DE Original Betriebsanleitung Formatkreissäge

EN User Manual Panel saw

Formatkreissäge / Panel saw

TS 250F-1600

Bedienungsanleitung und Sicherheitshinweise lesen und beachten!

Read the operation manual carefully before first use!

CE

Technische Änderungen sowie Druck- und Satzfehler vorbehalten!

Technical data subject to changes, errors excepted!

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HOLZMANN-MASCHINEN GmbH
Marktplatz 4 | 4170 Haslach | AUSTRIA
Gewerbepark 8 | 4707 Schlüsslberg | AUSTRIA
Tel: +43 - 7289 / 71562-0 | Fax: +43 - 7289 / 71562-4
Tel: +43 - 7248 / 61116-0 | Fax: +43 - 7248 / 61116-6
info@holzmann-maschinen.at , www.holzmann-maschinen.at

2 SICHERHEITSZEICHEN / SAFETY SIGNS

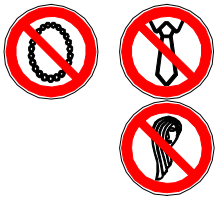
DE SICHERHEITSZEICHEN
BEDEUTUNG DER SYMBOLE

EN SAFETY SIGNS
DEFINITION OF SYMBOLS

Arbeitsbereich und Boden rund um die Maschine sauber und frei von Öl, Fett und Materialresten halten!
Für eine ausreichende Beleuchtung im Arbeitsbereich der Maschine sorgen!
Die Maschine nicht im Freien verwenden!
Bei Müdigkeit, Unkonzentriertheit bzw. unter Einfluss von Medikamenten, Alkohol oder Drogen ist das Arbeiten an der Maschine
verboten!

Das Klettern auf die Maschine ist verboten!
Schwere Verletzungen durch Herunterfallen oder Kippen der
Maschine sind möglich!

Die TS 250F-1600 darf nur vom eingeschulten Fachpersonal bedient werden.
Unbefugte, insbesondere Kinder, und nicht eingeschulte Personen sind von der laufenden Maschine fern zu halten!



Wenn Sie an der Maschine arbeiten, tragen Sie keinen lockeren Schmuck, weite Kleidung, Krawatten oder langes, offenes Haar.
Lose Objekte können sich in beweglichen/rotierenden Teilen verfangen und zu Verletzungen führen!

Bei Arbeiten an der Maschine geeignete Schutzausrüstung (Schutzhandschuhe, Schutzbrille, Gehörschutz, ...) tragen!

Schleifstaub kann chemische Stoffe beinhalten, die sich negativ auf die persönliche Gesundheit auswirken. Arbeiten an der Maschine nur in gut durchlüfteten Räumen und mit passender Staubmaske durchführen!

CE

DE CE-KONFORM - Dieses Produkt entspricht den EG-Richtlinien.

EN EC-CONFORM - This product complies with the EC-directives.

10 PREFACE

Dear Customer!

This manual contains Information and important instructions for the installation and correct use of the Electric drill bit sharpener TS 250F-1600.
This manual is part of the machine and shall not be stored separately from the machine. Save it for later reference and if you let other persons use the machine, add this instruction manual to the machine.

Please read and obey the security instructions!
Before first use read this manual carefully. It eases the correct use of the machine and prevents misunderstanding and damages of machine 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 machine receipt and unpacking before putting the machine into operation.
Please understand that later claims cannot be accepted anymore.

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CUSTOMER SERVICE CONTACT

HOLZMANN MASCHINEN GmbH

A-4170 Haslach, Marktplatz 4
Tel 0043 7289 71562 – 0
Fax 0043 7289 71562 – 4
info@holzmann-maschinen.at

11 TECHNIC

11.1 Main components

Fig. 1

Fig. 2

11.2 Controls

A	Crosscut Table	L	Mitre gauge
B	Flip Stops	M	Rip fence
C	Crosscut fence	N	Fence Assembly Lock Down lever
D	Leg-Used to support the sliding table	P	Fine-Adjust knob
E	Sliding Panel	Q	Rip Fence Rail
F	Blade Guard	R	End Shore
G	Rear extension table	S	Main Blade Angle Lock Knob
H	Power switch	T	Hold Down
J	Blade elevation Hand wheel	U	Riving Knife
K	Blade angle hand wheel	V	Main Blade

11.3 Specifications

Mains connection	V/Hz	230 / 50
	V/Hz	400 / 50
Engine power	kW / (S6) S1 (100%)	2,2 / 3,1
Speed	U/min / min-1	3600
Saw blade Ø	mm	254 x 30 x 3
Major table size	mm	350 x 760
Extension table size	mm	300 x 760
Rear extension table size	mm	280 x 400
Cross cut table size	mm	600 x 450
Sliding panel	mm	1600 x 238
Cross cut fence	mm	1020 x 1850
Maximum distance-blade to rip fence	mm	600
Swivel range		90° - 45°
Maximum cutting height	mm	80 (90°) 60 (45°)
Overall dimensions	mm	790 x 685 x 605
weight	kg	155 kg

11.4 Noise emmision

Explanations of noise emission:

3. Weighted level: Sound pressure in free-running
   L_{pfA} = 83 dB
   Uncertainty K = 4 dB

4. Weighted level of noise power on the workstation
   L_{wA} = 90 dB
   Uncertainty - K = 4 dB
   on error limit interval 95%

12 SAFETY

12.1 Intended use

The machine only in technically perfect condition in accordance with, safety and danger, use it! Interference, which could affect safety, must be rectified immediately!
It is generally prohibited to modify safety equipment of the machine or to make ineffective!

The Panel saw TS 250F-1600 is exclusively for cutting wood-based materials
(solid, particle board, veneer, etc.) determined.
For a different or additional use and resulting damage or injury takes HOLZMANN MASCHINEN no responsibility or warranty.

12.1.1 Working conditons

The machine is designed for the work under the following conditions:

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

The machine is not intended for outdoor use.
The machine is not intended for use in potentially hazardous conditions.

12.2 Prohibited use

- The operation of the machine under conditions outside of the limits, given in these instructions is not permitted.
- The operation of the machine without the safety devices provided is inadmissible
- The removal or turning off the protection devices is prohibited
- It is not permitted processing of materials with dimensions outside the limits specified in this manual.
- It is not permitted the use of tools that are not for use with TS 250F-1600 are suitable.
- The operation of the machine on a way or for any purpose that does not comply with the instructions of this manual to 100%, is prohibited.
- Do not leave the machine unattended, especially when children are not around. DO NOT LEAVE the workplace!

For a different or additional use and resulting property damage or injury takes HOLZMANN-MASCHINEN no responsibility or warranty.

12.3 General Safety

Warning signs and / or labels on the machine that are illegible or have been removed are to be replaced immediately!

To avoid malfunctions, damage and physical injury MUST be observed:

Work area and keep soil around the machine clean and free of oil, grease and waste reduction!

Provide adequate lighting in the work area of the machine!

The machine does not use outdoors!

With fatigue, lack of concentration or under the influence of drugs, alcohol, or drugs that work on the machine is prohibited!

The climbing on the machine is prohibited!

Serious injury from falling or tilting the machine is possible!

The TS 250F-1600 may be operated only by qualified personnel enrolled. Unauthorized persons, especially children, and people are not trained to think of the current remote machine!

If you work on the machine, you do not wear loose jewelry, loose clothing, neckties or long hair out.

Loose objects can become entangled in moving / rotating parts and cause injury!

When working on the machine suitable protective equipment (gloves, safety glasses, hearing protection, ...) wear!

Sanding dust may contain chemical substances that have a negative impact on personal health. Work on the machine only in well-ventilated areas with suitable dust mask to perform!

Before maintenance or adjustment, the machine must be disconnected from the power supply! Turn off the main switch before disconnecting the power supply (OFF).

Never use the cord for transport or Manipulation of the machine!

+ On the device are only few of them serviceable components. It is not necessary to dismantle the machine. Repairs must only be performed by an expert!
+ Accessories:
+ Use only recommended accessories HOLZMANN !
+ If you have any questions or problems, contact our customer service.

12.4 Safety devices

In the design of the machine following protective devices are provided:

- Forced operation of the splitting wedge. This measure is intended to avoid kickback of the workpiece. The setting is in horizontal and vertical direction relative to the saw blade.
- The blade guard is attached to the splitting wedge in order to avoid contact with the blade.
- The blade unit can be submerged entirely under the work table. This you have to remove the blade guard cover from the riving knife.
- device for locking the setting chosen in the vertical and horizontal direction and in an inclined position.
- Flanges for tool attachment. They are fixed by a spline to the shaft for the self-detachment of the tools to avoid the stoppage of the machine.
- nut (left-hand thread!) For tool attachment on the shaft.
- rip fence. Used for precise guiding of the workpiece in the longitudinal cutting. It is also made of crushable material (aluminum).
- The setting of the parallel ruler is possible without the use of tools; the position is read on a measuring scale.
- Electronic brake for electrodynamic braking of the motor. Secures the tool in less than 10 seconds to slow down after the drive off.
- Impeccable sharpened tools.
- The use of blunt tools is not permissible due to kickback, overloading the machine and produce poor surface during machining.
- For cuts less than 120 mm width supplying the material with a push stick must be made, and the stop bar must be in a flat position.

12.5 Residual risk factors

Also in compliance with all safety regulations and when used following residual risks are considered:

- Risk of injury to the hands / fingers through the circular saw blade during operation.
- Risk of injury from contact with live electrical components.
- Risk of injury or ejection fraction or the circular saw blade circular saw blade parts, especially case of overload and in the wrong direction.
- Hearing, unless arrangements have been made by the user for hearing protection.
- Risk of injury from kickback of the cuttings, the ejection of the cut material or parts of there.
- Risk of injury to the eye by flying debris, even with goggles.
- Risk due to inhalation of toxic dust in chemically treated wood Workpieces.

