SIP Industrial Products Limited
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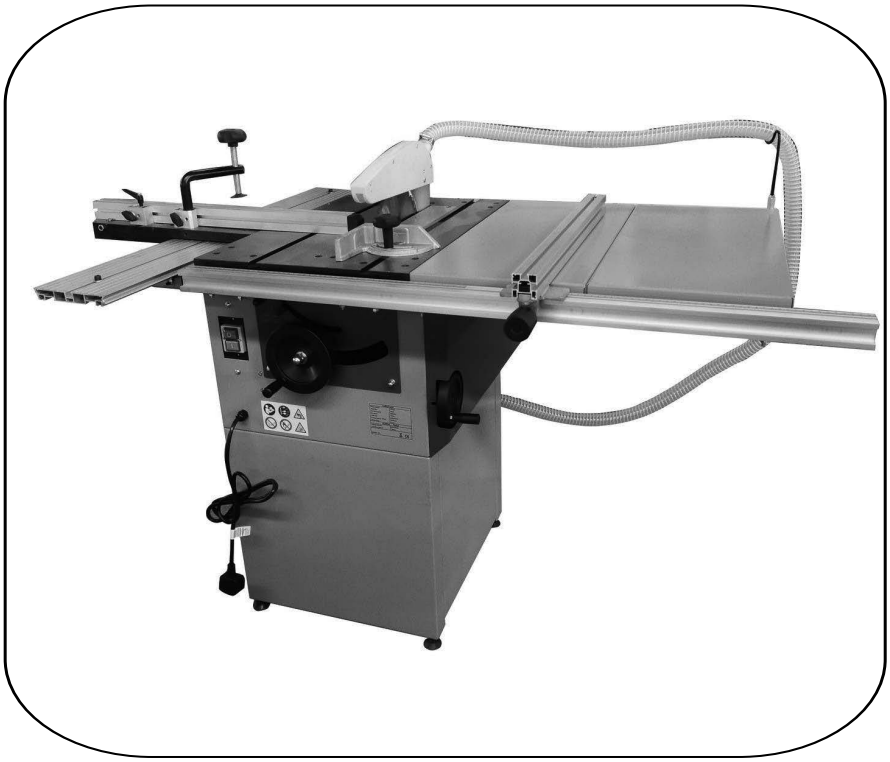
United Kingdom

SIP 10"Compact Cast Iron Table Saw



SIP Code 01480

Manual includes the assembly of the SIP Sliding Table (SIP Code 01481) Optional Purchase.

Please read and fully understand the instructions in this manual before operation. Keep this manual safe for future reference.

For help or advice please contact your distributor, or sip directly on:

Tel.: 01509 500400

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or

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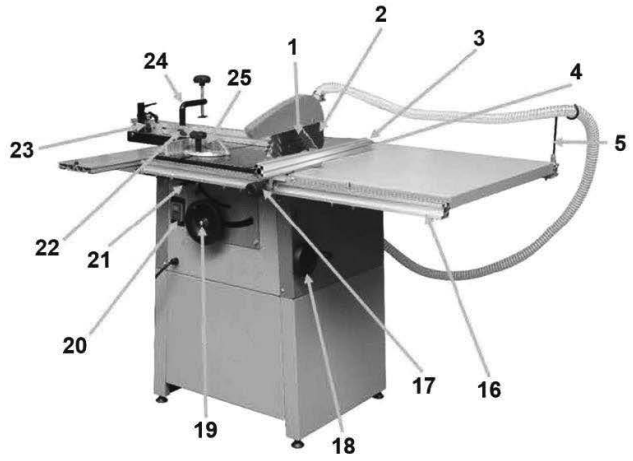
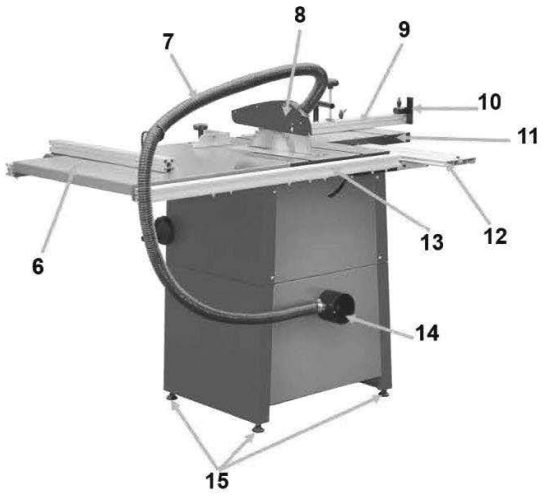
1. Components 01480 SIP 10" Compact Cast Iron Table Saw





1	Saw blade	14	Suction socket
2	Riving knife	15	Machine feet x 4
3	Work table	16	Rip fence guide profile with ruler
4	Rip fence	17	Rip fence bracket
5	Holder for suction hose	18	Handwheel saw blade tilting
6	Table extension	19	Hand wheel height adjustment saw blade
7	Suction hose	20	ON-OFF-switch
8	Saw blade guard	21	Locking handle saw blade tilting
9	Cross-cut fence	22	Connecting block work piece downholder
10	Stopper cross-cut fence	23	Cross-cut fence bracket
11	Sliding table	24	Work piece downholder
12	Sliding table base profile	25	Mitre fence
13	Guide profile without ruler		

2. Technical data

	Spez.	TS10E_230V
Voltage	V/Hz	230 / 50
Motor power S1 100%	W	2200
Table size	mm	635 x 420
Table extension	mm	635 x 580
Sliding table	mm	400 x 250
Main Work table height	mm	840
Main sawblade dimension	mm	254 x 30 x 3.0/1.8
Main sawblade speed	min^{-1}	4000
Sawblade tilt	°	0 - 45
Cutting height at 90°	mm	67 (80)
Cutting height at 45°	mm	45 (65)
Max. cutting width at parallel fence in mm	mm	750
Max. cutting length	mm	570
Dust collector port ø	mm	100 / 70 / 30
Necessary air volume	m^3/h	850
Vacuum dust collector	Pa	800
Net weight	kg	84
Gross weight	kg	98
Machine dimension	mm	1450 x 1000 x 1000
Packaging dimensions (L x W x H)	mm	Box 1: 750x620x510 Box 2: 1110x175x80 Box 3: 740x450x200
Sound power level L_{WA} (ISO 3746)*	dB (A)	99 k=4
Sound pressure level L (ISO11202)*	dB (A)	87 k=4

*** (EN)** Notice noise emission: The values given are emission values and therefore do not have to represent safe workplace values at the same time. Although there is a correlation between emission and immission levels, it cannot be reliably deduced whether additional precautions are necessary or not. Factors influencing the actual immission level at the workplace include the nature of the workspace and other noise sources, i.e. the number of machines and other adjacent operations. The permissible workplace values may also vary from country to country. However, this information should enable the user to make a better assessment of hazard and risk.

This section contains information and important notes on safe commissioning and handling of the machine.

For your personal safety, please read these operating instructions carefully before commissioning. This will enable you to handle the machine safely and prevent misunderstandings as well as personal injury and damage to property. Also observe the symbols and pictograms used on the machine as well as the safety and danger information!

3.1 Intended use of the machine

The machine is intended exclusively for the following activities:
Longitudinal and cross-cutting of wood and materials with similar physical properties to wood, using an effective dust collection system according to technical specifications and within technical limits of the machine.

NOTE

SIP (Industrial Products) Ltd assumes no responsibility or warranty for any other use or use beyond this and for any resulting damage to property or injury.

3.1.1 Technical Restrictions

The machine is intended for use under the following ambient conditions:

Rel. Humidity:	max. 65 %
Temperature (operational)	+5° C bis +40° C
Temperature (Storage, Transport)	-20° C bis +55° C

3.1.2 Prohibited Use / Forseeable Misuse

- Operation of the machine without adequate physical and mental aptitude.
- Operating the machine without knowledge of the operating instructions.
- Changes in the design of the machine.
- Operating the machine in a potentially explosive environment (machine can generate ignition sparks during operation)-
- Operation of the machine in closed rooms without chip and dust extraction (a normal household vacuum cleaner is not suitable as an extraction device).
- Operating the machine outside the limits specified in this manual.
- Remove the safety markings attached to the product.
- Modify, circumvent or disable the safety devices of the machine.
- Cutting of materials with dimensions outside the limits specified in this manual.
- Use of tools which do not meet the safety requirements of the standard for machine tools for woodworking (EN8471).

