z pełną odpowiedzialnością, że niniejszy produkt odpowiada wymogom następujących norm* według ustaleń wytycznych **Kontrola wzorców UE *** przeprowadzone przez ****

HU MAGYAR

MEGEGYEZŐSÉGI NYILATKOZAT

Kizárólagos felelősségünk tudatában ezennel igazoljuk, hogy ez a termék kielégíti az alábbi szabványokban lefektetett követelményeket* megfelel az alábbi irányelvek előírásainak** által végzett vizsgálat szerint megegyezik az alábbi építési mintapéldánnyal *** a ****

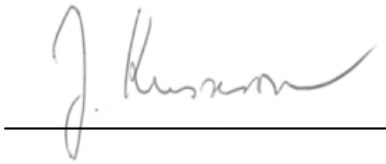
TKHS315-2200 W/ TKHS315-3100 W/ TKHS315-2800D/ TKHS315-4200D

* EN 60204, EN 55014, EN 60555 - 2, EN 60555 - 3, EN 50082 - 1 : 1992

** 89/392/EWG, 73/23 EWG, 89/336/EWG, 93/68/EWG

* BM 9410359

**** TÜV Rheinland Product, Am Grauen Stein
D-51105 Köln



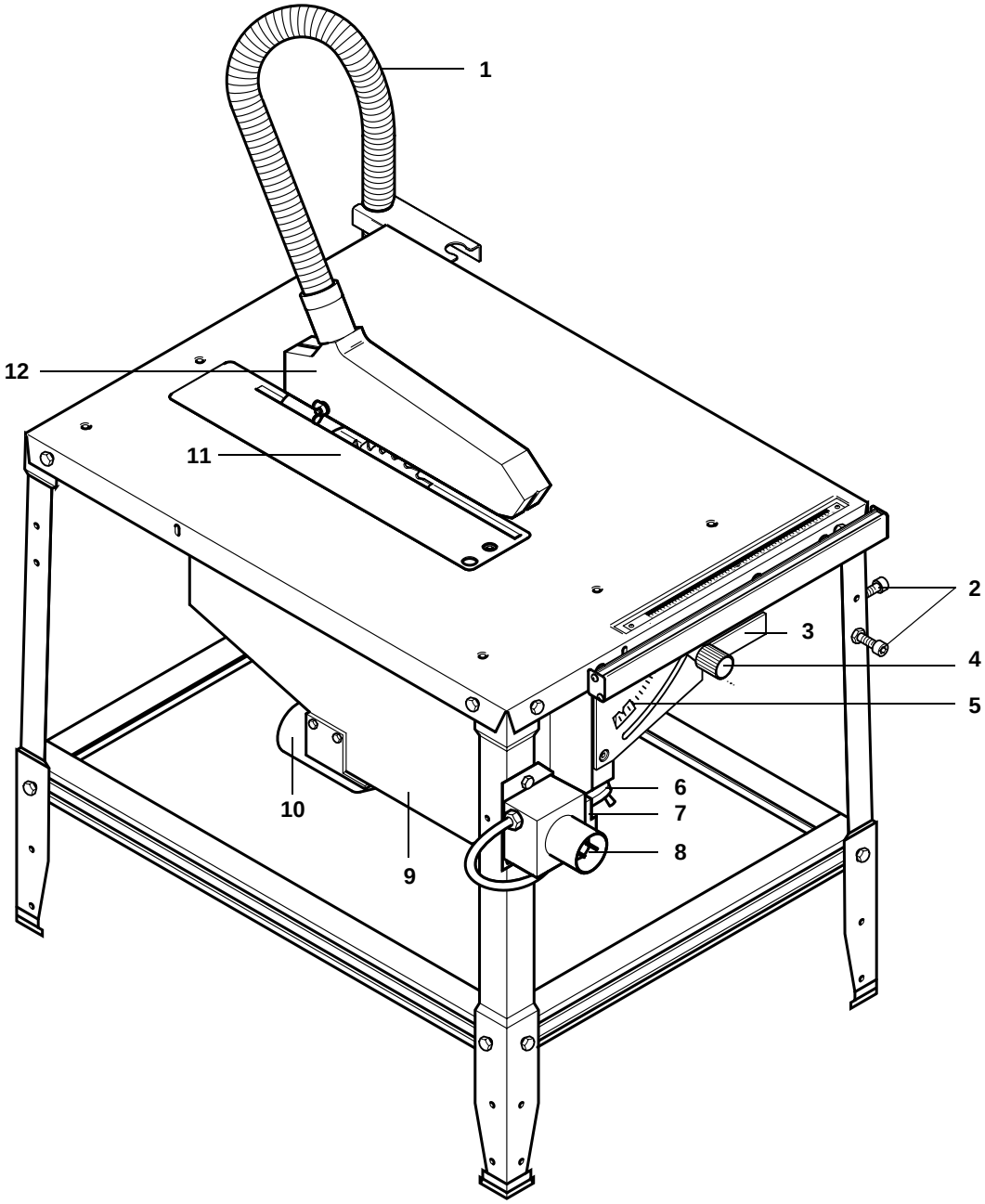
Jürgen Kusserow
Vorstand

CE

ELEKTRA BECKUM AG – Daimlerstraße 1 – 49716 Meppen

1000927/ 00

1. Getting to Know Your Saw



1 Suction hose

2 Accessory storage hook

3 Blade tilt lever

4 Twist handle for locking the blade tilt angle

5 Bevel tilt scale

6 Handwheel for setting the depth of cut

7 ON/OFF switch with emergency stop

8 Mains connection

9 Sliding plate (on the underside)

10 Dust extraction port of chip case assembly

11 Table insert

12 Saw blade guard with dust extraction port

Table of Contents

2. Please Read First!

- Read these instructions before use. Pay special attention to the safety instructions.
- If you notice transport damage while unpacking, notify your supplier immediately. **Do not** operate the machine!
- Dispose of the packing in an environmentally friendly manner. Take to a proper collecting point.
- Keep these instructions for reference on any issues you may be uncertain about.
- If you lend or sell this machine be sure to have the instructions go with it.