These risks can be minimized if all safety rules are applied, the machine is properly maintained and serviced the machine as intended and is serviced by a trained service professional. Despite all the safety devices and remains her good common sense and your appropriate technical qualification / training on the operation of a machine such as the sliding panel saw TS 250F-1600 is the most important safety factor!

13 ASSEMBLY

13.1 Preparatory activities

13.1.1 Scope of delivery

After receipt of the delivery, if all parts are in order. Report any damage or missing items immediately to your dealer or the shipping company. Visible damage must also be recorded without delay in accordance with the provisions of the warranty on the delivery, otherwise the goods shall be accepted as properly.

13.1.2 Workplace

Choose a suitable place for the machine. Observe the safety requirements of Chapter 12 and the dimensions of the machine from Chapter 11.3.

The selected location must ensure as well as the possibility for connection to an extraction system a suitable connection to the electrical grid.
Make sure that the floor can support the weight of the machine. The machine must be leveled on all bases simultaneously.

You must also secure around a distance of at least 0.8 m around the machine. Before and behind the machine must be provided the necessary distance for the supply of long workpieces.

13.1.3 Preparation of the surface

Eliminate the preservative, which is applied for corrosion protection of the parts without painting. This can be done with the usual solvents. Here no nitro solvent or similar means, and in no case use water.

NOTE

The use of paint thinners, gasoline, corrosive chemicals or abrasive cleaners will result in damage to the surface!
Therefore:
ρ When cleaning, use only mild detergent

13.2 assembly

The sliding table saw is delivered pre-assembled. Base-frame, Side work table, rear work table, rip fence, miter gauge, riving knife and blade guard must be fitted.

13.2.1 Assembly of the base frame

Remove the side panels and the four angles of the packaging.
Following the end, refer also:
16 pcs 6 hexagon screws M8x16, 32 St. washers 8mm, 16 pcs M8 nuts.

a) Assemble the base frame as shown (Fig. 3)

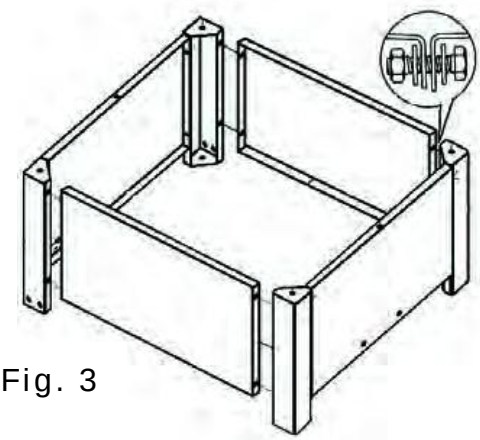


Fig. 3

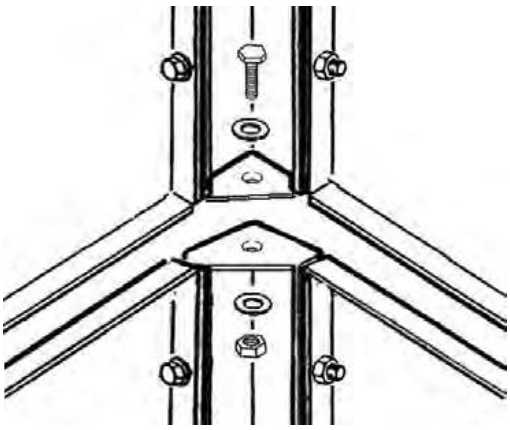


Fig. 4

The following can be found also:
4 pcs 6 hexagon screws M8x16mm, 8 pcs 8mm flat washers, 4 St. M8 nuts.

- Open the side door with the star knob screw.

b) The machine unit to the base frame mount (Fig. 4)

c) lateral worktable screw (Fig. 5)

- With 4 screws M8x22 and washers lateral worktop is bolted to the main work surface.

Fig. 5

d) rear worktable screw (Fig. 6)

- With 2 screws M8x12 and washers rear worktop is bolted to the main work

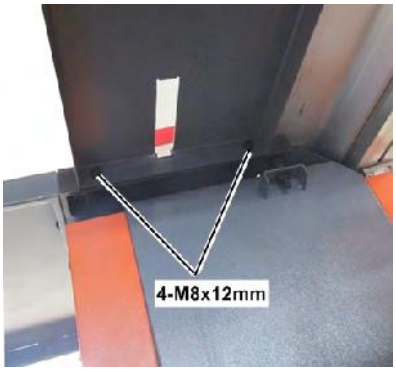


Fig. 6

13.2.2 Install guide rail and rip fence

- Install guide rail and rip fence
- Set 3 pcs 4-kant M8x25 screws from the outside into the worktop. (Fig. 7)
- Inside turn to screw on the screws washers and 6-hexagon nuts.
- Slide the guide rail as shown on Fig.7 with the profile on the screws.
- The 6-hexagon nuts tighten slightly.
- The guide rail ausjustieren and tighten securely.

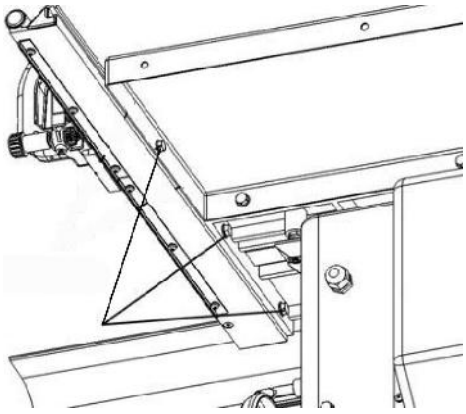
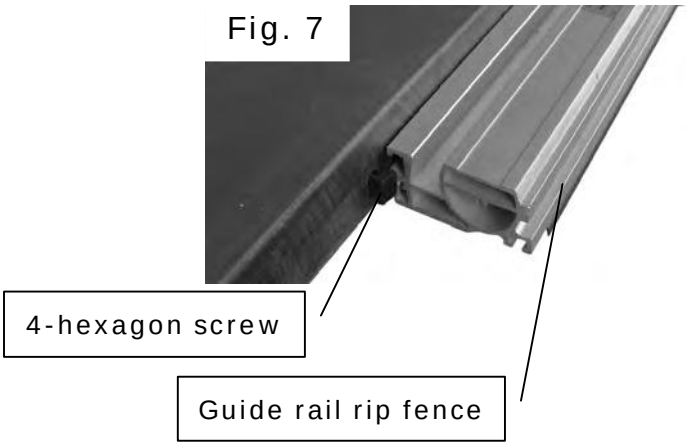


Fig. 7



13.2.3 Mounted handwheel height adjustment / tilt angle

The hand wheel for height adjustment (1) and for the Inclination angle (2) Place the blade onto the shaft and tighten with the appropriate screws on the spindle shaft

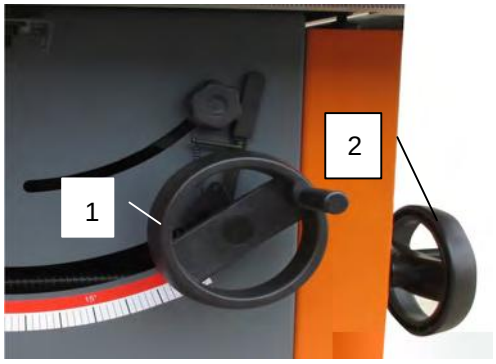


Fig. 8

f) Align assembly rip fence rail / measuring scale

- Adjust the tilt angle of the saw blade to 90 °.

- Slide the rip fence to the rip fence rail.
- The rip fence to the saw blade slide.
- Tap on the right end of the scale to the "0" scale on the rail with the red line on the Lens align the rip fence.

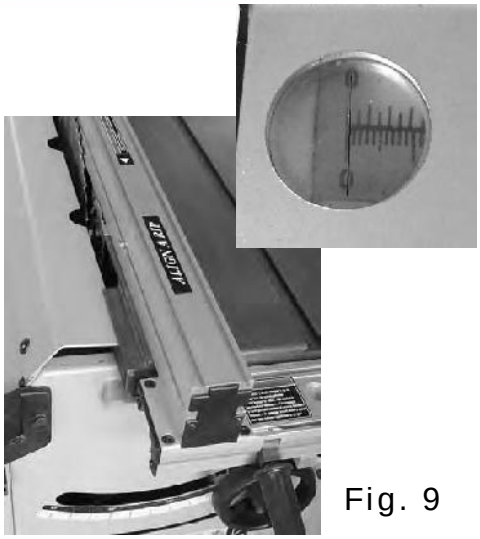


Fig. 9

g) Cultivation of the rocker arm

- Place the rocker arm on the base unit and fasten with 4 screws M8x30

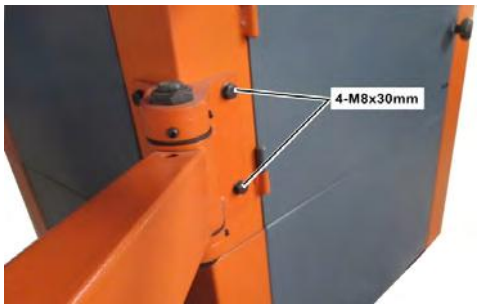


Fig. 10

13.2.4 Sliding table mount and align

- Insert the angle brackets with the mounted 6-hexagon screws heads (B) in the T-slot (A) of the basic profile.
- Slightly tighten the angle brackets with washers and 6-hexagonal screws.
- Adjust the gap at the left end of the sliding table to the base frame of 400mm. (Fig. 12)
- Set the distance from the sliding table to the main table to 2-3 mm parallel to the saw blade.
- With the adjustment screws (E) set horizontally on both sides and tighten lock nut. (Fig. 13)
- Tighten the M10 nuts (D). (Fig. 13)