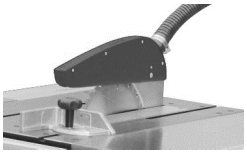
The improper use or disregard of the versions and instructions described in this manual will result in avoiding all warranty and compensation claims against SIP (Industrial Products) Ltd.

3.2 User requirements

The machine is designed for operation by one person. The physical and mental aptitude as well as knowledge and understanding of the operating instructions are prerequisites for operating the machine. Persons who, because of their physical, sensory or mental abilities or their inexperience or ignorance, are unable to operate the machinery safely must not use it without the supervision or instruction by a responsible person.
Basic knowledge of woodworking especially the correlation of wood type, blade, cutting feed and speeds.
Please note that local laws and regulations may determine the minimum age of the operator and restrict the use of this machine!
Put on your personal protective equipment before working on the machine.
Work on electrical components or equipment may only be carried out by a qualified electrician or under the instruction and supervision of a qualified electrician.

3.3 Safety devices

The machine is equipped with the following safety devices:

	• Safety guard (adjustable): saw blade guard is attached to the riving knife to prevent contact with the saw blade.
Riving knife	• This measure is intended to prevent the workpiece from kick back. The setting is in horizontal and vertical direction opposite to the saw blade.
	• Separating protective device (fixed) (Access to motor / belt drive)
Rip fence	• Serves for precise guidance of the workpiece during longitudinal cutting. It is made of destructible material (aluminium). • The adjustment of the rip fence is possible without using tools; the position is read on a ruler.
Push stick	• For cutting operations where less than 120mm is cut, i.e. less than 120mm distance to the right of the saw blade to the rip fence. Do not feed the wood by hand, but with the push stick.

3.4 General safety instructions

To avoid malfunctions, damage and health hazards when working with the machine, in addition to the general rules for safe working, the following points must be observed:

- Before start-up, check the machine for completeness and function. Only use the machine if the guards and other non-parting guards required for machining have been fitted, are in good operating condition and have been properly maintained.
- Choose a level, vibration-free, non-slip surface for the installation location.
- Ensure sufficient space around the machine!
- Ensure sufficient lighting conditions at the workplace to avoid stroboscopic effects!
- Ensure a clean working environment!
- Only use perfect tools that are free of cracks and other defects (e.g. deformations).
- Remove tool keys and other adjustment tools before switching on the machine.
- Keep the area around the machine free of obstacles (e.g. dust, chips, cut parts, etc.).
- Check the strength of the machine connections before each use.
- Never leave the running machine unattended. Switch off the machine before leaving the working area and secure it against unintentional or unauthorised recommissioning.
- The machine may only be operated, serviced or repaired by persons who are familiar with it and who have been informed of the dangers arising in the course of this work.
- Ensure that unauthorised persons maintain a safe distance from the machine and keep children away from the machine.
- Wear close-fitting protective clothing and suitable protective equipment (eye protection, dust mask, ear protection; gloves only when handling tools).
- Hide long hair under hair protection.
- Do not remove any sections or other parts of the workpiece from the cutting area while the machine is running!
- Do not remove splinters and chips by hand!
- Always work with care and the necessary caution and never use excessive force.
- Do not overload the machine!
- Do not work on the machine if you are tired, not concentrated or under the influence of medication, alcohol or drugs!
- Do not use the machine in areas where vapours from paints, solvents or flammable liquids represent a potential danger (danger of fire or explosion!).
- Do not smoke in the immediate vicinity of the machine (fire hazard)!
- Shut down the machine and disconnect it from the power supply before carrying out any adjustment, conversion, cleaning, maintenance or repair work. Before starting any work on the machine, wait until all tools or machine parts have come to a complete standstill and secure the machine against unintentional restarting.

3.5 Electrical safety

- Make sure that the machine is grounded.
- Only use suitable extension cables.
- A damaged or tangled cable increases the risk of electric shock. Handle the cable with care. Never use the cable to carry, pull or disconnect the power tool. Keep the cable away from heat, oil, sharp edges or moving parts.
- Proper plugs and outlets reduce the risk of electric shock.
- Water entry into the machine increases the risk of electric shock. Do not expose the machine to rain or moisture.
- The machine may only be used if the power supply is protected by a residual current circuit breaker.
- Use the machine only when the ON-OFF switch is in good working order.
- Before connecting the machine always make sure that it is switches off.

3.6 Special safety instructions for woodworking machines

- Work with gloves on rotating parts is not permitted!
- During operation of the machine wood dust is generated. Therefore, connect the machine to a suitable dust collection system for dust and chips during installation!
- Always switch on the dust collection system before you start machining the workpiece!
- Never remove sections or other parts of the workpiece from the cutting area while the machine is running.
- Excessive noise can cause hearing damage and temporary or permanent hearing loss. Wear hearing protection certified to health and safety regulations to limit noise exposure.
- Replace cracked and deformed saw blades immediately, they cannot be repaired.
- Use a push stick for cutting operations where less than 120mm is cut, i.e. less than 120mm distance to the right of the saw blade from the rip fence. Do not feed the wood by hand, only with the push stick!
- Select the number of teeth of the saw blade so that at least 2-3 teeth cut through the workpiece at the same time. A lower number of teeth leads on the one hand to an unclean cut, on the other hand the danger of vibrations and noise pollution increases due to increased kickback.

3.7 Hazard warnings

Despite its intended use, certain residual risks remain:

- Risk of injury to fingers and hands from the rotating saw blade if the workpiece is guided improperly.
- Injuries caused by the workpiece being thrown away by improper mounting or guidance, such as working without a stop.
- Danger to health from wood dust or chips. It is essential to wear personal protective equipment such as eye protection and a dust mask. Use a dust collection system!
- Injuries due to defective saw blade. Check the saw blade regularly for damage.
- Risk of electric shock if incorrect electrical connections are used.

Residual risks can be minimized if the "Safety instructions" and the "Intended use" as well as the operating instructions are observed.
Due to the design and construction of the machine, hazardous situations may occur when handling the machines, which are identified as follows in this operating instruction:

DANGER	
	A safety instruction designed in this way indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING	
	Such a safety instruction indicates a potentially hazardous situation which, if not avoided, may result in serious injury or even death.

CAUTION	
	A safety instruction designed in this way indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE	
	A safety notice designed in this way indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Irrespective of all safety regulations, your common sense and appropriate technical suitability/training are and remain the most important safety factor for the fault-free operation of the machine. **Safe working depends first and foremost on you!**

4. TRANSPORT

WARNING	
	Damaged or insufficiently strong hoists and load slings can cause serious injuries or even death. Always check hoists and load slings for sufficient load-bearing capacity and that they are free of obstacles, fasten the loads carefully and never stand under suspended loads.

To ensure proper transport, also observe the instructions and information on the transport packaging regarding centre of gravity, attachment points, weight, means of transport to be used and the prescribed transport position, etc..

Transport the machine in its packaging to the installation site. To manoeuvre the machine in the packaging, a pallet truck or a forklift with appropriate lifting power can be used.

If you transport the machine with a vehicle, make sure that the load is adequately secured!
NOTICE: To transport the machine, you need a forklift truck with the appropriate load capacity and a fork of at least 1200 mm length. The fork of the truck should be positioned under the machine.
After the machine has been assembled, it can be transported for short distances with the transport device or transported by crane or forklift truck using belts of appropriate load capacity and length.

NOTICE: Do not carry the machine at the work tables, these are not designed to withstand the tensile load of the machine weight.