3. Safety Instructions

3.1 Specified conditions of use

This machine is intended to rip and crosscut grown timber, faced boards, chip board and wood-core plywood sheets, and similar wood-derived materials.

Do not cut round stock without suitable jigs or fixtures. The rotating saw blade could turn the workpiece.

Any other use is considered to be not as specified and not allowed. The manufacturer is not liable for any damage caused by unspecified use.

Modification of the saw or use of parts not approved by the equipment manufacturer can cause unforeseeable damage!

3.2 General safety instructions

When operating this electric tool observe the following safety instructions, to exclude the risk of personal injury or material damage.
Please also observe the special safety instructions in the respective chapters;
Keep all enclosed documents for future reference.
Observe the statuary accident insurance institution regulations and regulations for the prevention of accidents pertaining to the operation of circular saws, where applicable.

General Hazard!

Keep your work area tidy – a messy work area invites accidents.
Be alert. Know what you are doing. Set out to work with reason. Do not operate electric tool while under the influence of drugs, alcohol or medication.
Consider environmental conditions.
Keep work area well lighted.
Prevent adverse body positions. Ensure firm footing and keep your balance at all times. Use suitable workpiece supports when cutting long stock.
Do not operate electric tool near inflammable liquids or gases.
The circular saw shall only be started and operated by persons familiar with circular saws and who are at any time aware of the dangers associated with the operation of such tool.
Persons under the age of 16 years shall operate this electric tool only in the course of their vocational training, under the supervision of an instructor.
Keep bystanders, particularly children, out of the danger zone. Do not permit other persons to touch the electric tool or power cable while it is running.
Do not overload electric tool – use it only within the performance range it was designed (see "Technical Specifications").

Danger! Risk of electric shock!

Do not expose electric tool to rain.
Do not operate electric tool in damp or wet environment.
Prevent body contact with earthed objects such as radiators, pipes, cooking stoves, refrigerators when operating this electric tool.
Do not use the power cable for purposes it is not intended for.

Risk of personal injury and crushing by moving parts!

Do not operate the electric tool without installed guards.
Always keep sufficient distance to the cutting tool. Use suitable feeding aids, if necessary.
Keep sufficient distance to motor and driven components when operating the electric tool. Ensure electric tool is disconnected from power supply before servicing.
Ensure that when switching on (e.g. after servicing) no tools or loose parts are left on or in the electric tool.
Turn power off when the electric tool is not used.

Cutting hazard, even with the cutting tool at standstill!

Wear gloves when changing cutting tools.

Risk of kickback (workpiece is caught by the saw blade and thrown against the operator):

Always work with a properly set riving knife.
Do not jam workpieces.
Cut thin or thin-walled workpieces only with fine-toothed saw blades. Always use sharp saw blades.
If in doubt, check workpiece for inclusion of foreign matter (e.g. nails or screws).

Drawing-in/trapping hazard!

Ensure that no parts of the body or clothing can get caught and drawn in by rotating components (**no** neckties, **no** loose-fitting clothes; contain long hair with hairnet).

Hazard generated by insufficient personal protection gear!

Wear hearing protection.
Wear safety glasses.
Wear dust mask if work generates dust.
Wear suitable work clothes. When working outdoors wearing of non-slip shoes is recommended.

Risk of injury by inhaling wood dust:

Dust of certain timber species (e.g. oak, beech, ash) can cause cancer when inhaled: use a suitable dust collector (see "Technical Specifications").

Hazard generated by electric tool defects!

Keep electric tool and accessories in good repair. Observe the maintenance instructions.
Check electric tool for possible damage before any use: before operating the electric tool all safety devices, protection

devices or slightly damaged parts must be inspected for proper functioning as specified. Check to see that all moving parts work properly and do not jam. All parts must be correctly installed and meet all conditions necessary for the proper operation of the electric tool.
Damaged protection devices or parts must be repaired or replaced by a qualified specialist. Have damaged switches replaced by a service centre. Do not operate electric tool if the switch can not be turned ON or OFF.
Keep handles free of oil and grease.

3.3 Symbols used throughout these instructions

Danger!
Indicates risk of personal injury or severe material damage.

Risk of electric shock!
Risk of personal injury by electric shock.

Drawing-in/trapping hazard!
Risk of personal injury by body parts or clothing being drawn into the rotating saw blade.

Caution!
Risk of material damage

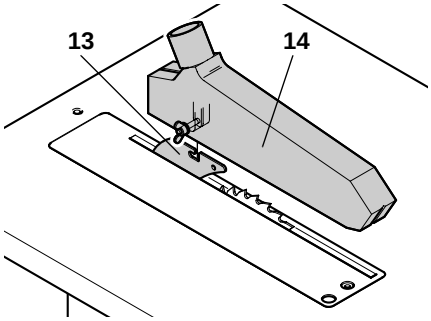
Note:
Supplementary information

3.4 Safety devices

Riving knife

The riving knife **(13)** prevents the workpiece from being caught by the rising teeth of the saw blade and being thrown against the operator.

Always have riving knife installed during operation.



Blade guard

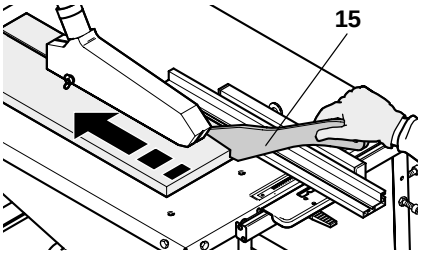
The blade guard **(14)** protects against unintentional contact with the saw blade and from chips flying about.

Always have blade guard installed during operation.

Push stick

The push stick **(15)** serves as an extension of the hand and protects against accidental contact with the saw blade.

Always use push stick if distance between saw blade and rip fence (optional accessory) is less than 120 mm.



4. Special Product Features

- Stepless saw blade tilt setting from 90° to 45°.
- Stepless depth of cut setting to 85 mm.
- An undervoltage relay prevents the machine from starting up when power is restored after a power failure.
- All operating elements are located at the machine's front.
- Robust sheet metal construction with galvanized saw table.