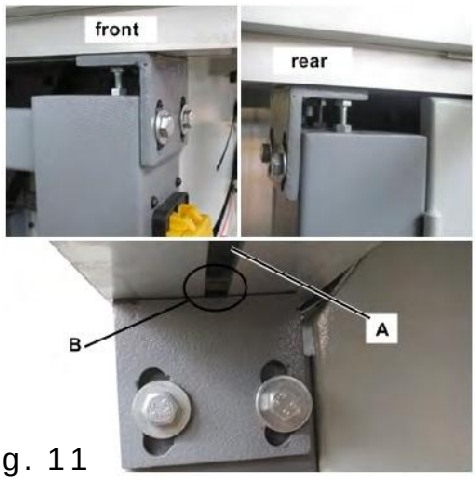


Fig. 11

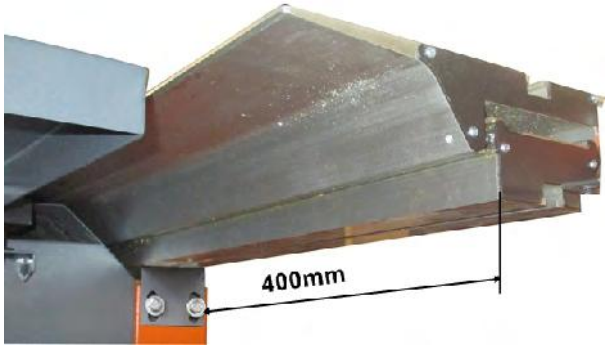


Fig. 12

- The two nuts (D) firmly.
- The angle brackets using the 4 screws (F) tighten.

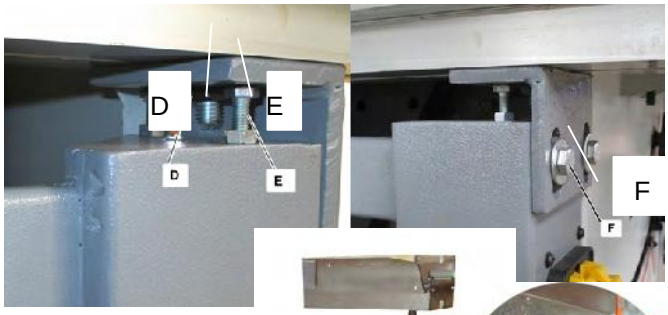


Fig. 13

13.2.5 Install sliding table support

- Insert the T-bolt with the bracket in the basic profile of the sliding table and tighten by turning the prop. (Fig. 14)

Fig. 14

13.2.6 Screw the sliding table handle and locking pin

- The T-nut M12x1,75 push in the slide profile.
- The handle and tighten with a wrench SW17.

- Install the locking bolt bracket with 2 screws M6x10

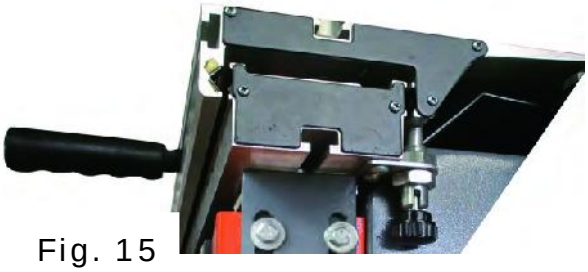


Fig. 15

13.2.7 Install Sliding table extension

- Slide two M12x55 T type bolts into the slot of the sliding carrier, let the crosscut table attach to the sliding panel.
- Place the cross-cut table (A) onto the swing arm assembly and install it on the M20 screw.
- Use two ratchet handle mounted the cross-cut table to sliding panel.

- Adjust the thin two nuts M16 (B) to adjust the cross cut table on the line with sliding panel.
- Then tighten the two thin nuts M16 (B) and the thin nut M20 (C).

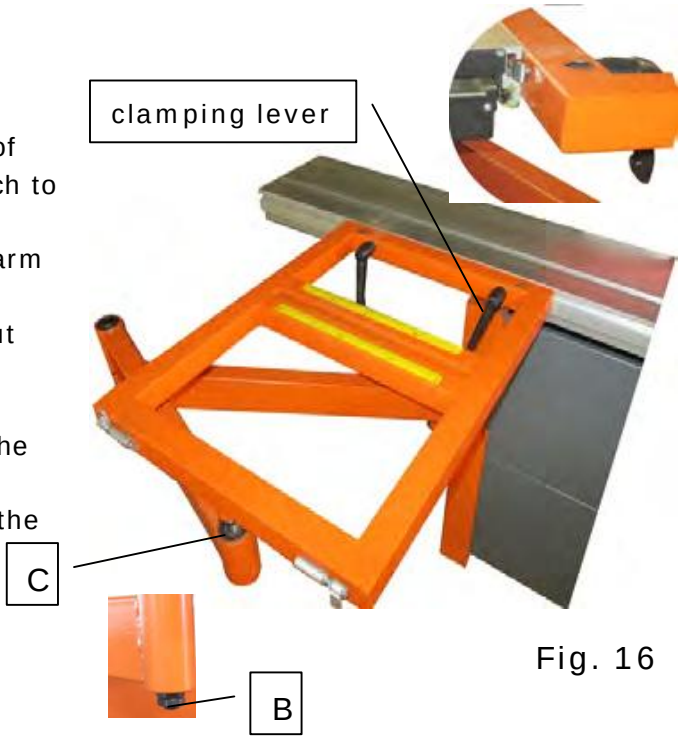


Fig. 16

13.2.8 Install the cross-cut fence

- Drop the cross cut fence into the forward or rear guide pin hole.
- Tighten the knurled nut.
- Turn the star type screw and clamped the fence in position.

- Slide the flip stop (A) into the fence.
- Place a T-nut into the top slot of fence, thread the stud of hold-down on fence.

Fig. 17

13.2.9 Screw the suction hose adapter

- Screw the suction adapter with 4 screws M6x12 and washers

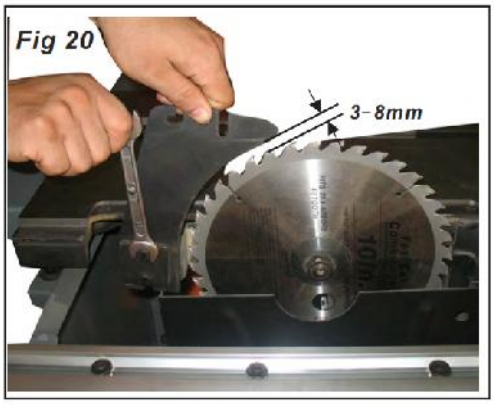
Fig. 18

13.2.10 Screw blade guard cover

- Screw the blade guard cover on the riving knife

Fig. 19

13.2.11 Adjust the riving knife



The splitting wedge is dimensioned so that it is thicker than the blade in its width. This ver-prevents that the teeth on the rear periphery of the saw blade does not contact the workpiece and it is damaged accidentally, or can be thrown out.

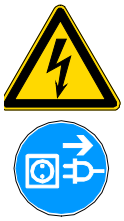
- Set the distance of the gap wedge to blade ready to approx. 3 - 8mm
- Unscrew the screws on the splitting wedge slightly and tighten it again after adjustment.

NOTE: This procedure should be repeated each time the when the saw blade is replaced.

13.3 Electrical connection

Only a qualified electrician is authorized for the electrical connection, including the installation of the supply part. This must be cut off before the electrical connection. Only when the main power supply is cut off, each contact can be closed. The cowl box is attached to the back of the machine body. There is also a junction box on the side, which you have to connect only to the marking.

13.4 Earthing connection



⚠ ATTENTION

When working on an ungrounded machine:

Serious injury due to electric shock in the event of a malfunction possible!

Therefore:

ρ Machine must be grounded and be connected to a grounded outlet

+ The electrical connection of the machine is ready for operation on a grounded electrical outlet!
+ The plug must be connected only to a properly fitted and grounded electrical outlet!
+ The supplied plug must not be changed. If the plug does not fit or is defective, only a qualified electrical engineer may modify or replace these plugs!
+ The grounding conductor is green-yellow!
+ In the event of repair or replacement of the grounding conductor must not be connected to an under voltage can!
+ Check with a qualified electrician or service that the grounding instructions are understood and the machine is grounded!
+ A damaged cable must be replaced immediately!

14 OPERATION

14.1 Adjustments before initial

+ Before any adjustments, the machine must be disconnected from the power supply to avoid the risk of accidental switching on the machine!
+ Check that the set speed for the saw blade used is not too high.
+ Span only saw blades with a diameter of 254 mm.

14.2 Operation

14.2.1 Saw blade start / stop

If you want to press the ON OFF switch, the combined EMERGENCY STOP switch must be in the open state.

- To start, press the green button ˝ I ˝
- To start, press the red button ˝ O ˝

INFO: In the closed state of the main switch can be operated as an EMERGENCY STOP switch.

14.2.2 Setting the cutting length

The cutting length can be set on the rip fence guide so that it is read on the graduated scale. With the clamping screw, this can be fixed. (Fig. 9)

14.2.3 Saw blade height adjustment

To adjust the height of the material of the blade, turn the handwheel A (Fig. 20) clockwise around the blade upward to lift. Turn to lower it to the left.
The blade should protrude approximately 5 mm from the workpiece.