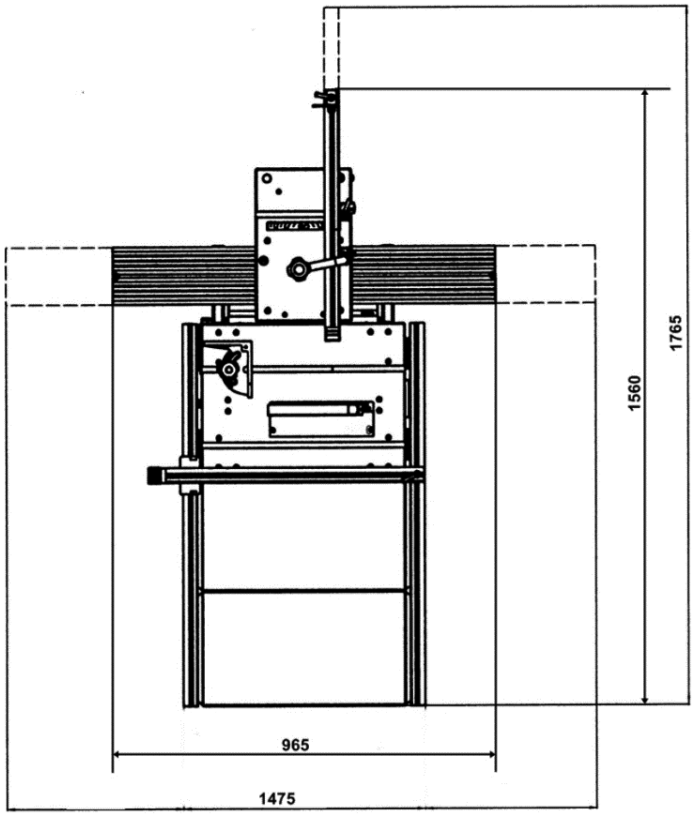
5. ASSEMBLY

5.1 Checking scope of supply

Always note visible transport damages on the delivery note and check the machine immediately after unpacking for transport damage or missing or damaged parts. Report any damage to the machine or missing parts immediately to your retailer or freight forwarder.

5.2 The workplace

Choose a suitable place for the machine.
Pay attention to the safety requirements and the dimensions of the machine.
The selected location must ensure a suitable connection to the electrical supply as well as the possibility of connection to an extraction system. Make sure that the machine is placed on a solid and level surface and that the ground can support the load of the machine. The machine must be levelled at all support points. It is also necessary to guarantee a distance of at least 0.8 m around the machine. In front of and behind the machine, the necessary distance must be provided for the feeding of long workpieces.



5.3 Preparation of the surface

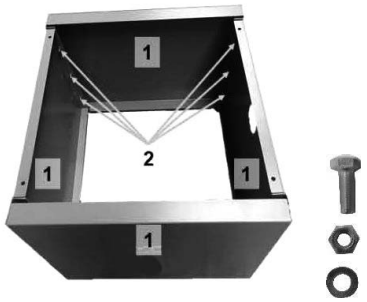
NOTICE
The use of paint thinners, gasoline, corrosive chemicals or abrasive cleaners will result in damage to the surface! Therefore use only mild cleaning agents.

Before you install and commission the machine at the intended location, carefully remove the anti-corrosion protection and grease residues. This can be done with the usual solvents. Under no circumstances should you use nitro thinner or other cleaning agents that could attack the machine's paint.

5.4 Assembling the machine

The machine has been disassembled for transport and must be assembled before use. Follow the instructions below:

WARNING
Handling the machine with the mains supply intact can result in serious injury or death. Therefore, do not connect the machine to the power supply before completing the assembly.

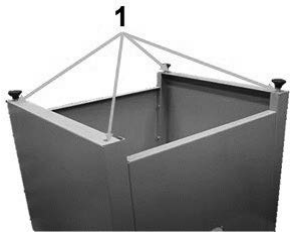


1. Assembly socket

The socket consists of 2 different socket elements (1).

- The socket elements are assembled with 3 screws M6x20, washers and nuts each (2).

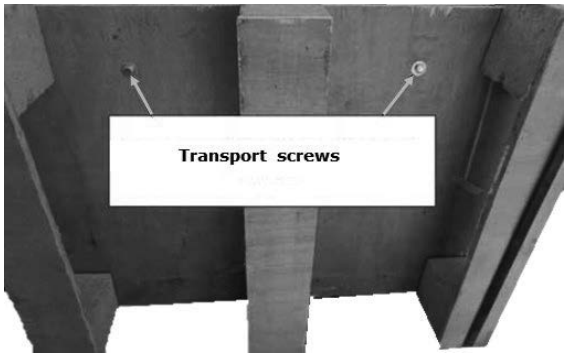
NOTE: Make sure that the threaded holes for the machine feet are located at the bottom.



2. Assembly machine feet

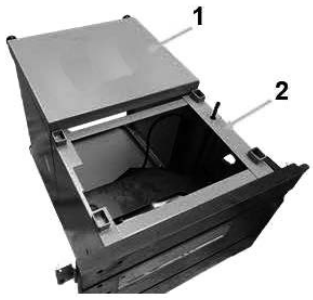
- Screw the 4 machine feet into the threaded holes at the corners of the socket (1).

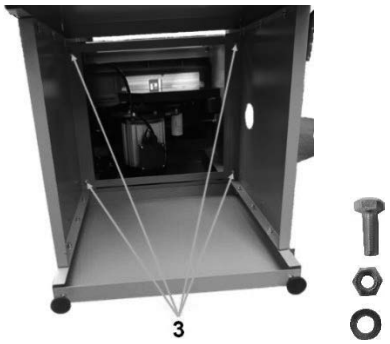
NOTE: Make sure that the machine is aligned horizontally (spirit level).



3. Disassembly of wooden transport base

- Tilt the machine onto a carton base.
- Remove the transport screws with a wrench.
- If the nuts rotate in the machine, it is possible to grip laterally into the machine to secure the nuts against rotation.
- Remove the components, included in the delivery content, from the inside of the machine.



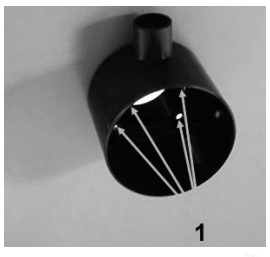


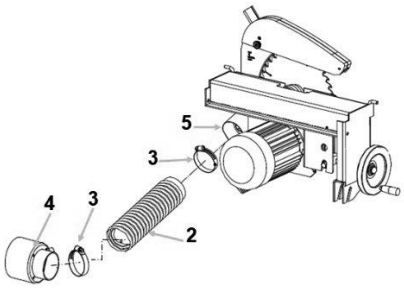
4. Assembly socket on machine

- Because the machine is heavy, it is recommended to tilt the socket (1) and the machine (2) and to connect them while lying on a horizontal surface.

- Socket and machine are connected at the boreholes in the corners (3) with screws M6x20, washers and nuts.

NOTE: The machine is heavy! 2 persons are required to raise the machine.





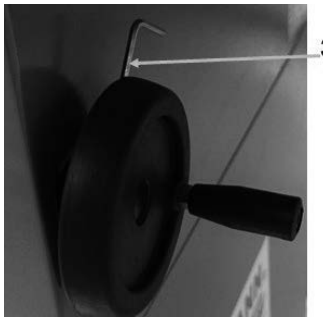
5. Assembly suction hose Ø 70 mm

5.1. Suction socket

- Mount the suction socket laterally on the machine with 4 Phillips screws M5x15, washers and nuts (1).

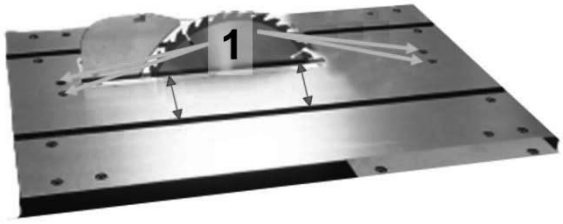
5.2. Suction hose Ø 70 mm

- Attach one end of the suction hose Ø 70 mm (2) with a hose clamp (3) at the suction socket (4) on the inside of the machine.
- Attach the other end of the suction hose Ø 70 mm (2) to the outlet (5) of the lower saw blade guide with a hose clamp (3).



6. Assembly handwheel saw blade tilting

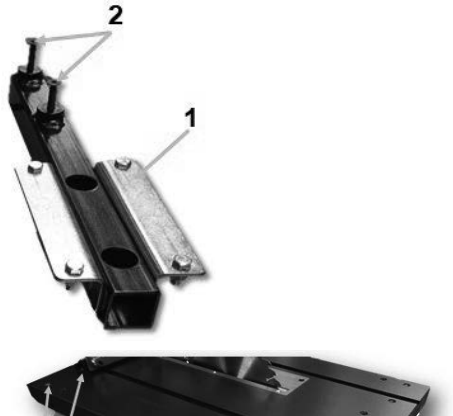
- Place the handwheel for saw blade tilting on the shaft.
- The flattened side at the shaft (1) must be exactly in line with the Allen screw (2) on the handwheel.
- Push the handwheel completely onto the shaft and tighten the Allen screw (2) with Allen key (3).