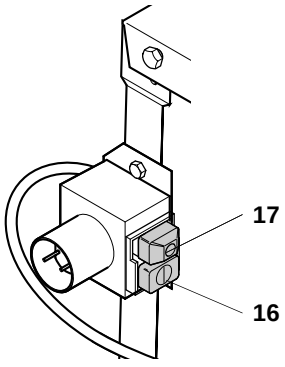
5. Transportation

- Lower saw blade fully.
- Dismount add-on parts (fence, sliding carriage, table extension).
- If possible use original carton for shipping.

6. Operating Elements

ON/OFF switch with emergency stop

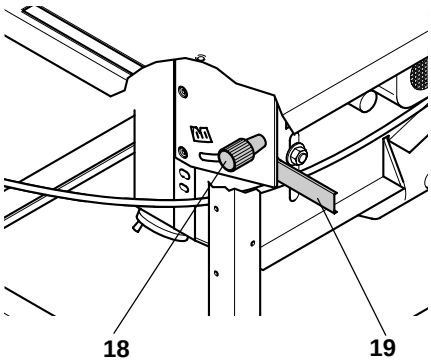
- To start = press green switch button **(17)**.
- To stop = press red switch button **(16)**.



Note:
Upon power failure an undervoltage relay is activated. This prevents the starting of the machine when the power is restored. To restart, the green switch button must be actuated.

Setting device for saw blade tilt

With the swivel arm **(19)** the saw blade is steplessly tilted from 0° to 45°.

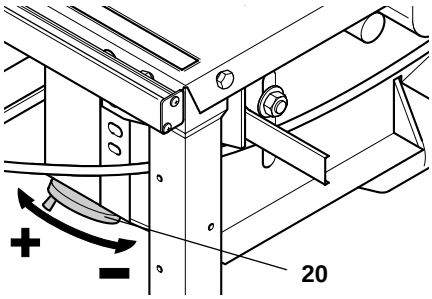


In order for the blade angle not to change during cutting, the blade is locked in position with the turning knob **(18)**.

Note:
To utilise the full setting range of 45°, the depth of cut must be reduced accordingly.

Handwheel for setting the depth of cut

The depth of cut can be adjusted by turning the handwheel **(20)**.



7. Assembly

Danger!
Modifications of the saw or the use of parts not tested and approved by the equipment manufacturer can lead to unforeseen damage during operation!

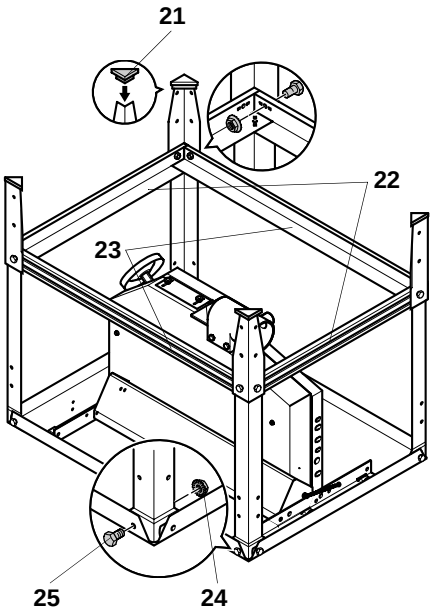
- **Assemble the saw in strict accordance with these instructions.**
- **Use only the parts supplied as standard delivery.**
- **Do not change any parts.**
- **Read instructions for each step before executing it.**

Only if you follow the instructions exactly does the saw conform to the safety regulations and can be safely operated.

Stand assembly

1. Place table panel upside down on a stable, level support. To prevent damage to the table's surface, place a cardboard sheet or similar underneath.

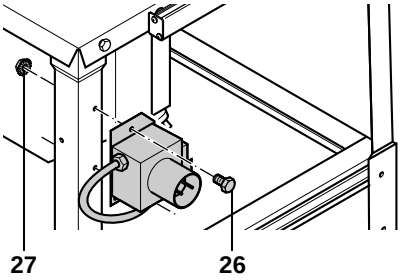
2. Attaching the four leg to the inside of the table panel's corners:
   – fit hexagon head screws **(25)** into holes from the outside;
   – from the inside screw on flange nuts **(24)** – do not tighten fully yet.



3. Fit long stanchions **(23)** between the side legs, short stanchions **(22)** between both front and both rear legs:
   – the wide sides of the stanchions face the table panel;
   – the nibs and recesses must fit into each other;
   – fit hexagon head screws **(25)** into holes from the outside;
   – from the inside screw on flange nuts **(24)** – do not tighten fully yet.
4. Screwing up the stanchions with each other:
   – Insert hexagon head screws **(25)**;
   – screw on flange nuts **(24)** from the opposite side.
5. Tighten all screwed connections
6. Push rubber feet **(21)** on the legs.
7. With the help of a second person stand the saw on its feet.

Switch enclosure installation

- Attach the switch plate with two each hexagon head screws **(26)** and flange nuts **(27)** to the left front leg. The switch buttons must point to the right-hand side.

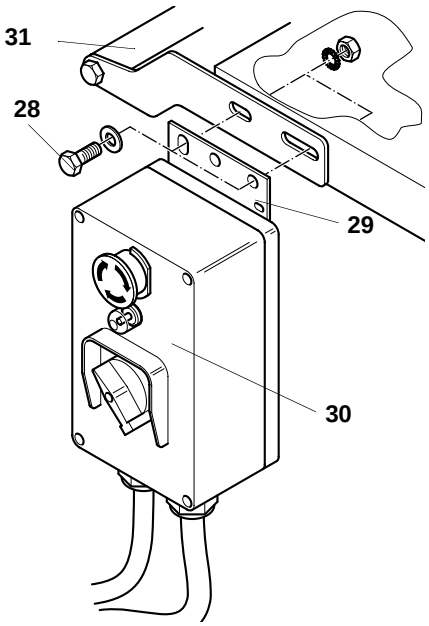


Installation of switch for 110 V 2.2 kW Motor

1. Loosen both hexagon head screws **(28)** on the front edge of the saw table (at the top of the left leg) with a 13 mm spanner. Take hexagon nuts and serrated lock washers off the screws, and remove both screws.
2. Hold switch plate **(29)** (with attached ON/OFF switch **(30)**) to the front edge of the saw table, lining up the switchplate holes with the holes in the table.