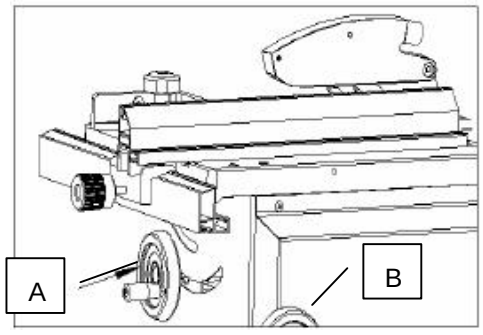


Fig. 21

After adjusting the height with the clamp screw / lever clamp

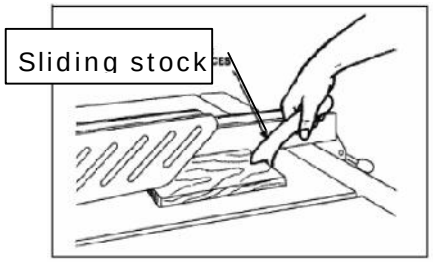
14.2.4 Setting angle of intersection

The handwheel B (Fig. 21) serves the incline of the saw blade from 90 ° set at 45 °.

14.3 sectional variations

Longitudinal sections, long sections

Here's to accomplish through the rip fence the side guide.



In blanks with a width of less than 120 mm for feeding the workpiece MANDATORY ON SLIDING STOCK TO USE!

Cross sections, short sections

For this purpose, the angle-adjustable miter gauge to be used.

Bring these In the position 90 ° to the saw blade and place the workpiece thereon on.Supportive can, for example, be used for repeated cutting at the same width, the rip fence as an additional lateral support.

Cuts at an angle

For this purpose, the angle-adjustable miter gauge to be used.
Bring these to the desired angle to the saw blade and place the workpiece thereon on.

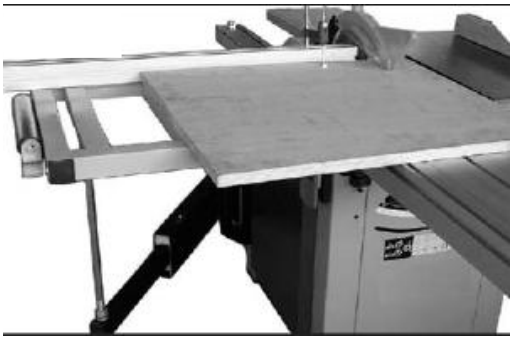
to Note

Before each use to make sure the proper state of the machine!
That in particular: Blade sharpened and without cracks or other damage (injury !!!), splitting wedge min. Tightened 3mm distance from the saw blade teeth, EMERGENCY OFF switch functional, all connections and stable etc ...

edging shoe

The edging shoe serves to avoid a workpiece kickback.

Longitudinal cutting of plates



- Setting the acceptance by scale miter on.
- Workpiece support table on boom and fixation with retention.
- Feed with sliding table.
- Use with decreasing width under 120mm disc Stock

Cross-cutting small plates

- Adjustment of the loss, as well as guide the workpiece through the rip fence.
- Use a push stick.

Cross-cutting of long plates

- Setting the target width on the miter gauge.
- Tilt stop at the desired level fix.
- Workpiece secured with hold-down
- Feed with sliding table

- Alternatively, with angle stop in position 90 °
- Workpiece secured with hold-down
- No resting on table boom
- Preferable variant depending on dimensions of the workpiece

Cutting of large plates

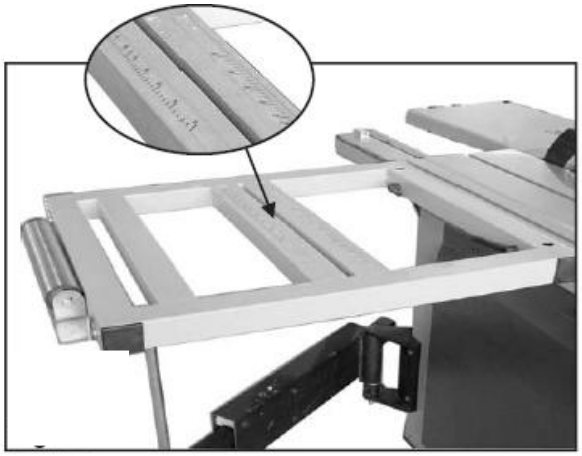
- Workpiece support table on boom
- Side of the rip fence
- Decrease in scale to the right
- Miter fence (90 °) before work
- Workpiece fixation with retention

cutting boards

- Miter fence behind workpiece
- Lateral fixation with tilt stop
- Workpiece fixation by means of retainers

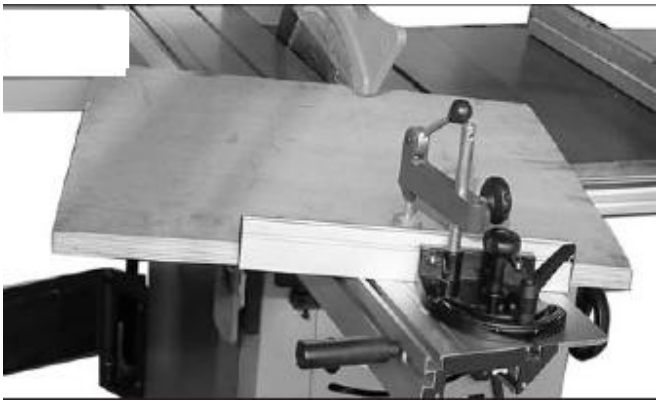
Angle cuts with miter gauge

In table boom two angular scales are integrated, so that the miter fence can be set exactly in both directions of pivot up to 45 °. Workpiece fixation by means of retainers.



Angle cuts with crosscut fence

For smaller workpieces, the angle stop is sufficient. Set the angle stop on the desired degree of tilt fix. Create workpiece clamping with low-holder.



15 MAINTENANCE AND CARE

ATTENTION

Don't clean or do maintenance on the machine while it is still connected to the power supply:

Damages to machine and injuries might occur due to unintended switching on of the machine!

Therefore: Switch the machine off and disconnect it from the power supply before any maintenance works or cleaning is carried out

The machine is low maintenance and contains little parts that must undergo a maintenance operator.

Faults or defects that may affect the safety of the machine, must be rectified immediately.

Repair work may only be performed by qualified personnel!

The complete and utter cleaning ensures a long life for the machine and represents a safety requirement.

After each shift the machine and all its parts must be thoroughly cleaned by the dust and swarf sucked through the suction system and all other waste is disposed of by compressed air.

Check regularly that all warning and safety instructions on the machine and available in a perfectly legible condition.

Check before every use the perfect condition of the safety devices.

For storage of this machine may not be stored in a humid room and must be protected from the influence of weather conditions.

+ The elimination of defects does your dealer
+ Repair work may only be performed by qualified personnel!

15.1 blade change

Disconnect the machine from the power supply prior to any checks performed at the machine itself !

CAUTION: When mounting and blade change always use protective gloves!

- Set the saw blade to tilt 90 °
- Remove the blade guard cover.
- Move the sliding table all the way to the right and secure with fixing bolt.
- Open the safety cover -Saw blade-
- With a wrench the motor spindle is secured to the shaft on the motor.
- With the spanner the 6-square nut is screwed clockwise.
- The flange and remove the blade.
- Place the new blade in the correct direction of rotation.
- Flange and replace with 6 hexagon nut anticlockwise.

- Safety cover back on.
- Saw blade protection cover back on.

Installation is in the reverse order of removal.
NOTE: Observe direction of rotation of the saw blade during installation!

15.2 Change V-belt

Disconnect the machine from the power supply prior to any checks performed at the machine itself !

- Set the saw blade to tilt 90°.
- Remove saw blade - see 8.1
- 3 Allen screws M8x18 Unscrew the cover plate.

  NOTE: To remove the lower two Allen screws that tilt the blade to 30° is set. For the upper hex screws tend to 90.degree.

- Unscrew the left side panel plate.
- Motor screws (A), loosen the extent that the belt tension to the extent laid remove the belt around it (B).
- Remove the V-belt and replace with new.

In reverse order tension V-belt, motor tighten, then tighten the V-belt cover and mount the saw blade.

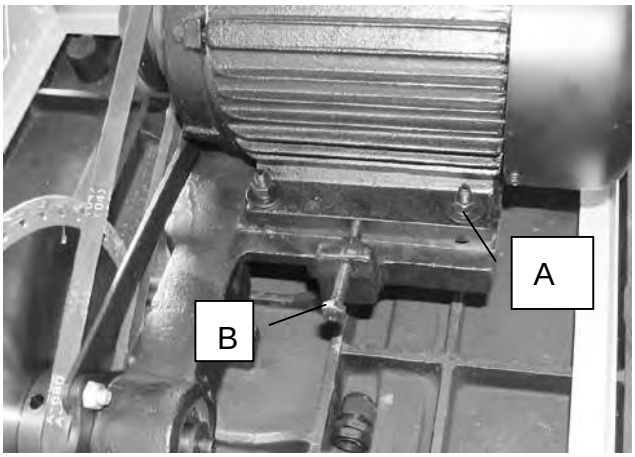


Fig. 22

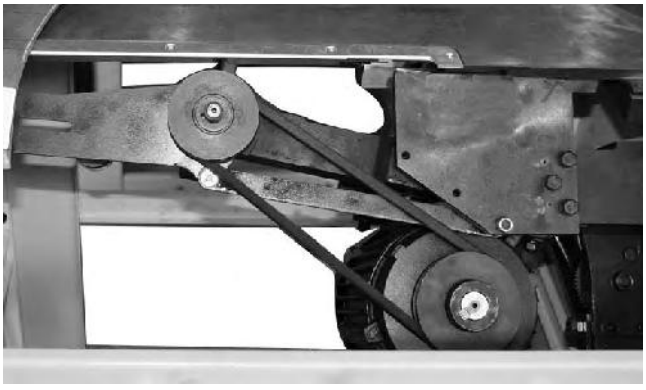


Fig. 23

15.3 Cleaning

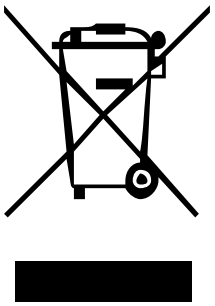
NOTE
The use of solvents, harsh chemicals or abrasive cleaners leads to damage to the machine! Therfore: When cleaning water and mild detergent if necessary use.