7. Check saw blade alignment to main table

- The T-slots on the main table must be aligned parallel to the saw blade.
- If the deviation is greater, the following adjustments can still be made.

  1. Loosen the mounting screws (1) and the saw unit parallel by the play of the screws.
  2. Tighten the screws again after the adjustment.



8. Assembly sliding table

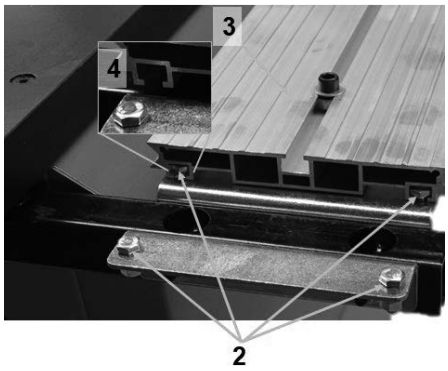
SIP Code 01481 *(Optional)*

8.1. Sliding table brackets

- Unscrew the two screws (2) at the two sliding table brackets (1).
- Insert 2 Allen screws (2) each in the corresponding boreholes (3) on both sides of the worktable (4).
- Position the two sliding table brackets (1) laterally at the underside of the worktable and tighten the Allen screws (2) well at the top using an Allen key.

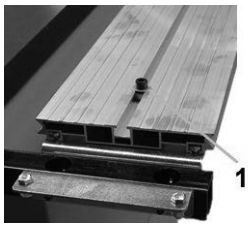
8.2. Sliding table base profile

- Loosen 4 nuts (1) per sliding table bracket.



- Slide the screw heads (2) of both sliding table brackets into the left and right T-slot (4) of the sliding table base profile (3).

- Slightly tighten the nuts (1) in the in the middle position.



8.3. Sliding table

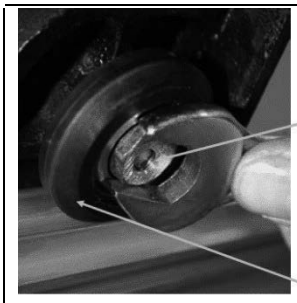
- Loosen the screw to remove the stopper (1) from the sliding table base profile.

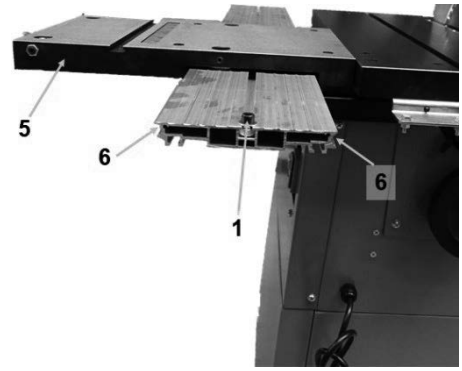
- Loosen the screws (2) on the upper side of the sliding table very slightly.

- Loosen the 4 nuts (3), which fix the guide rolls (4), with a wrench until the largest width is reached.

- The 4 guide rolls on the underside of the sliding table (5) are inserted laterally (6) at the sliding table base plate.
- Tighten the 4 nuts (3) on the underside of the sliding table with a wrench until the sliding table can be moved without any play.

NOTE: Do not overtighten nuts (3) so that the sliding table can still be moved easily!

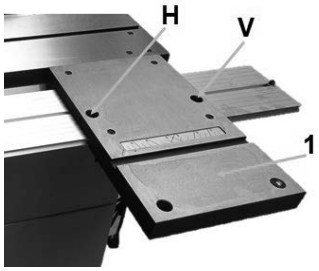


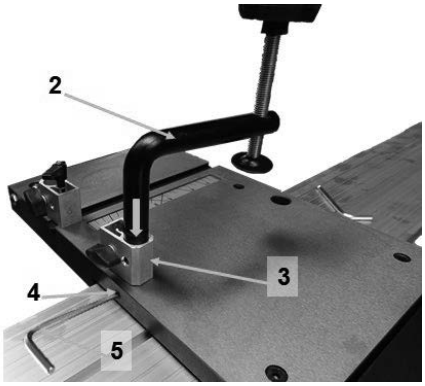


- Tighten the 4 screws (2) on the upper side of the sliding table so that the sliding table can be pushed easily without play.
- Push the stopper (1) back into the T-slot of the sliding table base plate and tighten the screw.

8.4. Align sliding table with work table

- Loosen the 4 nuts (1) on both brackets so that the sliding table base profile still can be moved.
- Level the edge of the sliding table with that of the work table (straight piece of wood / spirit level) until it is horizontally aligned without gaps (2).
- After alignment, tighten all nuts (1) on both sliding table brackets.



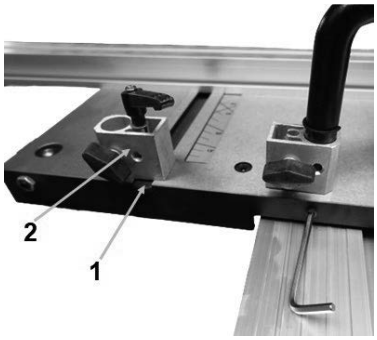


9. Assembly components on sliding table

9.1. Work piece downholder

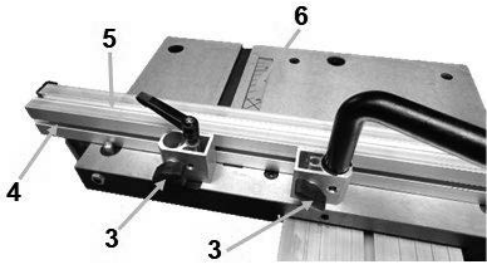
The work piece downholder is used for secure fastening of workpieces.
NOTE: There are 2 positions possible for mounting the work piece downholder on the sliding table (1): (V) for front position and (H) for rear position.

- Insert the work piece downholder (2) with the bracket (3) into the desired position (V) or (H).
- To secure the work piece downholder, tighten the screw (4) with an allen key (5).

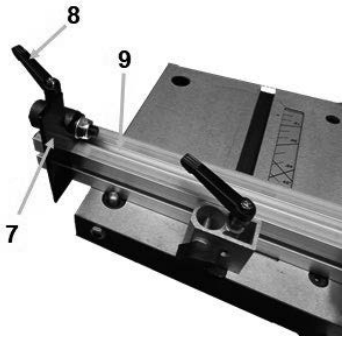


9.2. Cross-cut fence

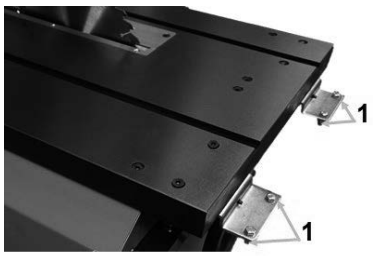
- Push the slot stone of the bracket (2) for the cross-cut fence into the T-slot (1) at the sliding table.

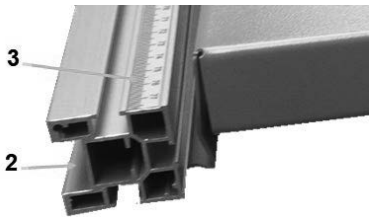


- Loosen the locking screws (3) on the bracket on the work piece downholder and on the bracket for the cross-cut fence.
- Push the slot stones into the T-slot (4) on the cross-cut fence (5).
- Tighten the locking screws (3) again.
- By means of the scale (6) you can set the cross-cut fence at any angle to the saw blade.



- Mount the stopper (7) onto the cross-cut fence.
- Loosen the slot stone of the stopper (7) with the winged screw (8) until it can be inserted into the T-slot (9) of the cross-cut fence.
- The stopper (7) can be moved along the T-slot at the cross-cut fence into the desired position and fixed again with the wing screw (8).



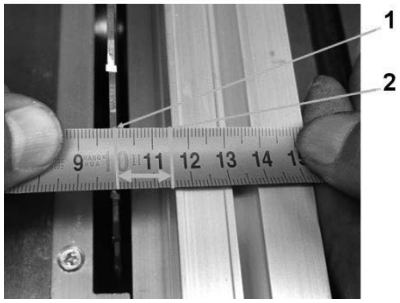


10. Assembly guide profiles

At the work table there are brackets at the front and at the rear where the guide profiles are attached.

- Loosen the nuts (1) of the 2 screws of each bracket until their heads can be inserted into the T-slot of the guide profile.