Note:
The cable from motor to switch must not run around the outside of the leg.

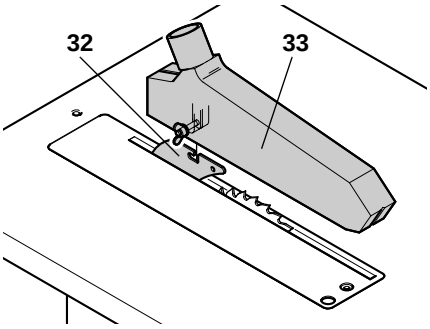
3. Fit a washer on each hexagon head screw, than fit both screws back into the holes, through the switch plate into the table. Secure with serrated lock washers and hexagon nuts, fingertight only.
4. Before tightening fully, the guide bar **(31)** on the left hand side of the saw table needs to be realigned parallel with the sawblade.
5. Finally both hexagon head screws **(28)** are fully tightened.



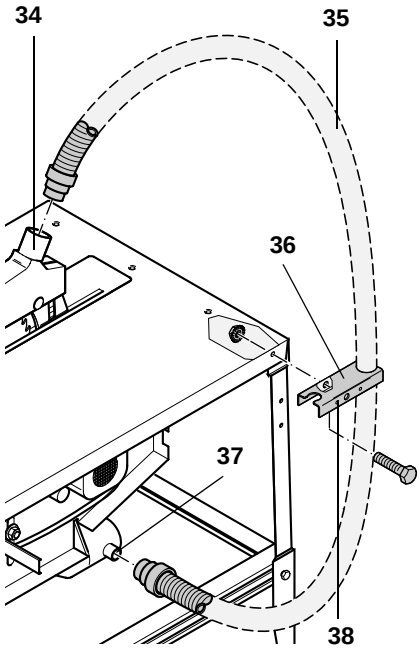
Caution!
Pay attention that the cable does not run over sharp edges and is not bent.

Installing the dust collection gear

1. Install blade guard **(33)** on riving knife **(32)**.
   The underside of the blade guard should be in a horizontal position.



2. Push one end of the suction hose **(35)** on the blade guard's suction port **(34)**.
3. Fit other end of the suction hose to the suction port **(37)** on the chip-case.
4. Attach the hose carrier **(36)**, with the larger opening pointing to the rear, to the saw table. To do so, loosen the screws of the right-hand rear leg and tighten again with the hose carrier in position.
5. Hook the suction hose into the hose carrier.
6. Connect a suitable dust collector to the dust extraction port on the chip case assembly.



Tightening the screwed connections

- Check the saw's screwed connections. Tighten the screwed connections well hand-tight.

7.1 Mains connection

Danger! Electrical Hazard
Operate saw in dry environment only.

Operate saw only on a power source matching the following requirements (see also "Technical Specifications"):

- **mains voltage and system frequency conform to the voltage and frequency shown on the saw's rating label;**
- **fuse protection by a residual current operated device (RCD) of 30 mA sensitivity;**
- **outlets properly installed, earthed and tested;**

Position power supply cable so it does not interfere with the work and is not damaged.

Protect power supply cable from heat, aggressive liquids and sharp edges.

Use only rubber-jacketed extension cables with sufficient lead cross-section (3 x 1.5 mm^2).

Do not pull on power supply cable to unplug.

8. Operation

Risk of injury!
This saw may only be operated by one person at a time. Other persons may stay only at a distance from the saw for the purpose of feeding or removing stock.

Before starting work check to see that the following are in proper working order:

- **power cable and plug;**
- **ON/OFF switch;**
- **riving knife;**
- **blade guard;**
- **push stick.**

Use personal protection gear:

- **dust respirator;**
- **hearing protection;**
- **safety goggles.**

Assume proper operating position:

- **at the front of the saw;**
- **in front of the saw;**
- **to the left of the line of cut.**
- **When working with two persons, the other person must remain at an adequate distance to the saw.**

If the type of work requires, use the following:

- **table extension, if otherwise workpiece would fall off the table after cutting;**
- **sliding carriage;**
- **dust collector.**

Avoid typical operator mistakes:

- **do not attempt to stop the saw blade by pushing the workpiece against its side. Risk of kickback.**
- **Always hold the workpiece down on the table and do not jam it. Risk of kickback.**
- **Never cut several workpieces at the same time – and also no bundles containing several individual pieces. Risk of personal injury if individual pieces are caught by the saw blade uncontrolled.**

Drawing-in/trapping hazard!
Never cut stock to which ropes, cords, strings, cables or wires are attached or which contain such materials.

8.1 Dust collector

Danger!
Dust of certain timber species (e.g. oak and ash) can cause cancer when inhaled: Always use a dust collector when working in enclosed spaces (air speed at the saw's dust collection port ≥ 20 m/s).

The dust extraction ports are located at the chip case assembly and at the saw blade guard.

Observe the dust collector's operating instructions as well!

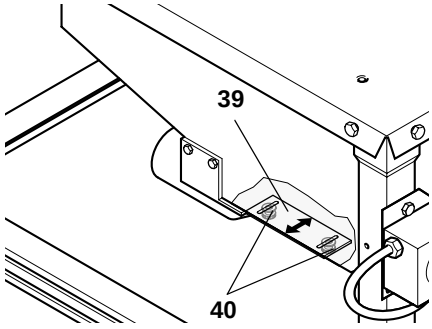
Operation without a dust collector is only possible:

- outdoors;
- for short-term operation (up to max. 30 minutes);
- with dust respirator.

Caution!
If no dust collector is hooked up the sliding plate on the chip case must be opened, otherwise chips and saw dust build up inside the chip case.