Bare surfaces of the machine against corrosion impregnate (with anti-rust WD40)

15.4 Maintenance

Clean under the sliding table guide.
All parts (except the bearings of the main saw mandrel) should be lubricated twice weekly.
The inside of the machine base suck monthly.

15.5 Disposal



Do not dispose of the TS 250F-1600 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

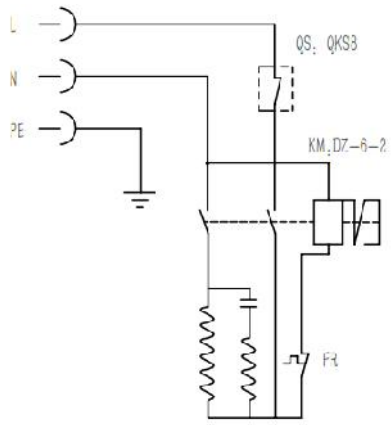
16 TROUBLESHOOTING

Disconnect the machine from the power supply prior to any checks performed at the machine itself !

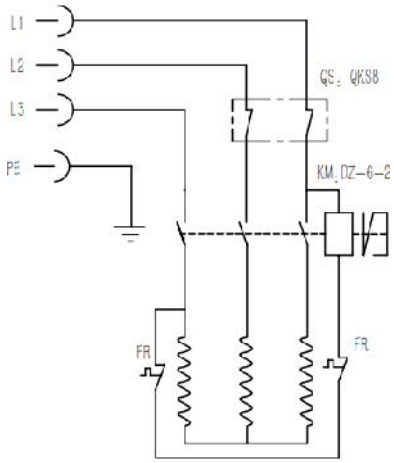
Trouble	Possible cause	Solution
Machine does not start	• Emergency stop switch to switch off • switch is broken	• Turn the emergency OFF switch to the right to unlock to • Repair the the switch
Burn marks on the work-piece	• The blade is blunt	• Replace the blade
The finished size of the machined workpiece does not correspond to the set cutting width on rip fence	• Adjusted measurement scale for the cutting width display	• Setting dimension scale: cut workpiece on the rip fence, measure the workpiece and the measuring scale move so that the measured aver-age width is shown at the edge of the ruler
Workpiece clamped in ad-vancing	• dull blade • Riving knife thickness does not match the used blade	• Replace with sharp blade • Splitting wedge thickness must be greater than or equal to blade thickness.
Broken edges on the workpiece	• The scoring saw is not on the same line with the main saw	• Set the scoring saw a new

17 ELEKTRISCHE SCHALTUNGEN / ELECTRIC DIAGRAM

1~, Motor



3~, Motor



18 ERSATZTEILE / SPARE PARTS

18.1 Ersatzteilbestellung / spare parts order

Mit Holzmann-Ersatzteilen verwenden Sie Ersatzteile, die ideal aufeinander abgestimmt sind. Die optimale Passgenauigkeit der Teile verkürzen die Einbauzeiten und erhalten die Lebensdauer.

HINWEIS

Der Einbau von anderen als Originalersatzteilen führt zum Verlust der Garantie!
Daher gilt: Beim Tausch von Komponenten/Teilen nur Originalersatzteile verwenden

Beim Bestellen von Ersatzteilen verwenden Sie bitte das Serviceformular, dass Sie am Ende dieser Anleitung finden. Geben Sie stets Maschinetype, Ersatzteilnummer sowie Bezeichnung an. Um Missverständnissen vorzubeugen, empfehlen wir mit der Ersatzteilbestellung eine Kopie der Ersatzteilzeichnung beizulegen, auf der die benötigten Ersatzteile eindeutig markiert sind.

Bestelladresse sehen Sie unter Kundendienstadressen im Vorwort dieser Dokumentation.

With original Holzmann spare parts you use parts that are attuned to each other shorten the installation time and elongate your machines lifespan.

IMPORTANT

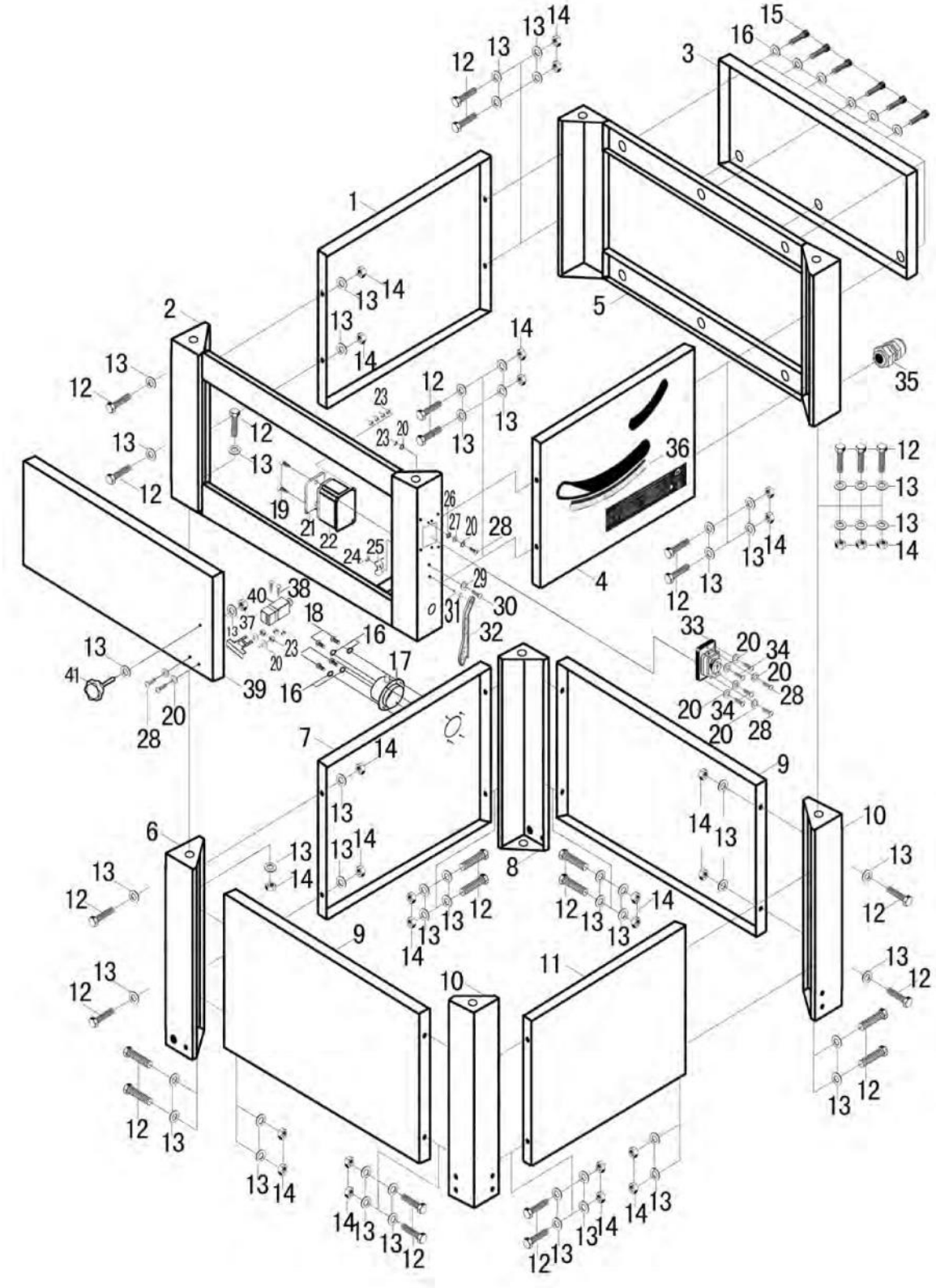
The installation of other than original spare parts voids the warranty!
So you always have to use original spare parts

By the order of spare parts use the service formular that you can find at the end of this manual. Make always a note of the type, spare part number and a definition of the machine. That there are no mistakes, we recommend to make a copy of the spare part list where you can mark with a pen the spare parts which you order.

You find the order address in the preface of this operation manual.

