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Originalfassung

DE BETRIEBSANLEITUNG

FORMATKREISSÄGE

Übersetzung / Translation

EN USER MANUAL

PANEL SAW

ES MANUAL DE INSTRUCCIONES

SIERRA DE MESA

FR MODE D'EMPLOI

SCIE CIRCULAIRE À TABLE

HU HASZNÁLATI UTASÍTÁS

ASZTALI KÖRFŰRÉSZ

CZ NÁVOD K POUŽITÍ

STOLNÍ PILA

PL INSTRUKCJA OBSŁUGI

TARCZÓWKA UNIWERSALNA

HR UPUTA ZA UPORABU

STOLNA KRUŽNA PILA



ZI-FKS315

EAN: 9120039238371





11 PREFACE (EN)

Dear Customer!

This manual contains information and important instructions for the installation and correct use of the panel saw ZI-FKS315.

Following the usual commercial name of the device (see cover) is substituted in this manual with the name "machine".

This manual is part of the product and shall not be stored separately from the product. Save it for later reference and if you let other people use the product, add this instruction manual to the product.



Please read and obey the security instructions!

Before first use read this manual carefully. It eases the correct use of the product and prevents misunderstanding and damages of product and the user's health.

Due to constant advancements in product design, construction pictures and content may diverse slightly. However, if you discover any errors, inform us please.
Technical specifications are subject to changes!

Please check the product contents immediately after receipt for any eventual transport damage or missing parts.

Claims from transport damage or missing parts must be placed immediately after initial product receipt and unpacking before putting the product into operation.

Please understand that later claims cannot be accepted anymore.

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12 TECHNIC

12.1 Components (Fig. 1 and 2)

1	Saw table
2	Saw blade guard
3	Sliding table
4	Saw blade
5	Splitter
6	Longitudinal fence
7	Cross fence
8	Cutting depth adjustment
9	Angle setting
11	ON/OFF switch
12	Clamping screw
13	Extractor hose
14	Dust collector plug
15	Wheels
16	Handles
17	Chip box
18	Legs
19	Table lock
23	Mounting
25	Rubber feet
28	Hook for tool
29	Mounting for extractor hose

12.2 Delivery content

1	Stable saw table made of high-quality aluminium profile
2	Stand with wheels
3	Precise sliding table
4	Aluminium longitudinal and cross fence
5	Saw blade Ø315 mm
6	User manual



12.3 Technical details

Voltage	230 V/50 Hz
Engine power	2 kW
Engine speed	2800 min ⁻¹
Table size	800x350 mm
Sliding table size	1000x300 mm
Dust collector plug	Ø100 / Ø35 mm
Saw blade	Ø315xØ30x3 mm
Throat	600 mm
Max. cutting height (90°)	73 mm
Max. cutting height (45°)	49 mm
Sound pressure level	96,2 dB(A)
Sound power level	103 dB(A)
Dimensions	1000x650x850 mm
Packing size	1110x740x410 mm
weight (net/gross)	65,5/70 kg



13 SAFETY

13.1 Intended Use

The machine must only be used for its intended purpose! Any other use is deemed to be a case of misuse.

To use the machine properly you must also observe and follow all safety regulations, the assembly instructions, operating and maintenance instructions lay down in this manual.

All people who use and service the machine have to be acquainted with this manual and must be informed about the machine's 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 machine is used for:

Cutting of wood and wood like materials

Any manipulation of the machine or its parts is a misuse, in this case ZIPPER - MASCHINEN and its sales partners cannot be made liable for any direct or indirect damage.



WARNING

- **Use only saw blades allowable for this machine (EN 847-1)!**
- **Never use damaged saw blades!**
- **Never use the machine with defective or without mounted guard**
- **The removal or modification of the safety components may result in damage to equipment and serious injury!**

HIGHEST RISK OF INJURY!