To open the sliding plate:

1. Loosen both knurled thumb screws **(40)** on the underside of the chip case slightly.

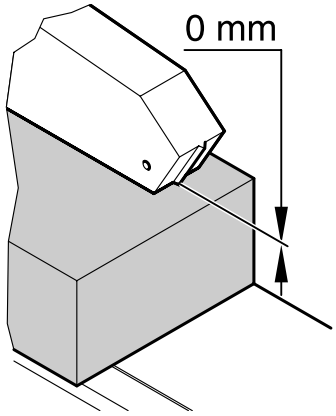


2. Slide sliding plate **(39)** all the way to the side.
3. Tighten the knurled thumb screws.

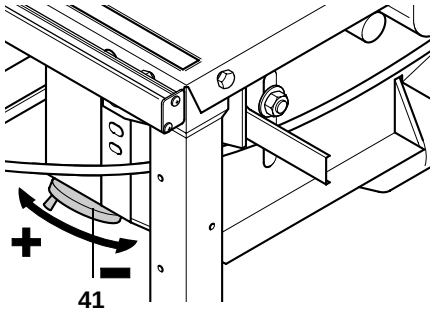
8.2 Setting the depth of cut

Danger!
Parts of the body or objects in the setting range can be caught be the running saw blade! Set the depth of cut only with the saw blade at standstill!

The saw blade's depth of cut needs to be adjusted to the workpiece height: The blade guard must rest with it's front edge on the workpiece.



- Set the depth of cut by turning the handwheel **(41)** on the chip case.



Note:
To compensate for possible play in the blade height setting mechanism, always raise the blade to the desired position.

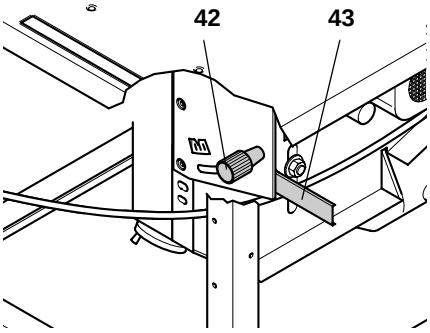
8.3 Setting the saw blade tilt

Danger!
Parts of the body or objects in the setting range can be caught be the running saw blade! Set the depth of cut only with the saw blade at standstill!!

The saw blade's tilt can be steplessly set between 0° and 45°.

Note:
To utilize the full setting range of 45°, the depth of cut must be reduced accordingly.

1. If necessary, lower saw blade to a max. depth of cut of 70 mm.
2. Loosen twist handle **(42)** approx. one turn.



3. Set required blade tilt with the blade tilt lever **(43)**.
4. Lock the set bevel angle by tightening the twist handle again.

9. Care and Maintenance

Danger!
Prior to all servicing:

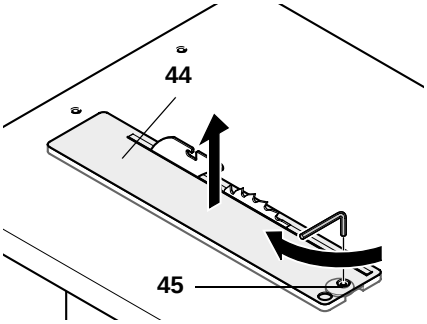
- **switch machine OFF;**
- **unplug power cable;**
- **wait for saw blade to stop.**

- Check that all safety devices are operational again after each service.
- Repair and maintenance work other than described in this section should only be carried out by qualified specialists.

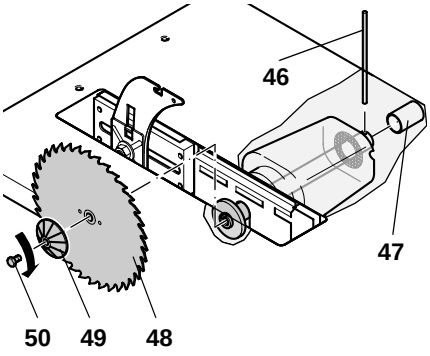
9.1 Saw blade change

Danger!
Directly after cutting the saw blade can be very hot – burning hazard! Let a hot saw blade cool down. Do not clean the saw blade with combustible liquids.
Risk of injury, even with the blade at standstill. Wear gloves when changing blades.
When assembling, the direction of rotation of the saw blade and outer flange must be observed!

1. Raise saw blade fully.
2. Remove blade guard.
3. Turn the flat head screw **(45)** of the table insert extrusion **(44)** clockwise by 1/4 turn and remove the table insert.



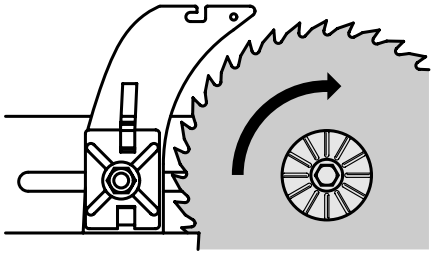
4. To arrest the saw blade remove plastic cap **(47)** and put retention pin **(46)** throught the motor shaft.



5. Loosen arbor bolt **(50)** with spanner (L.H. thread!).
6. Remove outer blade collar **(49)** and saw blade **(48)** from the saw spindle.
7. Clean clamping surfaces of saw spindle and saw blade.

Danger!
Do not use cleaning agents (e.g. to remove resin residue) that could corrode the light metal components of the saw; the stability of the saw would be adversely affected.

8. Put on a fresh saw blade (observe direction of rotation!).



Danger!
Use only suitable saw blades (see "Technical Specifications") – when using unsuitable or damaged blades parts could be explosive-like hurled from it by centrifugal force.

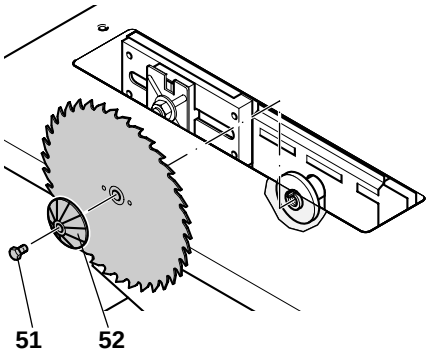
Do not use:

- **saw blades made of high speed steel (HSS);**
- **saw blades with visible damage;**
- **cut-off wheel blades.**

Danger!