18.1.1 Explosionszeichnungen und Stücklisten / Exploded views and parts lists

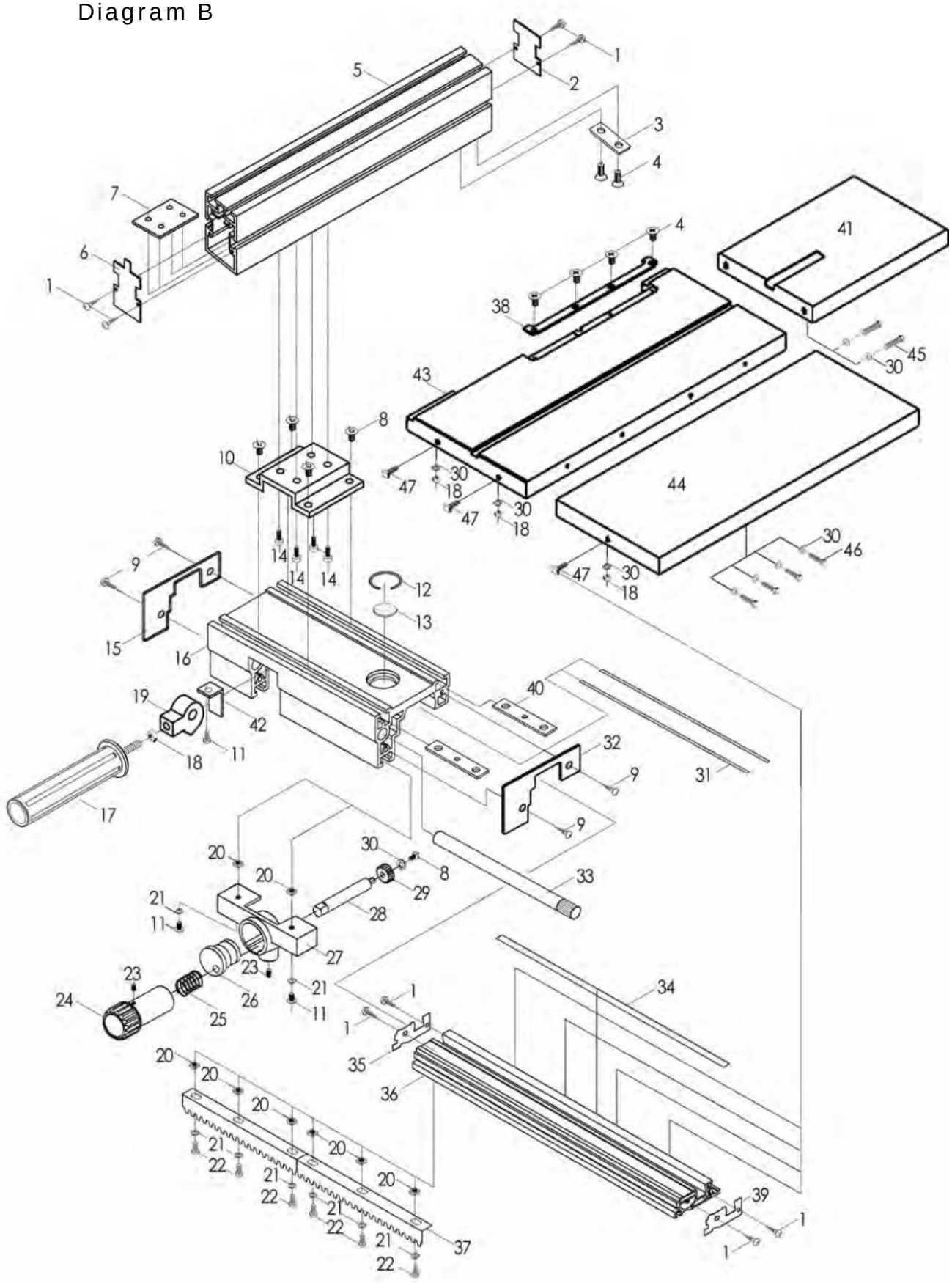
Diagram A



Parts list (Diagram A)

No.	DESCRIPTION	Qty	No.	DESCRIPTION	Qty
A-1	Rear panel, machine housing	1	A-23	Hex nut M4	9
A-2	Lest frame, machine housing	1	A-24	Hex nut M5	1
A-3	Right panel, machine housing	1	A-25	Wire clamp	1
A-4	Front panel, machine housing	1	A-26	External teeth lock washer 5mm	1
A-5	Right frame, machine housing	1	A-27	Spring washer 4mm	1
A-6	Column A	1	A-28	Pan head screw M4x10	5
A-7	Rear panel, work stand	1	A-29	Washer 5mm	1
A-8	column B	1	A-30	Pan head screw M5x20	1
A-9	Side panel, work stand	2	A-31	Holder, push sitcker	1
A-10	Column C, work stand	2	A-32	Push sticker	1
A-11	Front panel, work stand	1	A-33	Switch	1
A-12	Hex screw M8x16	28	A-34	Pan head screw M4x14	4
A-13	Washer 8mm	58	A-35	Strain relief M20	1
A-14	Hex nut M8	28	A-36	Scale, 45 degree	1
A-15	Allen screw M6x22	6	A-37	Lock nut M8	1
A-16	Washer 6mm	10	A-38	Pan head screw M4x30	2
A-17	Dust outlet	1	A-39	Door	1
A-18	Pan head screw M6x16	4	A-40	Micro. Switch	1
A-19	Taping screw ST4.2x12	2	A-41	Konb M8	1
A-20	Washer 4mm	10	A-42	Hex screw M8x30	1
A-21	Switch bottom board	1	A-43	Hex thin nut M8	1
A-22	Switch box	1			

Diagram B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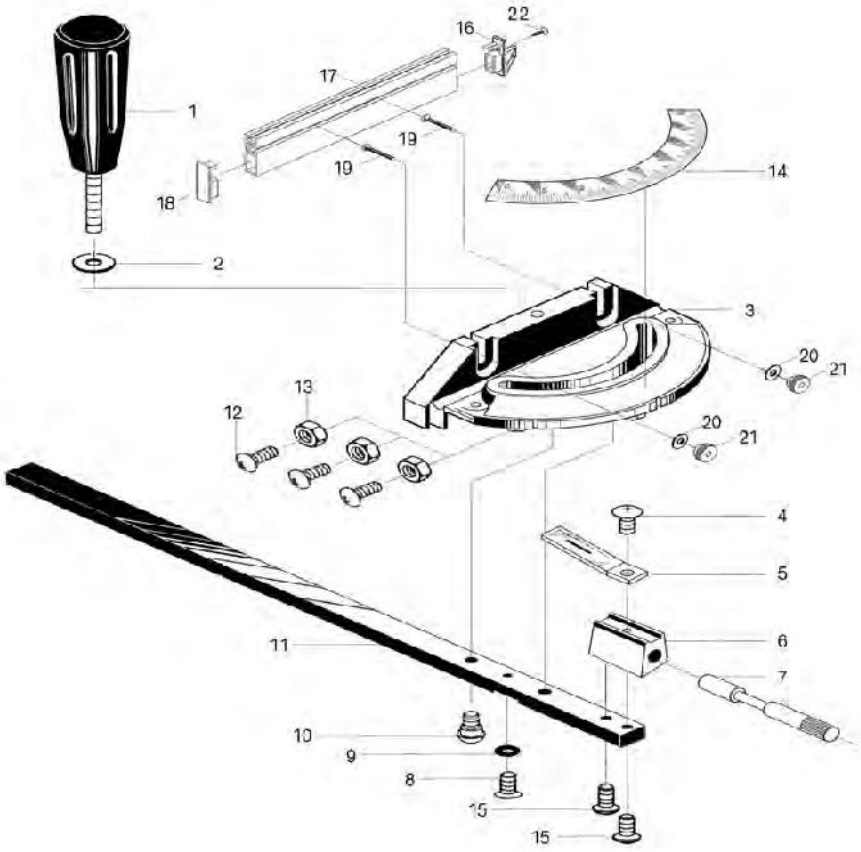
Parts list (Diagram B)

No.	DESCRIPTION	Qty	No.	DESCRIPTION	Qty
B-1	Taping screw ST4.2x10	8	B-25	Spring,gear	1
B-2	Cap , fence	1	B-26	Eccentric,fine adjust	1
B-3	Plate, fence	1	B-27	Seat, fine adjust	1
B-4	Sunk head screw M5x6	4	B-28	Rod,gear	1
B-5	Fence	1	B-29	Gear	1
B-6	Cap,fence	1	B-30	Washer 8mm	10
B-7	Guide plate, screw	1	B-31	PVC sticker	2
B-8	Countersunk screw M5x8	5	B-32	Right cap ,fence guide	1
B-9	Taping screw ST4.0x10	4	B-33	Rod,lock handle	1
B-10	Jointer, fence	1	B-34	Scale, fence guide	1
B-11	Pan head screw m4x6	3	B-35	Left cap, fence rail	1
B-12	Ring circle	1	B-36	Fence rail	1
B-13	Lens	1	B-37	Rack,fine adjust	2
B-14	Allen screw M6x12	4	B-38	Table insert	1
B-15	Left cap, fence guide	1	B-39	Right cap,fence rail	1
B-16	Fence guide	1	B-40	Screw guide plate	2
B-17	Lock handle, fence	1	B-41	Rear extension table	1
B-18	Hex nut M8	4	B-42	Lock plate	1
B-19	Lock eccentric cam	1	B-43	Main table	1
B-20	Square nut M5	8	B-44	Extension table	1
B-21	Washer 5mm	8	B-45	Hex screw M8x12	2
B-22	Pan head screw M5x8	6	B-46	Hex screw M8x22	4
B-23	Set screw M6x6	2	B-47	Hex screw M8x25	3
B-24	Handle, fine adjust	1			