Ambient conditions:

The machine may be operated:

humidity	max. 70%
temperature	+5°C to +40°C (+41°F to +104°F)

The machine shall not be operated outdoors or in wet or damp areas.

The machine shall not be operated in areas exposed to increased fire or explosion hazard.

Prohibited use:

- The operation of the machine outside the stated technical limits described in this manual is forbidden.
- The operation of the machine without provided protective devices is prohibited
- The use of the machine not according with the required dimensions is forbidden.
- The use of the machine not being suitable for the use of the machine and not being certified is forbidden.
- Any manipulation of the machine and parts is forbidden.
- The unattended operation on the machine during the working process is forbidden!
- It is not allowed to leave the immediate work area during the work is being performed!



13.2 Security instructions

Missing or non-readable security stickers have to be replaced immediately!

The locally applicable laws and regulations may specify the minimum age of the operator and limit the use of this machine!

To avoid malfunction, machine defects and injuries, read the following security instructions!



- **Keep your work area dry and tidy! An untidy work area may cause accidents. Avoid slippery floor!**



- **Make sure the work area is lighted sufficiently!**



- **Work only in a well ventilated area!**



- **Do not overload the machine!**



- **Avoid abnormal working postures! Make sure you stand squarely and keep balance at all times.**



- **Keep away from the running saw blade!**



- **Always stay focused when working. Reduce distortion sources in your working environment. The operation of the machine when being tired, as well as under the influence of alcohol, drugs or concentration influencing medicaments is forbidden.**



- **Only one person shall operate the machine**



- **The machine must be operated only by trained persons (knowledge and understanding of this manual), which have no limitations of motor skills compared with conventional workers.**



- **Make your workshop childproof!**



- **Make sure there is nobody present in the dangerous area. The minimum safety distance is 2m**



- **Wear suitable work clothes! Do not wear loose clothing or jewelry as they might be caught and cause severe accidents!**



- **Wear a hair net if you have long hair!**



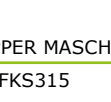
- **Loose objects can become entangled and cause serious injuries!**



- **Use personal safety equipment: ear protectors, safety goggles, work wear, safety gloves (EN 388, class 3111) dust mask when working with or on the machine.**



- **Operation with gloves forbidden!**



- **Gloves may only used at maintenance work and changing the saw blade**



- **Never leave the machine running unattended! Before leaving the working area switch the machine off and wait until the machine stops Die laufende Maschine darf nie unbeaufsichtigt sein!**

- **Always disconnect the machine prior to any actions performed at the machine.**

- **Avoid unintentional starting**

- **Do not use the machine with damaged switch**

- **The plug of an electrical tool must strictly correspond to the socket. Do not use any adapters together with earthed electric tools**

- **Each time you work with an electrically operated machine, caution is advised! There is a risk of electric shock, fire, cutting injury;**

- **Protect the machine from dampness (causing a short circuit)!**

- **Use power tools and machines never in the vicinity of flammable liquids and gases (danger of explosion)!**

- **Check the cable regularly for damage**

- **Do not use the cable to carry the machine or to fix the work piece**

- **Protect the cable from heat, oil and sharp edges**



13.3 Remaining risks



WARNING

It is important to ensure that each machine has remaining risks. In the execution of all work (even the simplest) greatest attention is required. A safe working depends on you!

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

- Risk of injury to the hands / fingers by the rotating saw blade during operation.
- Risk of injury due to sharp edges of the workpiece, especially in non-fixed with a suitable tool / device workpiece
- Risk of injury: hair and loose clothing, etc. can be captured and wound up! Safety regulations must be observed with regard to clothing.
- Risk of injury due to contacting with live electrical components.
- Risk of injury due to dust emissions, treated with harmful agents workpieces
- Risk of injury to the eye by flying debris, even with safety goggles.
- Risk of injury due to kickback:
Kickback is a sudden reaction to a jamming, grinding or staggered blade. This causes the ejection of the workpiece to the direction of the operator.