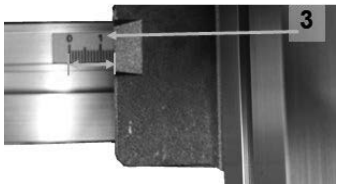
NOTE: Ensure that the wide slot (2) of the guide profiles is located lateral outside and that the ruler (3) of the guide profile for the rip fence faces upwards.



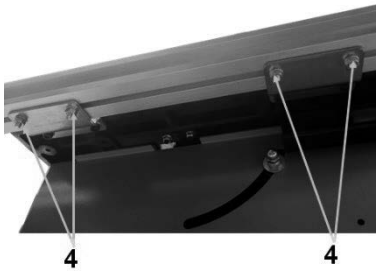
10.1. Adjustment of sliding table

NOTE: Make sure that the measuring scale (3) on the rip fence guide profile is adjusted to the saw blade.

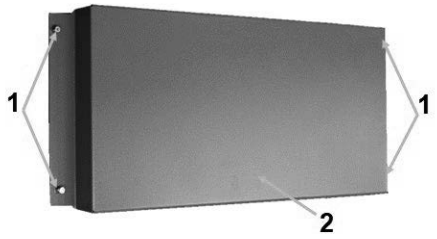
- Measure the distance between saw blade (1) and rip fence (2).



- This measured distance must also be readable on the ruler (3).

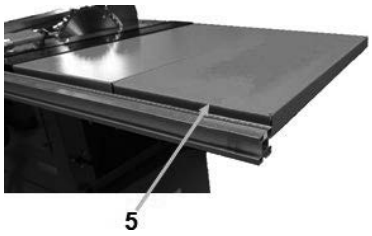


- Then tighten the nuts (4) on the brackets again to fix the guide rail.

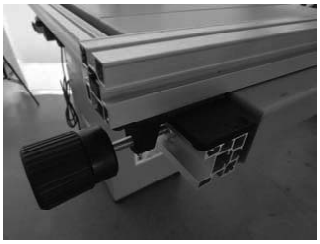


11. Assembly table extension

- Loosen the screws (1) at the table extension (2) so far that they can be inserted into the T-slot (3) of the guide profiles on the left and right.
- Push the first table extension (2) to the main table (4).

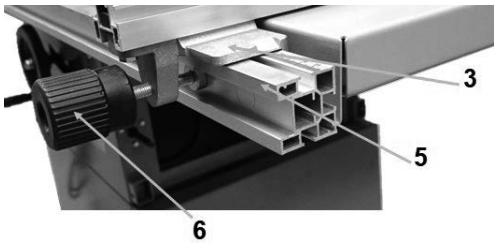


- Mount the second table extension (5) as described above.
- Retighten the screws (1) of the two table extensions.

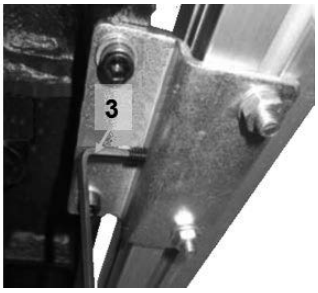


17. Assembly rip fence

- Screw the adapter as shown on the aluminum profile and slide it into the rip fence guide profile.



- Place the bracket (3) of the rip fence on the front guide profile (5).
- The rip fence can be moved along the guide profile to any position and fixed with the screw (6).



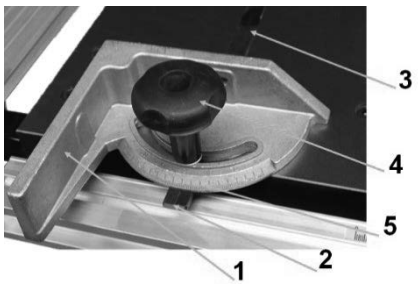
11.1. Adjustment of rip fence

The rip fence must be adjusted so that it is parallel to the saw blade. This can be achieved by adjusting the guide profiles:

- Push the rip fence towards the saw blade.
- If the rip fence is not in exact contact with the saw blade, first loosen the screws (1) on the brackets.
- The guide profile is to be adjusted with the adjusting screw (2).
- At the rear side, the adjusting screw (2) can be screwed in or out further with an Allen key (3) as required.
- Retighten the screws (1).

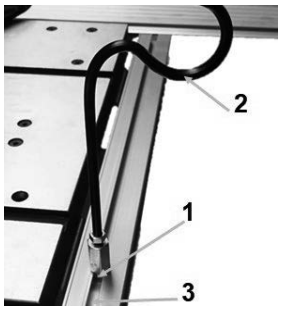
NOTE: Use a wooden strip (with a length of approx. 0.5m) which you can saw through in the length.

- The difference, measured at the ends of the wooden strip, has to be readjusted on the rip fence guide profile.



12. Assembly mitre fence

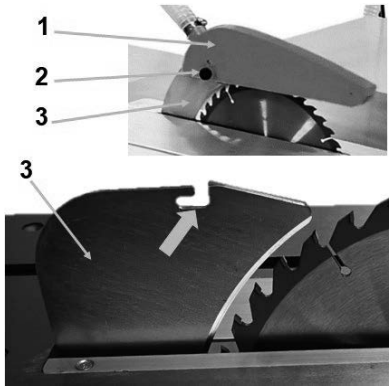
- Insert the slot stone (2) of the mitre fence (1) into the T-slot (3) on the work table.
- The mitre stop (1) can be moved along the T-slot (3) on the work table and fixed in the desired position with the star screw (4).
- The set angle can be read off the scale (5).



13. Assembly holder for the suction hose

The holder of the suction hose (2) can be moved along the T-slot of the rear guide profile and is installed as follows:

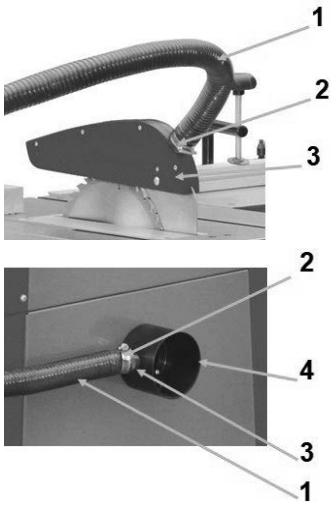
- Loosen the screw (1) that serves as a slot stone, until it can be inserted into the T-slot (3) of the rear guide profile.
- Retighten the screw (1) by turning the holder (2).



14. Assembly saw blade guard

Fix the saw blade guard (1) to the riving knife (3) with the locking screw (2).

NOTE: The saw blade guard should be positioned as close as possible to the workpiece.



15. Assembly suction hose

- Attach the 32 mm suction hose (1) to the saw blade guard (3) with a hose clamp (2), then hook the suction hose into the holder.

NOTE: Ensure that the suction hose is not kinked and that there is sufficient distance between the suction hose and the work area.

- Fasten the other end of the 32 mm suction hose (1) with a hose clamp (2) to the suction socket (3).
- One end of the 100 mm suction hose is attached to the suction socket (4) with a hose clamp (not included in the delivery content).
- The other end of the suction hose is connected to a dust collection system (not included in delivery).

5.5 Electrical connection

WARNING

Dangerous electrical voltage!

→ The machine may only be connected to the mains supply and the associated checks carried out by a qualified electrician or under the instruction and supervision of a qualified electrician!

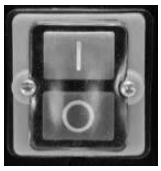
- Check, whether the neutral connection (if existing) and the protective grounding function properly.
- Check, whether the supply voltage and the frequency correspond to the specifications of the machine.

6.1 Initial check before start

- 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 max. speed of the machine is lower than the max. permissible speed of the used saw blade and direction is correct.
- Use only sawblades with a diameter according to technical data.
- Make sure that the inner diameter of the saw blade corresponds to the diameter of the drive shaft.
- Check if the riving knife is correctly adjusted.
- The saw blade guard must be mounted on the riving knife. Working with the machine without saw blade protection guard is prohibited.
- Ensure connection to a dust collection system.