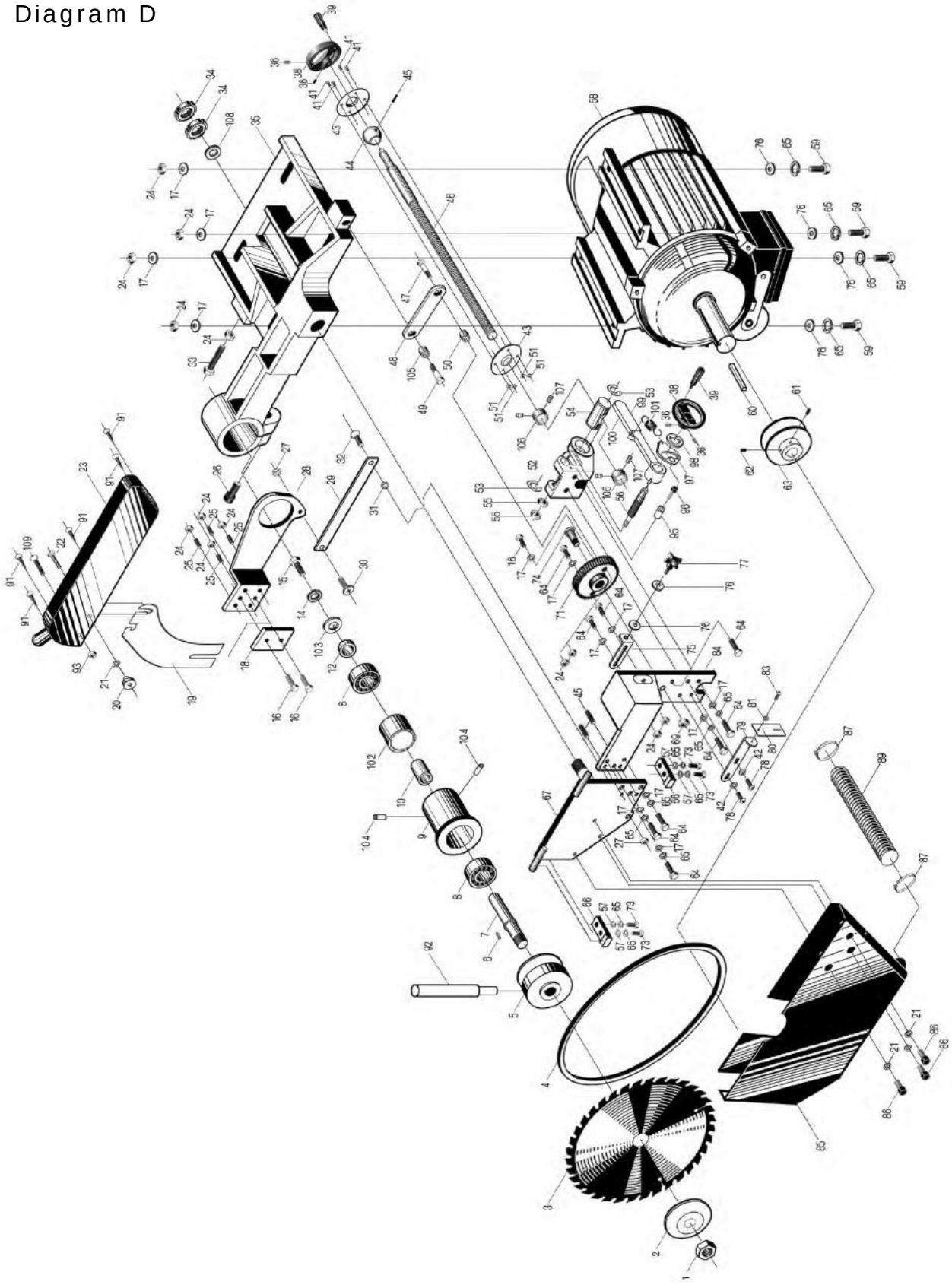
Diagram C



Parts list (Diagram C)

No.	DESCRIPTION	Qty	No.	DESCRIPTION	Qty
C-1	Mitre gauge knob	1	C-12	Pan head screw M4x18	3
C-2	Washer 6mm	1	C-13	Hex nut M4	3
C-3	Mitre gauge base	1	C-14	Scale ,gauge	1
C-4	Pan head screw M5x10	1	C-15	Pan head screw M5x8	2
C-5	Indicator gauge	1	C-16	End cap, gauge fence	1
C-6	Block indicator	1	C-17	Gauge fence	1
C-7	Stop pin	1	C-18	End cap, gauge fence	1
C-8	Sunk head screw M5x8	1	C-19	Carriage bolt M6x30	2
C-9	Roller,gauge	1	C-20	Washer 6mm	2
C-10	Guide pin	1	C-21	Knurled nut	2
C-11	Mitre gauge rod	1	C-22	Taping screw ST5x10	1
		1			

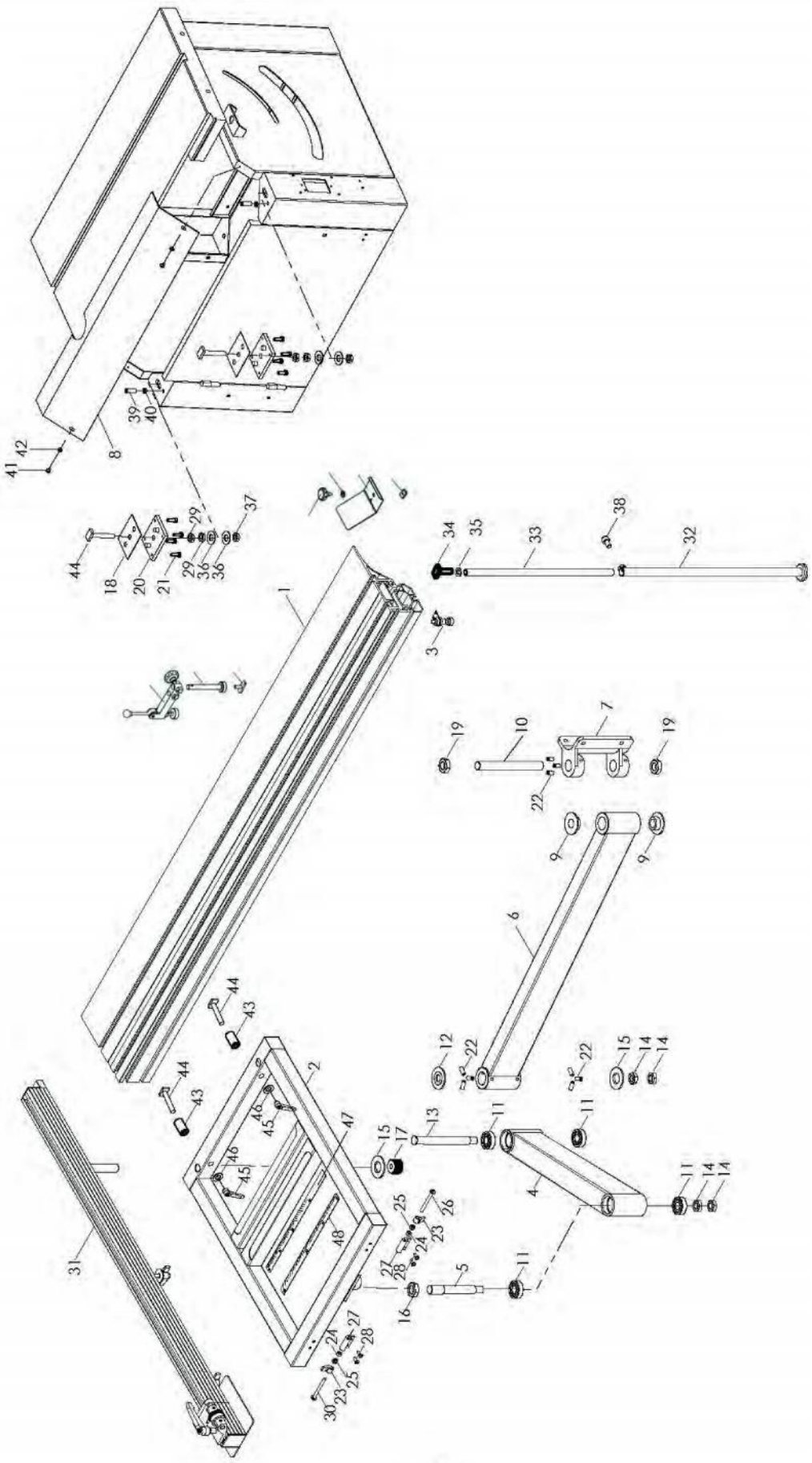
Diagram D



Parts list (Diagram D)

No.	DESCRIPTION	Qty	No.	DESCRIPTION	Qty
D-1	Blade Nut M16(Left Hand)	1	D-54	Knuckle	1
D-2	Outer Blade Flange	1	D-55	Thin Nut M12	2
D-3	Blade	1	D-56	Height Adjustment Rod	1
D-4	A-Belt	1	D-57	Thicken Flat Washer 8	2
D-5	Pulley	1	D-58	Motor	1
D-6	Key	1	D-59	Hex Head Bolt M8X40	4
D-7	Arbor Shaft	1	D-60	Key 8X7X50	1
D-8	Bearing 80203	2	D-61	Allen Head Set Screw M6X9	4
D-9	Arbor Shaft Sleeve	1	D-62	Allen Head Set Screw M6X6	1
D-10	Arbor Shaft Bush	1	D-63	Motor Wheel	1
D-12	Arbor Shaft End Bush	1	D-64	Hex Head Screw M8X24	1
D-14	Spring Washer 6	1	D-65	Single Washer 8	1
D-15	Allen Screw M6X16	1	D-66	Rotation Press Block	9
D-16	Hex Head Screw M8X20	3	D-67	Adjusting Cradle	13
D-17	Flat Washer 8	13	D-69	Hexagon Nut M12	2
D-18	Press Board For Riving Knife	1	D-71	Worm-Wheel	1
D-19	Riving Knife	1	D-73	Hex Head Screw M8X30	1
D-20	Flower Nut	1	D-74	Worm-Wheel Shaft Screw	1
D-21	Flat Washer 6	4	D-75	Locking Block	4
D-22	Step Bolt M6X45	1	D-76	Large Washer 8	1
D-23	Blade Guard	1	D-77	Flower Bolt M8x20	1
D-24	Hexagon Nut M8	13	D-78	Pan Head Screw M5X12	6
D-25	Allen Screw M8X25	4	D-79	Pointer Bracket	1
D-26	Allen Screw M10X30	1	D-80	Pointer	2
D-27	Locking Nut M8	2	D-81	Flat Washer 4	1
D-28	Riving Knife Bracket	1	D-83	Pan Head Screw M4X8	1
D-29	Connecting Rod	1	D-84	Adjusting Worm-Wheel Bracket	1
D-30	Sunk Screw M8X20	1	D-85	Dust Collection Cover	1
D-31	Bush	1	D-86	Allen Head Screw M6X18	1
D-32	Sunk Screw M8X30	1	D-87	Neck Chain	1
D-33	Hex Head Bolt M8X65	1	D-89	Dust Collection Tube	3
D-34	Locking Nut For Motor Base	2	D-91	Sunk Head Tapping Screw ST4.0X25	2
D-35	Motor Base	1	D-92	Spanner Shaft	1
D-36	Allen Screw M6X6	4	D-93	Hexagon Nut M5	5
D-38	Hand Wheel	2	D-95	Lock Nail Bush	1
D-39	Handle	2	D-96	Allen Screw M6X25	1
D-41	Pan Head Screw M6X16	4	D-97	Active Board	1
D-42	Flat Washer 5	2	D-98	Active Board Block	1
D-43	Ball Bracket	2	D-99	Lock Handle	1
D-44	Thread Rod Ball	1	D-100	Handle Sleeve	1
D-45	Spring Colmun Pin 4X25	3	D-101	Lock Handle Spring	1
D-46	Adjusting Thread Rod	1	D-102	Arbor shaft bush	1
D-47	Worm-Wheel Connecting Screw A	1	D-103	Thicken Flat Washer 6	1
D-48	Worm-Wheel Connecting Rod	1	D-104	Spring Colmun Pin 6x10	1
D-49	Worm-Wheel Connecting Screw B	1	D-105	Contact rod bush	1
D-50	Connecting Rod Bush	1	D-106	Screw rod ring	2
D-51	Hex Nut M6	4	D-107	Allen head set screw	4
D-52	Adjusting Frame	1	D-108	Large flat Washer 20	1
D-53	Circlips For Shaft D=24	2	D-109	Sunk Pan head Screw M5x35	1