These risk factors can be minimized through obeying all security and operation instructions, proper machine maintenance, proficient and appropriate operation by persons with technical knowledge and experience.



NOTICE

Emergency procedure

A first aid kit in accordance with should always be readily available for a possible accident. Initiate the violation in accordance with the necessary first aid measures. When requesting support, provide the following details:

1. Place of accident	2. Type of accident
3. Number of injured people	4. Injury type(s)



14 ASSEMBLY

Please check the product contents immediately after receipt for any eventual transport damage or missing parts. Claims from transport damage or missing parts must be placed immediately after initial machine receipt and unpacking before putting the machine into operation. Please understand that later claims cannot be accepted anymore.

14.1 Assembly

14.1.1 Setting up the machine (Fig. 3-8)

Place the table saw with the table touching the floor on a flat floor. Fix the four legs **18** in the inside of the main body with four screws (SW13) for every leg (Fig. 3). When you insert the legs you have to look that they are exactly in the related curbs. Mount the four rubber feet **25** on the legs (Fig. 8). Fix the wheels **15** on the legs at the inside with two screws for every leg. The four spacers **26** must be inserted between the legs and the angle bracket **22** (Fig. 4). When assembling, make sure that the rounded side of the angle bracket faces the bottom of the machine. Turn the saw upside down and place it on the floor. Now insert the sliding table **3** carefully into the slide ways **24** and push the sliding table to the point where the locking hook latches **10** (Fig. 5) home. Now screw the mount for the extractor hose **29** and the tool hook **28** on the main body of the machine **1** (Fig. 6, 7).

14.1.2 Fitting and removing off the saw blade guard (Fig. 9)

Mount the blade guard **2** on the splitter **5**, so that the screw **37** fits through the hole **45**. Don't tighten the screw too tight - the saw blade guard has to be able to be moved freely. Fit the extractor hole **13** on the extractor adapter **14** and the extractor socket of the blade guard **2**.

Important: The blade guard has to be lowered over the work piece before cutting.

14.1.3 Dismantling the sliding table and opening the chip box (Fig. 12, 13)

Pull the sliding table **3** back till you can see the locking hook **10**. Press down on the locking hook **10** with one hand and at the same time use the other hand to pull the sliding table forward and out of the guide **24** (Fig. 12). Now remove the two screws **b** (Fig. 13) and flip open the chip box.

Tip: The screws are removed easier if there will be adjusted an angle of about 45°. For the fitting you have to do these steps backwards.

14.1.4 Mounting the table extension

Mount the table extension like shown on the below pictures.






15 OPERATION

Device to be operated in a perfect state only. Inspect the device visually every time it is to be used. Check in particular the safety equipment, electrical controls, electric cables and screwed connection for damage and if tightened properly. Replace any damaged parts before operating the device.

15.1 Operation instructions

	WARNING	
	Perform all machine settings with the machine being disconnected from the power supply!	

	NOTICE
	<ul style="list-style-type: none">• Operating only with started dust collector!• Never start the machine when the workpiece is pressed to the saw blade!• Before starting the machine check if the saw blade is tightened• Always adapt cutting speed to the respective working• Use the push stick to avoid the risk of contact with the saw blade• Slide the workpiece evenly, without relapses and without retake it until the end of cutting.

15.2 Adjustments for starting up

15.2.1 Setting the splitter (Fig. 14, 15)

Set the blade **4** to its maximum cutting depth, move it to its 0° position and lock it (see 2.6.2 and 2.6.3) Remove the saw blade guard (see 2.5.3). Remove the sliding table and open the chip box (See 2.5.3). Loosen the screw **38** with the included tool **40** (Fig. 40). Pull up the splitter till the distance between the saw table **1** and the top point of the splitter is at its maximum. The maximum distance between the splitter and the saw blade is 8mm (Fig. 15). Now fit the nut again and mount all the parts, being removed.