- **Mount saw blade only using genuine parts.**
- **Do not use loose-fitting reducing rings; the saw blade could work loose.**
- **Saw blades have to be mounted in such way that they do not wobble or run out of balance and can not work loose during operation.**

9. Put on outer blade collar **(52)** (the inner blade collar's lug must engage in the groove of the outer blade collar).



10. Screw arbor bolt **(51)** back in the saw spindle (L.H. thread!) and tighten it. Use retention pin to hold the saw blade.

Danger!

- **Do not extend arbor bolt tightening wrench.**
- **Do not tighten arbor bolt by hitting the wrench.**
- **After tightening the arbour bolt do not forget to remove the retention pin!**

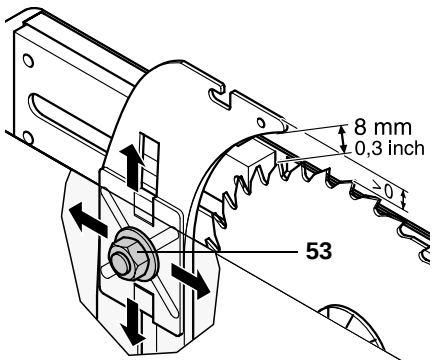
Riving knife adjustment.

Danger!
The riving knife is one of the safety devices and has to be correctly installed for a safe operation:

In order to match the riving knife exactly with the saw blade, its position can be adjusted in two planes:

- in the distance to the saw blade;
- in its lateral alignment.

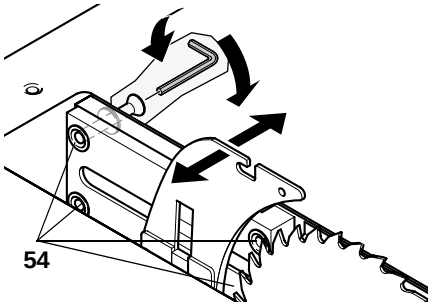
Distance to the saw blade:
The distance between the saw blade's peripheral edge and the riving knife shall be between 3...8 mm.
The riving knife must project at least the same distance over the saw table as the saw blade.



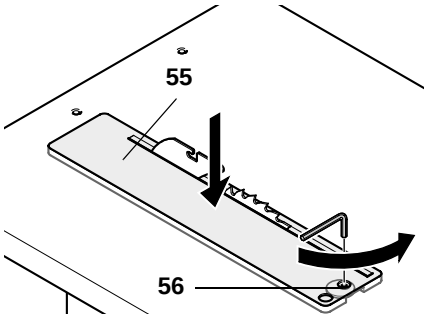
1. If necessary, loosen the Keps nut **(53)** on the riving knife one turn.
2. Adjust distance of the riving knife to the saw blade.
3. Tighten the Keps nut.

Lateral alignment:
riving knife and saw blade must be perfectly in line.

- turning the four hexagon socket head cap screws **(54)** on the motor carrier unit below the saw table clockwise
  = riving knife is moved to the right.
- turning the four hexagon socket head cap screws **(54)** on the motor carrier unit below the saw table counter-clockwise
  = riving knife is moved to the left.



4. Fit table insert extrusion **(55)** flush into the saw table.



5. Turn the countersunk screw **(56)** counter-clockwise against the stop.

9.2 Saw storage

Danger!
Store saw so that

- **it can not be started by unauthorized persons, and**
- **nobody can get injured.**

Caution!
Do not store saw unprotected outdoors or in damp environment.

9.3 Maintenance

Before switching on

Visual check if distance saw blade – riving knife is 3...8 mm.

Visual check of power cable and power cable plug for damage; if necessary have damaged parts replaced by a qualified electrician.

Monthly (if used daily)

remove saw dust and chips with vacuum or brush; apply light coat of oil to guide elements:

- threaded rod and guide rods of blade rise and fall mechanismn:
- swivel segments.

Every 300 hours of operation

Check all screwed joints, retighten if necessary.

10. Tips and Tricks

- Before cutting a workpiece to size make trial cuts on pieces of scrap.
- Always place a workpiece on the saw table in such way that it can not tilt or rock (e.g. always place a curved board on the table with the convex side up).
- When working long stock use suitable supports, such as table rear or side extensions (optional accessories).
- To simplify repetitive cut-off work use a stock stop (optional accessory).
- Keep surfaces of rotating table and saw base clean – in particular, remove resin residue with a suitable cleaning and maintenance spray (optional accessory).

11. Available Accessories

For special tasks the following accessories are available at your specialized dealer – see back cover for illustrations:

A Mitre Fence
For installation on the left-hand side of the saw table. With the mitre fence mitre cuts from 90° to 45° are possible.

B Rip Fence
Attaches to the front of the saw table. The fence extrusion can be used with either the high or low guide edge.

C Table Rear Extension
Attaches to the rear of the saw table. Provides sufficient support when sawing long stock.

D Table Side Extension
For installation on the right-hand side of the saw table. With foldable legs.

E Wheel Set
Facilitates relocation in the shop.

F Roller/Ball Transfer Stand
For accurate guiding of long stock. Can be used with either swivel bearing or roller bearing attachment.

G Sliding Carriage
For convenient guiding of long stock.

H Cleaning Spray
For removing resin residue and protection of metal surfaces.

I Suction Adapter
To connect a shop vacuum to the dust collection attachment.

J Saw Blade KV 56 ∅315
For rip and cross cuts in grown timber and particle board.

K Saw Blade KV 80 ∅315
For rip and cross cuts in grown timber, particle board and panels.

L Saw Blade UW 48 ∅315
For rip and cross cuts in panels; plastic, aluminium and copper extrusion, high-grade veneered sheets.

12. Repairs

Danger!
Repairs to electric tools must be carried out by qualified electricians only!

Electric tools in need of repair can be sent to the service centre of your country. Refer to the spare parts list for the address.

Please attach a description of the fault to the electric tool.

13. Environmetal Protection

The saw's packaging can be 100 % recycled.