Diagram E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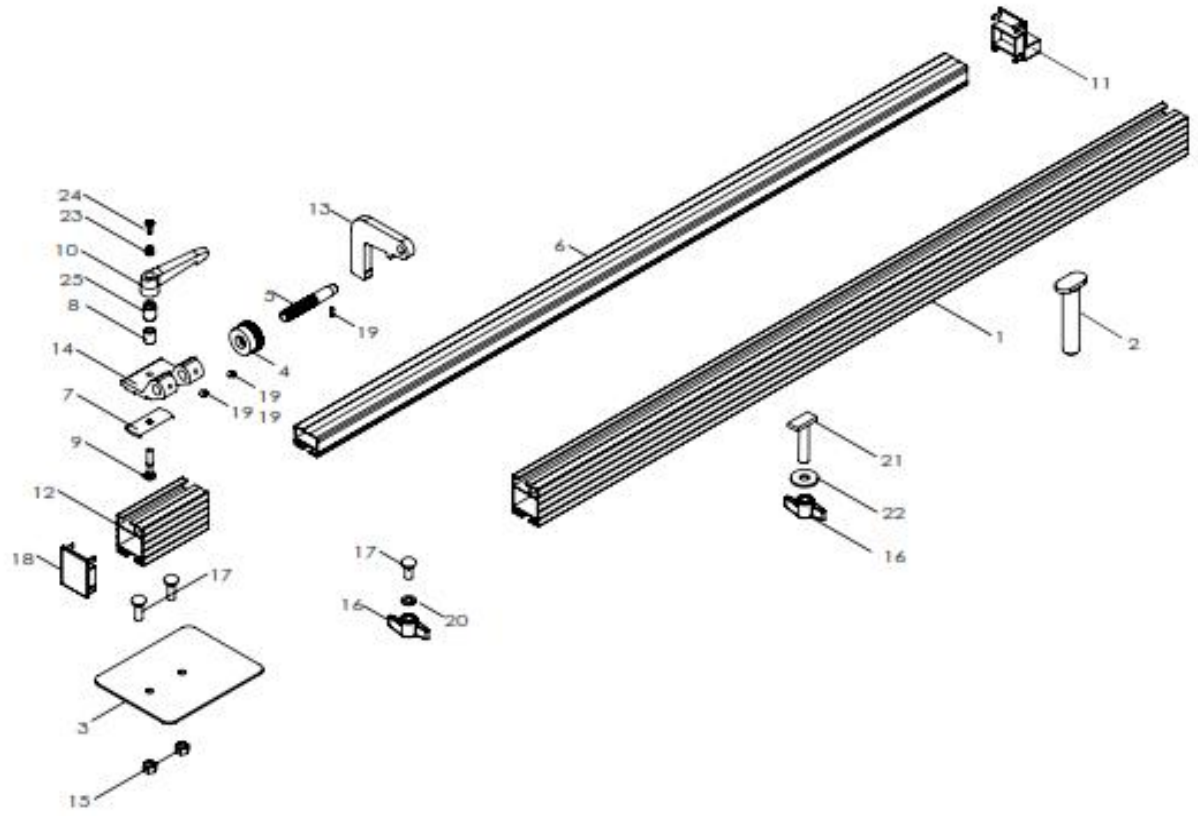
Parts list (Diagram E)

No.	DESCRIPTION	Qty
E-1	Sliding tale	1
E-2	Cross cut table	1
E-3	Locating pin set	1
E-4	Swing arm A	1
E-5	Shaft A, swing arm	1
E-6	Swing arm B	1
E-7	Support, swing arm	1
E-8	Protect plate	1
E-9	Nylon washer	2
E-10	Shaft B, swing arm	1
E-11	Bearing 6203	4
E-12	Gaskets	1
E-13	Shaft C, swing arm	1
E-14	Thin nut M16	4
E-15	Flat washer 20mm	2
E-16	Thin nut M20x1.5	1
E-17	Knurled knob fence	1
E-18	Adjust plate A, sliding table	2
E-19	Thin nut M20x1.5	2
E-20	Adjust plate B, sliding table	2
E-21	Hex blot M6x12	8
E-22	Set screw M8x20	9
E-23	Lock plate	2
E-24	Hex Nut M6	2
E-25	Locking nut M6	2
E-26	Hex bolt M6X50	1
E-27	Position shaft sead	2
E-28	Pan head screw M5x12	6
E-29	Think hex nut M10	4
E-30	Hex bolt M6X60	1
E-31	Cross cut fence assembly	1
E-32	Support rod A	1
E-33	Support rod B	1
E-34	T type blot,leg	1
E-35	Flat washer 10mm	1
E-36	Large washer 10mm	4
E-37	Hex nut M10	2
E-38	Allen screw M8x16	1
E-39	Allen head set screw M8x40	2
E-40	Hex nut M8	2
E-41	Pan head screw M4x8	2
E-42	Large washer 4mm	2
E-43	Bush, cross cut table	2
E-44	T type bolt, sliding table	4
E-45	Ratchet lever	4
E-46	Flat washer 10mm	2
E-47	Scale A	1
E-48	Scale B	1
E-49	Star knob	1
E-50	Washer 10mm	1
E-51	Edge shoe	1
E-52	Nut plate	1
E-53	Hold down assembly	1
E-54	Rod, hold down	1
E-55	T-block	1



Parts list (Diagram F)

No.	DESCRIPTION	Qty	No.	DESCRIPTION	Qty
F-1	Guide rail	1	F-14	Flip stop base	1
F-2	T type bolt,cross cut fence	1	F-15	Hex nut M8	2
F-3	Lock plate	1	F-16	Wing nut M8	2
F-4	Knurled knob	1	F-17	Carriage bolt M8x25	3
F-5	Locating plate shaft	1	F-18	End cap B	1
F-6	Extension fence	1	F-19	Set screw M5x6	3
F-7	Locking plate	1	F-20	Fap washer 8mm	1
F-8	Locking sleeve	1	F-21	Carriage bolt M10X60	1
F-9	Step bolt M6x35	1	F-22	Large flat washer 10mm	1
F-10	Ratchet lever	1	F-23	Sping, ratchet lever	1
F-11	End cap A	1	F-24	Screw,ratchet lever	1
F-12	End,extension fence	1	F-25	Gear M6,ratchet lever	1
F-13	Flip stop	1			

19 KONFORMITÄTSERKLÄRUNG / CERTIFICATE OF CONFORMITY

CE

Inverkehrbringer / Distributor
HOLZMANN MASCHINEN® GmbH
A-4170 Haslach, Marktplatz 4
Tel.: +43 7289 71562-0; Fax.: +43 7289 71562-4
www.holzmann-maschinen.at info@holzmann-maschinen.at

Bezeichnung / name	
	Formatkreissäge / Panel saw
Type / model	
	TS 250F-1600
EG-Richtlinien / EC-directives	
	2006/42/EG 2006/95/EG
Angewandte Normen / applicable Standards	
	EN 60204-1:2006, EN 1870-1:2007+A1:2009, EN 954-1:1996, EN 847-1:2005, EN 847-3:2004, EN ISO 13849-1:2006

Hiermit erklären wir, dass die oben genannten Maschinen aufgrund ihrer Bauart in der von uns in Verkehr gebrachten Version den grundlegenden Sicherheits- und Gesundheitsanforderungen der angeführten EG-Richtlinien entsprechen. Diese Erklärung verliert ihre Gültigkeit, wenn Veränderungen an der Maschine vorgenommen werden, die nicht mit uns abgestimmt wurden.

Hereby we declare that the above mentioned machines meet the essential safety and health requirements of the above stated EC directives. Any manipulation or change of the machine not being explicitly authorized by us in advance renders this document null and void.

Haslach, 22.08.2014
Ort / Datum place/date

HOLZMANN MASCHINEN GmbH
Marktplatz 4, 4170 Haslach
weiterer Standort:
Gewerbepark 8, 4707 Schlüsslberg
www.holzmann-maschinen.at

Klaus Schörgenhuber, Director

Gerhard Brunner
Technische Dokumentation
Technical documentation