15.2.2 Adjustment of the cutting depth (Fig. 17)

Turn the hand crank **8** to set the required depth.

Turning clock wise: smaller cutting depth.

Turning anti-clock wise: bigger cutting depth.

15.2.3 Setting the blade angle (Fig. 17)

Loosen the lock screw 9. Turn the hand crank 9 to set the required angle on the scale b. Then tighten the screw again.

15.2.4 Rip fence

- Stop height (Fig. 19, 20)

The fence has two different guiding areas. For thick materials it must be used like shown in Fig. 22 and for thin ones like shown in Fig. 23

- Cutting width (Fig. 19, 20)



The fence **7** must be used for longitudinal cuts in wooden work pieces. It should be mounted on the right side of the blade **4**. It must be pushed into the guide **17** outside. Adjust the required distance and lock the fence with the lock screw.

- Setting the stop length

The stop rail can be moved on the work piece to prevent the work piece from becoming jammed.

Rule of thumb: The rear end of the stop comes up against an imaginary line that begins roughly at the center of the saw blade and runs at an angle of 45° to the rear.

At first set the cutting width. Then loosen the nuts **21** and pull the stop rail forwards till it reaches the imaginary line. Tighten the nuts again.

15.2.5 Cross stop and sliding table (Fig. 27)

Push the cross stop **7** into the groove **a** of the sliding table. Loosen the lock screw **12** and turn it till the arrow points at the required angle.

Important: Don't pull the stop rail too far to the saw blade. The distance between the rail and the saw blade **4** should be about 2cm.

Tighten the lock screw again.

15.3 Operation

15.3.1 Switching ON/OFF (Fig. 10)

For turning on the machine the cover must be opened and the green button must be pushed. This one is on the switch panel **11**. Let the engine get to its maximum speed before cutting.

Important: The cover must be flapped down again because it's used as emergency stop switch. For turning off you have to push the red button.

15.3.2 Longitudinal cuts (Fig.22)

For longitudinal cuts the sliding table must be fixed with the lock **19** (Fig. 18). Press one edge of the work piece against the longitudinal fence while the flat side lies on the saw blade. The blade guard always has to lie on the work piece. Adjust the fence. Turn on the machine. Place your hands (with fingers closed) flat on the work piece and pull it along the fence into the blade. Lead on the side with your hands always only to the position of the front edge of the blade guard. Always push the work piece through to the end of the splitter. The offcut piece remains on the saw table **1** until the blade is back in its position of rest.

- Cutting narrow work pieces:

Always use a push block **3** when the cutting width is lower than 120mm.

Important: Always replace a damaged push block through a new one.

- Cutting extremely narrow work pieces (Fig. 23):

Use a push block when the cutting width is lower than 30mm. Use the longitudinal fence like shown in Fig. 23.

- Making concealed nuts

Remove the saw blade guard (see 2.5.2). Adjust the cutting depth and the splitter new. Pull the work piece into the blade. After cutting the blade guard must be fitted again.

- Making bevel cuts (Fig. 25):

Adjust the required angle. The cut follows like a normal cut.

15.3.3 Working with the sliding table

- Cross cuts (Fig. 26, 27): Pull the sliding table forward. Set the cross stop to the required angle and fix it with the lock screw on the sliding table. Press the work piece against the cross stop and move the sliding table slowly forwards. Turn off the machine and remove the offcut when the saw blade is in its position of rest.
- Making edging cuts: Place the work piece on the sliding table and press it against the edging plate **c**. Pull the sliding table forwards and make the cut.



16 MAINTENANCE

	ATTENTION	
	<p>Perform all maintenance machine settings with the machine being disconnected from the power supply!</p> <p>Serious injury due to unintentional or automatic activation of the machine!</p>	

The machine does not require intense maintenance. However, to ensure a long lifespan, we strongly recommend following the upkeep and maintenance plan.

Repairs must be carried out by specialists!