Worn out electric tools and accessories contain considerable amounts of valuable raw and plastic materials, which can be recycled.

These instructions are printed on chlorine-free bleached paper.

14. Trouble Shooting

Danger!
Before carrying out any fault service or maintenance work always:

1. **switch machine OFF;**
2. **unplug power cable;**
3. **wait for saw blade to come to standstill.**

Check that all safety devices are operational again after each fault service.

Motor does not run

Undervoltage relay tripped by power failure:

- switch on again.

No mains voltage:

- check cables, plug, outlet and mains fuse.

Motor overheated, e.g. by a blunt saw blade or chip build-up in the chip case:

- eliminate cause for overheating, wait for a few minutes, then start saw again.

Motor supply voltage too low:

- use a shorter extension cable or extension cable with larger lead cross section ($\geq$ 1.5 mm^2).
- Have power supply checked by a qualified electrician.

Loss of cutting performance

Saw blade blunt (possibly tempering marks on blade body):

- replace saw blade (see section "Maintenance").

Chip build-up in the chip case

No dust collector or one of insufficient suction capacity connected:

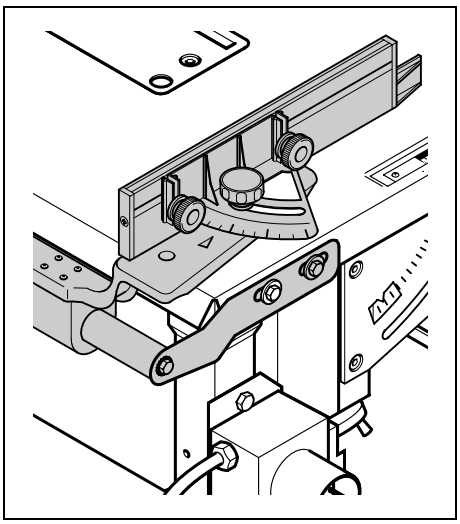
- Connect dust collector or
- increase suction capacity (air speed $\geq$ 20 m/sec at chip ejection tube).

Sliding plate of chip case closed:

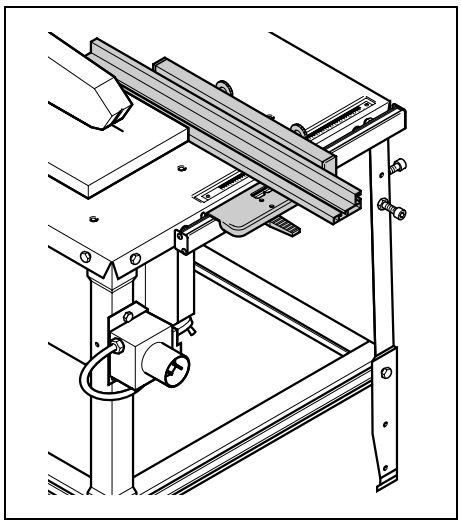
- Open sliding plate

15. Technical Specifications

		TKHS 315 E/P 2200 WNB	TKHS 315 E/P 2200 W	TKHS 315 E/P 3100 W	TKHS 315 E/P 2800 D	TKHS 315 E/P 4200 D
Voltage		110 V / 1~50 Hz	230 V / 1~50 Hz	230 V / 1~50 Hz	400 V / 3~50 Hz	400 V / 3~50 Hz
Nominal current	A	23.0	10.6	14.0	4.7	7.5
Fuse protection min.	A	1 - 25 (time-lag)	1 - 16 (time-lag)	1 - 16 (time-lag)	3 - 16 (time-lag)	3 - 16 (time-lag)
Degree of protection		IP 54	IP 54	IP 54	IP 54	IP 54
Motor speed	min^{-1}	2700	2800	2800	2800	2800
Motor capacity input capacity P_1	kW	2.5 S6 40%	2.2 S6 40%	3.1 S6 40%	2.8 S6 40%	4.2 S6 40%
Motor capacity power output P_2	kW	1.6 S1 100%	1.5 S1 100%	2.0 S1 100%	1.8 S1 100%	2.0 S1 100%
Saw blade cutting speed	m/s	45	47	47	47	47
Saw blade diameter (outer)	mm	315	315	315	315	315
Arbor bore	mm	30	30	30	30	30
Depth of cut						
with saw blade vertical	mm	0 ... 85	0 ... 85	0 ... 85	0 ... 85	0 ... 85
saw blade at 45° bevel tilt	mm	0 ... 53	0 ... 53	0 ... 53	0 ... 53	0 ... 53
Dimensions length saw table	mm	800	800	800	800	800
width saw table	mm	600	600	600	600	600
height (saw table)	mm	850	850	850	850	850
height (overall)	mm	1150	1150	1150	1150	1150
Weight complete approx.	kg	65,0	65,0	66,0	67,0	68,0
Noise emission values according to DIN 45 635						
no-load	dB (A)	74.8	74.8	74.8	74.8	74.8
under load	dB (A)	90.2	90.2	90.2	90.2	90.2



A



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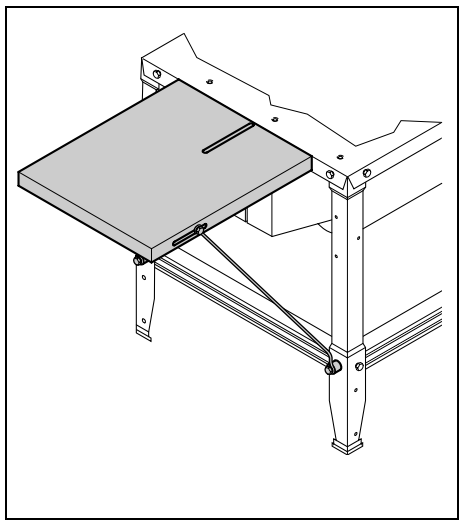