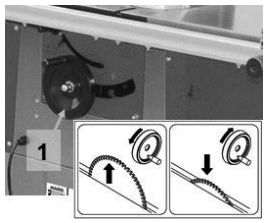
6.2 Operation

6.2.1 Starting/stoping the machine



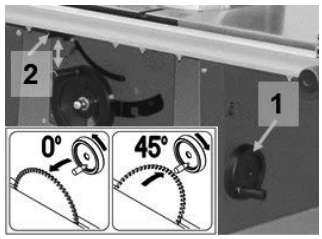
Starting:
Push green ON-button (I)
Stoping:
Push red OFF-button (0)

6.2.2 Saw blade height adjustment



The handwheel for height adjustment (1) is located at the front of the machine. Turn the handwheel anticlockwise to lift the saw blade upwards. Turn the handwheel clockwise to lower the saw blade. The height of the saw blade must be adjusted so that the teeth hit the top of the workpiece.

6.2.3 Adjustment of the saw blade tilt

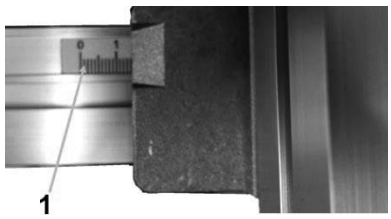


Push the clamping lever (2) down to release the hand wheel. Turn the hand wheel (1) clockwise to tilt the saw blade. Turn the hand wheel anticlockwise to move the saw blade in a vertical position again. The saw blade can be tilted from 0° to 45°. The current position can be seen on the scale. Afterwards push the clamping lever (2) upwards again.

NOTICE

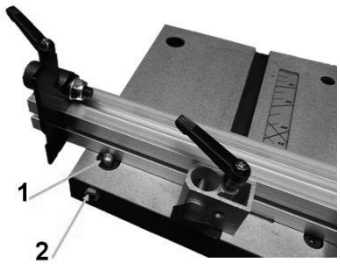
After adjusting the saw blade tilt, adapt the rip fence and/or the cross-cut fence so that they do not become contact with the tilted saw blade.

6.2.4 Adjustment of the cutting width on the rip fence



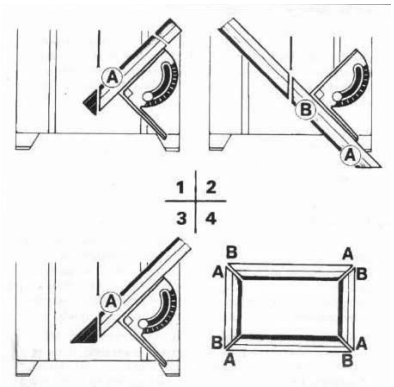
The cutting width can be adjusted on the rip fence and can be read off the ruler (1). The rip fence can be fixed by tightening the star screws.
The rip fence can be mounted on the front or rear guide profile.

6.2.5 Blocking cross-cut fence



The cross stop is secured laterally at the sliding table with a stopper (1) against unintentional movement. With the screw (2) the blocking can be raised or lowered.

6.2.6 Mitre fence

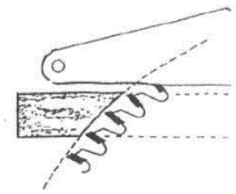


The mitre fence can be inserted into the T-slots of the work table on the right or left side of the saw blade.
By pivoting the mitre fence, cross cuts can be made at all angles (see illustration on the left).

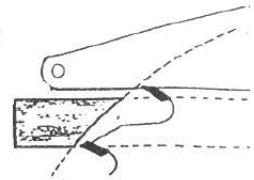
6.3 Notes on using the machine

6.3.1 Selection of the saw blade

Apart from the material of the workpiece, the saw blade teeth play the most important role in achieving precise cuts. The number of teeth, as well as their shape, arrangement and position are associated with a specific function. To enhance the cutting quality, make sure that at least 2-3 teeth cut through the workpiece at the same time. If only one tooth works, a poor working surface results, the risk the vibrations and the noise exposure increases before setback increase:



adequate saw blade



inadequate saw blade

Only work with well-sharpened saw blades.

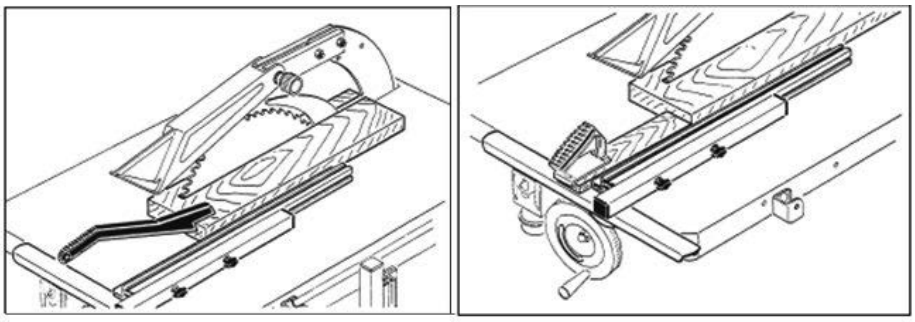
- Adjust the height of the saw blade so that the gear rim is reliably covered by the circular saw blade guard (distance between saw blade guard and workpiece (maximum distance of 5 mm).
- Use the push stick at the end of cutting when the distance between the saw blade and the **ruler** is less than **120 mm.**
- Make sure that the machine works without vibrations.
- Cracked and deformed saw blades cannot be repaired. They must be sorted out immediately as scrap and replaced by proper ones.
- Feed the workpiece evenly, without thrusts and without taking it back, until the end of cutting is reached.

6.3.2 Longitudinal cuts

When performing this operation, the following equipment shall be used for safe working:

- Rip-fence
- the guard of the saw blade
- the riving knife
- the insert in the table

- push stick when cutting small workpieces (distance between saw blade and fence <120mm) and rip-fence with small



NOTICE

When cross-cutting round timber, a template or a holding device is necessary to secure the workpiece against twisting and the use of a suitable saw blade is necessary.

6.3.3 Mitre cuts (cross-cuts) and wedge-cutting

When performing this operation, the following equipment shall be used for safe working:

- Mitre gauge
- the saw blade guard
- the riving knife
- the tableinsert

Cross-cuts:

Mitre cuts in the range 0-90° can be carried out by pressing the workpiece to be cut firmly against the stop surface of the mitre gauge.

Wedge cuts:

To do this, set the rotary part mitre fence to 0° and secure it with the adjusting handle. Position the workpiece and saw through with even pressure.

CAUTION

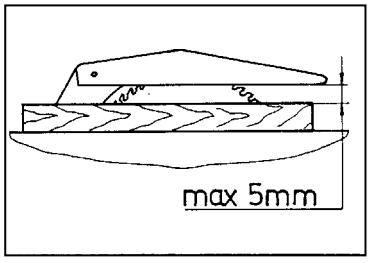
Feed only with the hand on the mitre gauge (hands away from the wood).

WARNING

Only remove workpieces (wedges) after the machine has come to a standstill. To do this, switch off the machine and wait for the saw blade to come to a standstill.

6.3.4 Cutting boards

When performing this operation, the following equipment shall be used for safe working:



- The table extension
- Cross-cut-fence or rip fence with support for the workpiece
- the saw blade guard
- the riving knife
- the workpiece downholder
- the table insert
- push stick when cutting small workpieces
- (distance between saw blade and fence <120mm)

6.4 After working process

NOTICE

After the working process the machine must be turned off:

- Switch off the machine
- Disconnect the machine from the power supply.
- Retract saw blade completely.

WARNING

Danger due to electrical voltage!
Handling the machine with connected power supply may result in serious injury or death.

→ Always disconnect the machine from the power supply before maintenance or repair work and secure it against unintentional reconnection.

7.1 Cleaning

NOTE

Wrong cleaning agents can attack the varnish of the machine. Do not use solvents, nitro thinners, or other cleaning agents that could damage the machine's paint. Observe the information and instructions of the cleaning agent manufacturer!

Regular cleaning is also a prerequisite for the safe operation of the machine and its long service life. Therefore, clean the device after each use and remove dust and dirt. Use personal protective equipment (gloves and eye protection or dust musk). Ensure that the saw blade protection is free from wood residues and sawdust and make sure that you keep the table surface free of resin.

7.2 Maintenance

The machine is low-maintenance and only a few parts have to be serviced. Nevertheless, malfunctions or defects which could impair the safety of the user must be rectified immediately!

- Before each operation, check that the safety devices are in perfect condition.
- Check the connections for a tight fit at least once a week.
- Check regularly that the warning and safety signs on the machine are in good condition and legible.