16.1 Changing of the saw blade (Fig. 16)

	NOTICE
	Wear safety gloves when you work with saw blades!

Set the maximum cutting depth. Remove the blade guard and the sliding table. Then open the chip box. Use the two included tools 40, 41 to loosen the screw 42. Change the blades.

Important: Clean the flange before fitting the new blade.

Important: Note the running direction! The cutting angle of the teeth must point in running direction (see the arrow on the chip box). Do these steps backwards for fitting the new saw blade..

16.2 Maintenance plan

Loose or lost screws, nuts, bolts	Regularly prior to each operation
Damage of any part of the machine	Regularly prior to each operation
Machine cleaning	Regularly after operation

16.3 Cleaning

Clean the machine from dirt, chippings, etc ... Clean the machine housing with a wet cloth and a mild cleaning solution.

	IMPORTANT
	The usage of solvents, aggressive chemicals or scouring agents damages the machine housing.

16.4 Storage

Always store your machine in clean, dry rooms and cover it with a tuck. For the transport you have to use the wheels

16.4.1 Using the chassis (Fig. 11)

To swing the chassis out, gently lift the saw at the back and push the wheels backwards 15. Then lower the saw. It is now standing on the wheels and can be transported by one person with the aid of the handles 16 easily. **Important:** Never lift the saw by the sliding table!

Important: After the transport the chassis must be retracted in order to ensure that the saw is standing securely. To do this, return the wheels to their starting position by following the sequence in reverse.



16.5 Disposal

Do not dispose the machine in residual waste. Contact your local authorities for information regarding the available disposal options. When you buy at your local dealer for a replacement unit, the latter is obliged to exchange your old.



17 TROUBLE SHOOTING

BEFORE YOU START WORKING FOR THE ELIMINATION OF DEFECTS, DISCONNECT THE MACHINE FROM THE POWER SUPPLY.

PROBLEM	CAUSE	SOLUTION
Saw does not start.	Motor cord or wall cord is not plugged in. Circuit fuse is blown. Circuit breaker is tripped. Cord or switch is damaged.	Plug in motor cord or wall cord. Replace circuit fuse. Reset circuit breaker. Have the cord or switch replaced.
Rip fence does not move smoothly.	Rip fence not mounted correctly. Rails are dirty or sticky. Clamp screw is out of adjustment.	Remount the rip fence. Clean and wax rails. Adjust clamp screw.
Rip fence does not lock at rear.	Clamp screw is out of adjustment.	Adjust clamp screw.
Cutting binds or burns work.	Blade is dull. Working is fed too fast. Rip fence is misaligned. Spreader is out of alignment. Wood is warped.	Replace or sharpen blade. Slow the feed rate. Align the rip fence. Replace the wood. Always cut with convex side to table surface.
Wood edges away from rip fence when ripping. Saw does not make accurate 90° or 45° cuts.	Ripping fence is misaligned. Positive stops inside cabinet need adjusting (Bevel Cuts). Miter gauge is misaligned (Miter Cuts).	Check and adjust the rip fence. Adjust positive stops. Adjust the miter gauge.
Height/bevel adjusting handwheel is hard to turn.	Gears or post inside cabinet are clogged with saw dust.	Clean the gears or screw post.
Blade makes poor cuts.	Blade is dull or dirty. Blade is wrong type for cut being made. Blade is mounted backwards.	Clean, sharpen, or replace blade. Replace with correct type. Remount blade.
Blade does not lower when turning height / bevel adjusting handwheel.	Locking lever is not at full left position.	Move locking lever to left.
Motor labors in rip cut.	Blade not proper for rip out.	Change blade; rip blade typically has fewer teeth.

MANY POTENTIAL SOURCES OF ERROR CAN BE CLEARED BY THE EXPERTLY CONNECTION TO THE ELECTRICITY GRID.



NOTICE

Should you in necessary repairs not able to properly to perform or you have not the prescribed training for it always attract a workshop to fix the problem.