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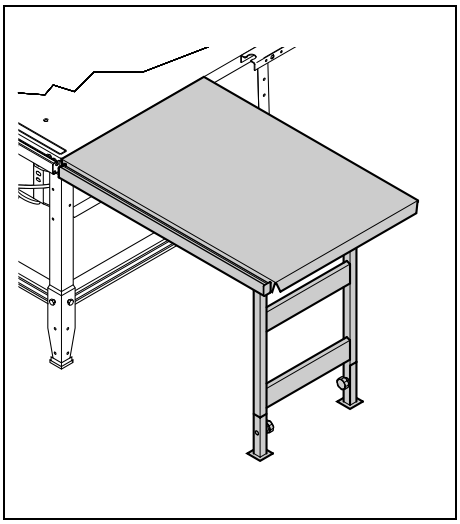

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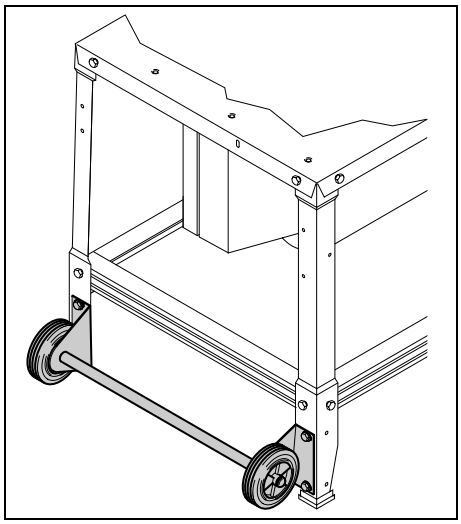

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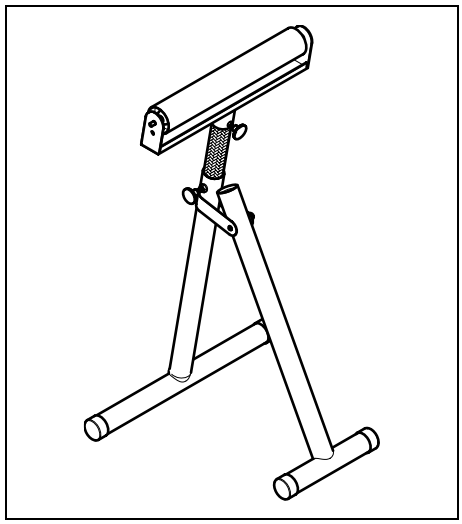

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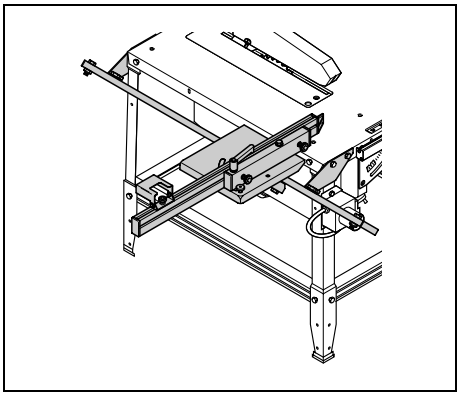

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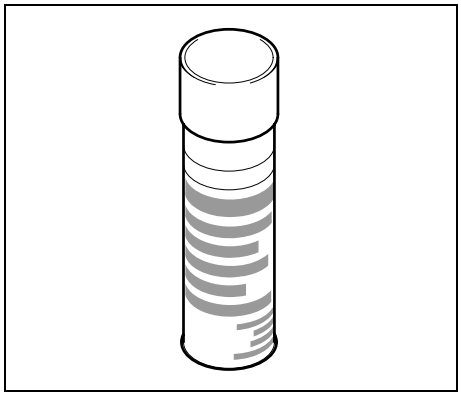
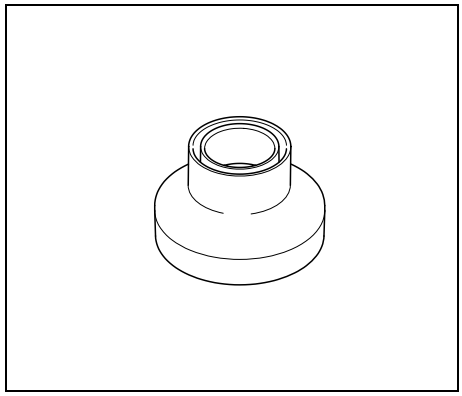


H **091 001 8691**



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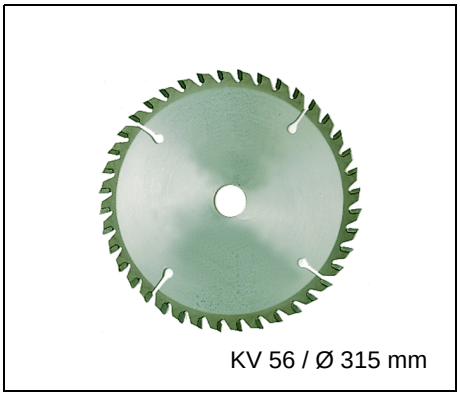

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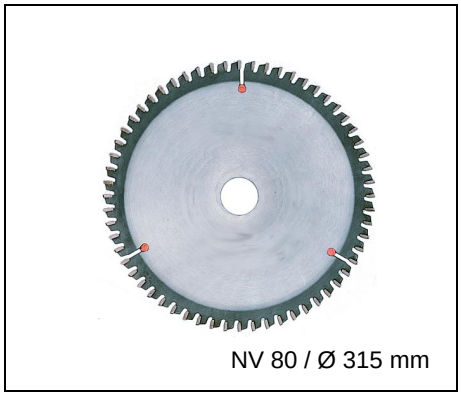

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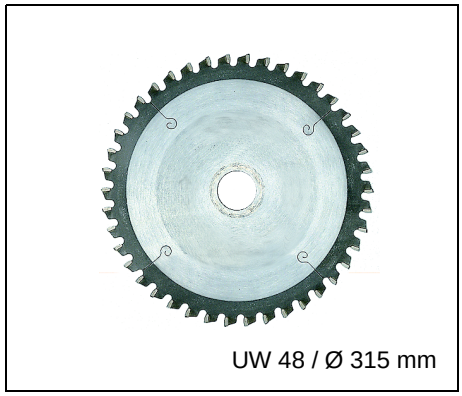

L **091 001 2282**