7.2.1 Maintenance schedule

The type and degree of machine wear depend on the operating conditions. The following intervals apply when the machine is used within the specified limits:

interval	components	activity
Before usage	machine	Cleaning the machine
Before usage	machine	Removal of all loose parts / tools
1 x month	V-Belt tension	Check and readjust belt tension if necessary.
1 x month	Moving parts	Greasing / lubrication of guides / gear racks / wheels
On demand	Saw blade	Exchange saw blade if necessary

CAUTION

Before any manual tool change, stop the spindles, wait for standstill of all tools and prevent an unintentional restart = unplug the power supply.

CAUTION

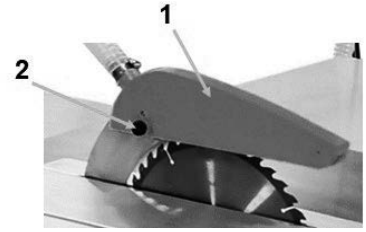
When handling circular saw blades when changing tools, please use safety gloves to avoid risk of injury.

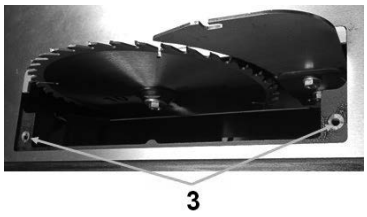
7.2.2 Cleaning the saw blade

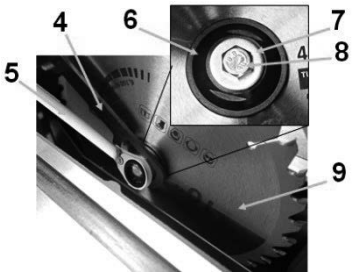
Any deposition of resin on the teeth of the saw blade will cause the saw blade to jam during the processing of a workpiece. For the purpose of maintenance, remove the saw blade from the drive shaft and clean it with white spirit. After cleaning, the saw blade should be sprayed with silicone spray.

NOTE: Never use products containing oil for cleaning, as these will attract dirt. This will cause the saw blade to jam while machining a workpiece.

7.2.3 Assembly/exchange saw blade





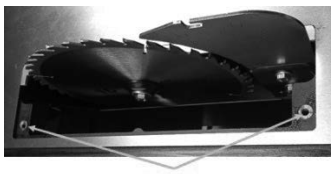


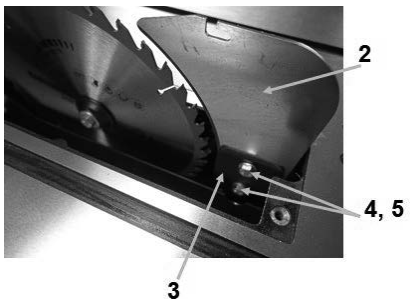
- Adjust the cutting height to the maximum possible level.
- Remove the saw blade guard (1) by slackening off the locking knob (2) and unhooking from the riving knife.
- Loosen the two screws (3) that fix the table insert and remove the table insert.
- Fix the drive shaft at the flange (6) with the supplied flange wrench (4). For this purpose, the flange wrench must be in line with the two flattened sides on the flange.
- Turn the screw (8) with a wrench (5) clockwise (left thread) to loosen it.
- Remove the screw (8) with the washer (7), flange (6) and saw blade (9) from the drive shaft.
- Clean the drive shaft and the flange (6) thoroughly from impurities.
- Replace the old saw blade with a new one.
- Make sure that the new saw blade is undamaged and not dirty.
- Place the saw blade (9) and the flange (6) on the drive shaft.
- Screw the screw (8) with washer (7) back onto the drive shaft, fix it (tightening torque: 25Nm) with the flange wrench (4) and tighten it counterclockwise with the wrench (5).

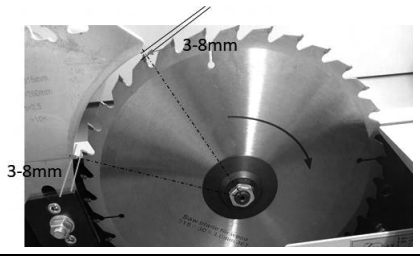
NOTE Retighten the nut tightly to prevent the nut from loosening during operation.

- Replace the table insert and retighten the two screws (3) to hold it in place.
- Fit the saw blade guard (1) on the riving knife.

7.2.4 Assembly / adjustment riving knife







The riving prevents the teeth on the rear circumference of the saw blade from touching the workpiece and causing unintentional damage or ejection.

- Loosen the two screws (1) that fix the table insert and remove the table insert.
- Place a washer (4) on the thread of the screws (5), an outer clamping plate (3) the riving knife (2) and the inner clamping plate.
- Then, tighten the screws (5) slightly in the boreholes provided.
- Adjust the distance between saw blade and riving knife.

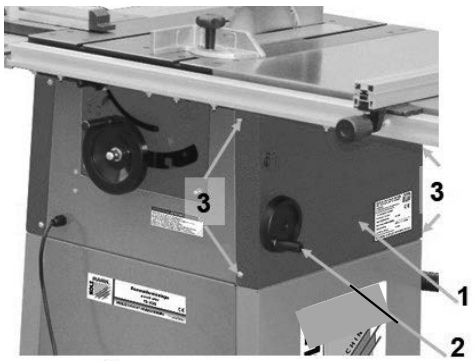
NOTE: The distance between the saw blade and the riving knife must be within 3-8mm. This procedure should be repeated each time the saw blade is replaced.

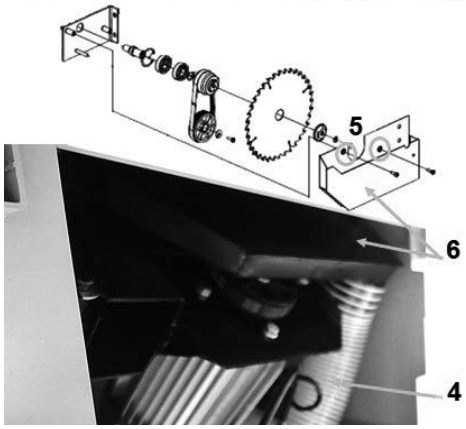
NOTE: Check with the rip fence whether the riving knife is parallel to the saw blade.

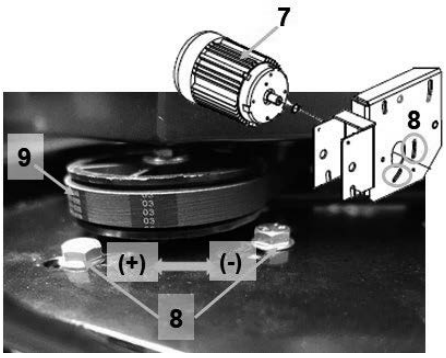
- Finally tighten (tightening torque: 25Nm) the screws (4, 5).
- Reinsert the table insert and fix it with 2 screws (1).

7.2.5 Checking / adjusting / replacing V-Belt

The V-belt tension is set correctly for new machines ex-factory. By stretching the belts over the running time, retensioning of the V-belt is necessary.

<table>
<tr>
<td> 




</td>
<td><u>Changing the belt:</u>
• Dismount the saw blade and the riving.
• Remove the side cover (1) to gain access to the belt. For this, disassemble the hand wheel (2) and remove 4 screws (3) of the cover (1).

• Remove the suction hose (4) from the lower saw blade guard (6).
• Remove the saw blade guard by loosening the 2 screws (5).

• By loosening the 2 nuts (8), the motor position can be adjusted.
• Move the motor (7) upwards (-) to release the V-belt (9).
• Now the V-belt can be changed.
• After changing the belt and adjusting the tension correctly, reassemble the previously disassembled components:
  • Lower saw blade guard
  • Suction hose
  • Saw blade
  • Riving knife + saw blade guard
  • Cover
• Then establish correct V-belt tension again.</td>
</tr>
<tr>
<td><u>Increase V-belt tension:</u>
Loosen the 4 nuts (8) now the motor can be shifted in the direction (+) of more V-belt tension.
When correct tension is reached. Tighten the 4 nuts (8) firmly again.</td>
<td><u>Decrease V-belt-tension:</u>
Loosen the 4 nuts (8) now the motor can be shifted in the direction (-) of less V-belt tension.
When correct tension is reached. Tighten the 4 nuts (8) firmly again.</td>
</tr>
</table>

7.3 Storage

NOTE	
	Improper storage can damage and destroy important machine parts. Store packed or unpacked parts only under the intended ambient conditions!

7.4 Disposal

Observe the national waste disposal regulations. Never dispose of the machine, machine components or equipment in residual waste. If necessary, contact your local authorities for information on the disposal options available.
If you buy a new machine or an equivalent device from your specialist retailer, he is obliged in certain countries to dispose of your old machine properly.

8. TROUBLESHOOTING

WARNING

Danger due to electrical voltage!
Handling the machine with connected power supply may result in serious injury or death.

→ Always disconnect the machine from the power supply before maintenance or repair work and secure it against unintentional reconnection.

Many possible sources of error can be excluded in advance if the machine is properly connected to the mains. If you are unable to carry out necessary repairs properly and/or do not have the required training, always consult a specialist to correct the problem!

Trouble	Possible cause	Solution
Machine does not start	1. Switch or a phase is broken	1. Repair the defective circuit or the faulty phase
Motor switches itself off	1. Machine overheated 2. Machine overloaded	1. Contact an electrician 2. Feeding too rapid Saw blade is dull
Machine vibrates during operation	1. Clamping lever for fixation of saw blade tilt is insufficiently fixed 2. The hand wheel for saw blade tilting is insufficiently fixed	1. Fix the clamping lever 2. Fix the hand wheel for saw blade tilting
Machine makes unusual noises	1. Bearings 2. V-belt loose	1. Inspect bearings, if necessary replace them 2. Check the tension of the V-belt, retighten if necessary
The saw blade height is difficult to adjust	1. The high of the spindle is difficult to adjust	1. Clean and lubricate the threaded rod, gears and slideways thoroughly. 2. Check the function of the clamping lever
Saw blade becomes blunt quickly	1. Contaminated wood processed (cement, nails, sand)	1. Only process perfect material
Burn marks on the workpiece	1. The saw blade is blunt 2. Saw blade is not mounted correctly	1. Replace the saw blade 2. Check and, if necessary, correctly mount the saw blade
Broken edges on the workpiece	1. The saw blade or work tables are incorrectly adjusted 2. Saw blade is incorrectly mounted	1. Adjust the saw blade or work tables 2. Check and, if necessary, correctly mount the saw blade
The finished dimension of the processed workpiece does not correspond to the cutting width set on the rip fence	1. The ruler for the cutting width display at the rip fence is set incorrectly	1. Setting dimension scale: Cut the workpiece at the rip fence, measure the workpiece and move the measuring scale so that the correct cutting width can be read off at the edge of the ruler
Workpiece jams while feeding	1. The saw blade is blunt The work table is not clean The riving knife thickness does not match with the saw blade used	1. Replace the saw blade 2. Clean the worktable 3. Riving knife thickness must be greater than or equal to the saw blade thickness
Wood is raised by the rear side of the saw blade	1. Rip fence not correctly adjusted 2. The riving knife is not correctly aligned 3. Saw blade does not match with riving knife	1. Adjust rip fence 2. Adjust riving knife 3. The saw blade must be narrower in relation to the riving knife

9. WIRING DIAGRAM

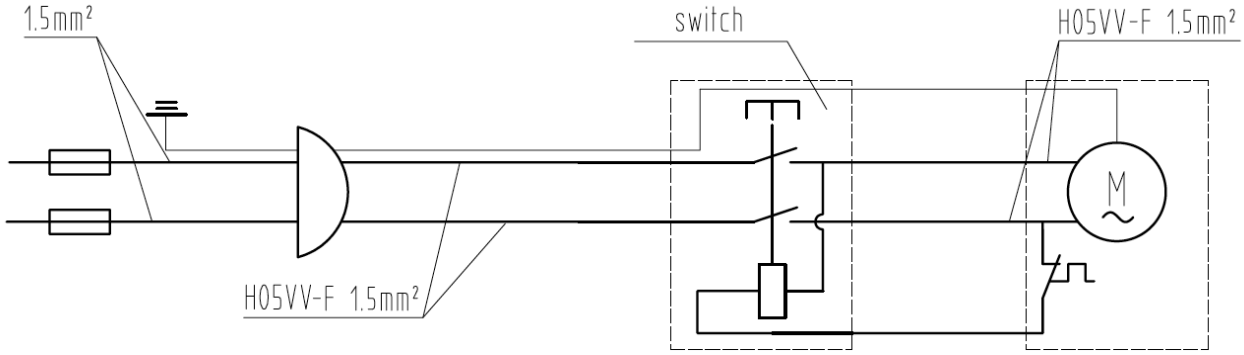
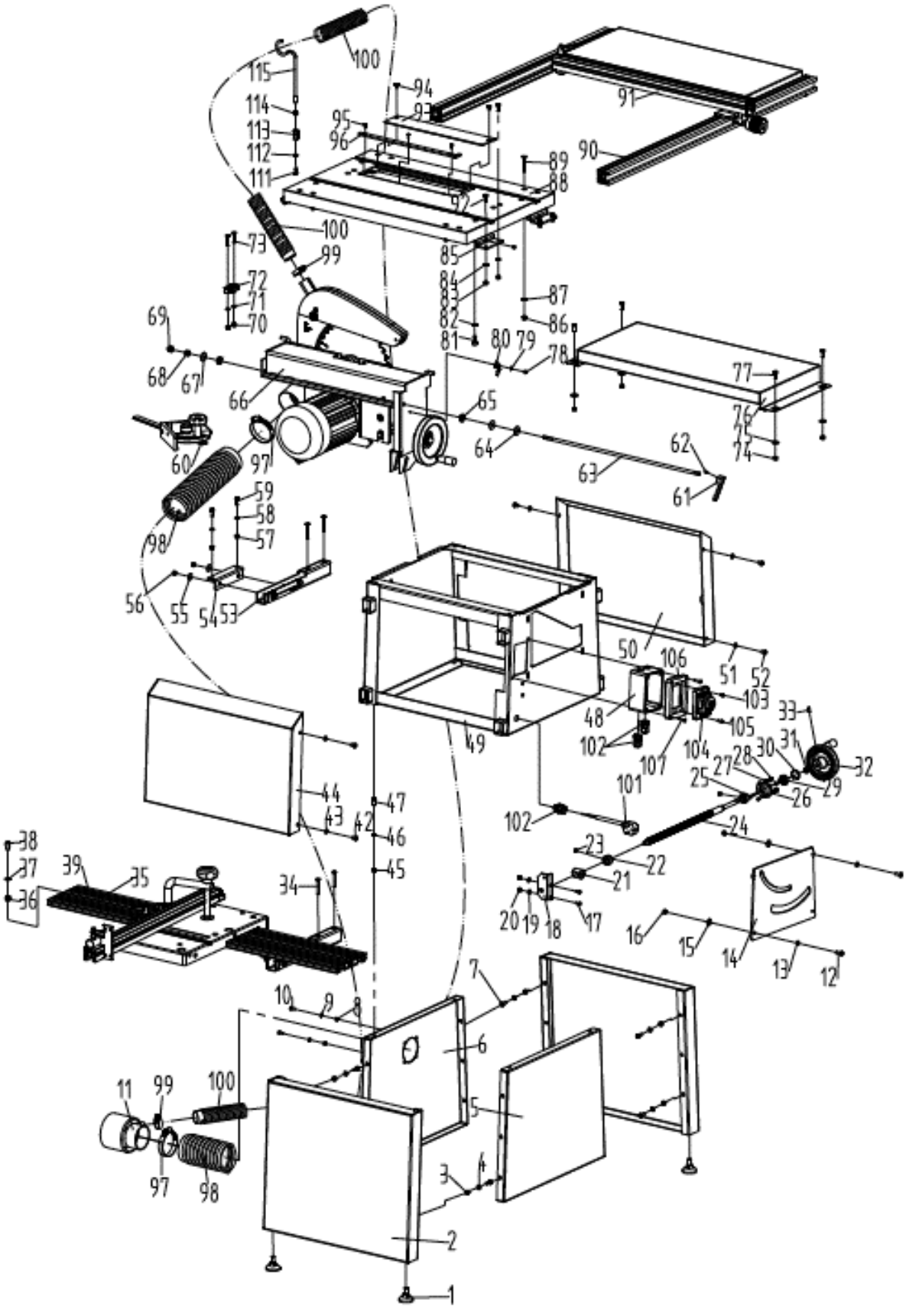


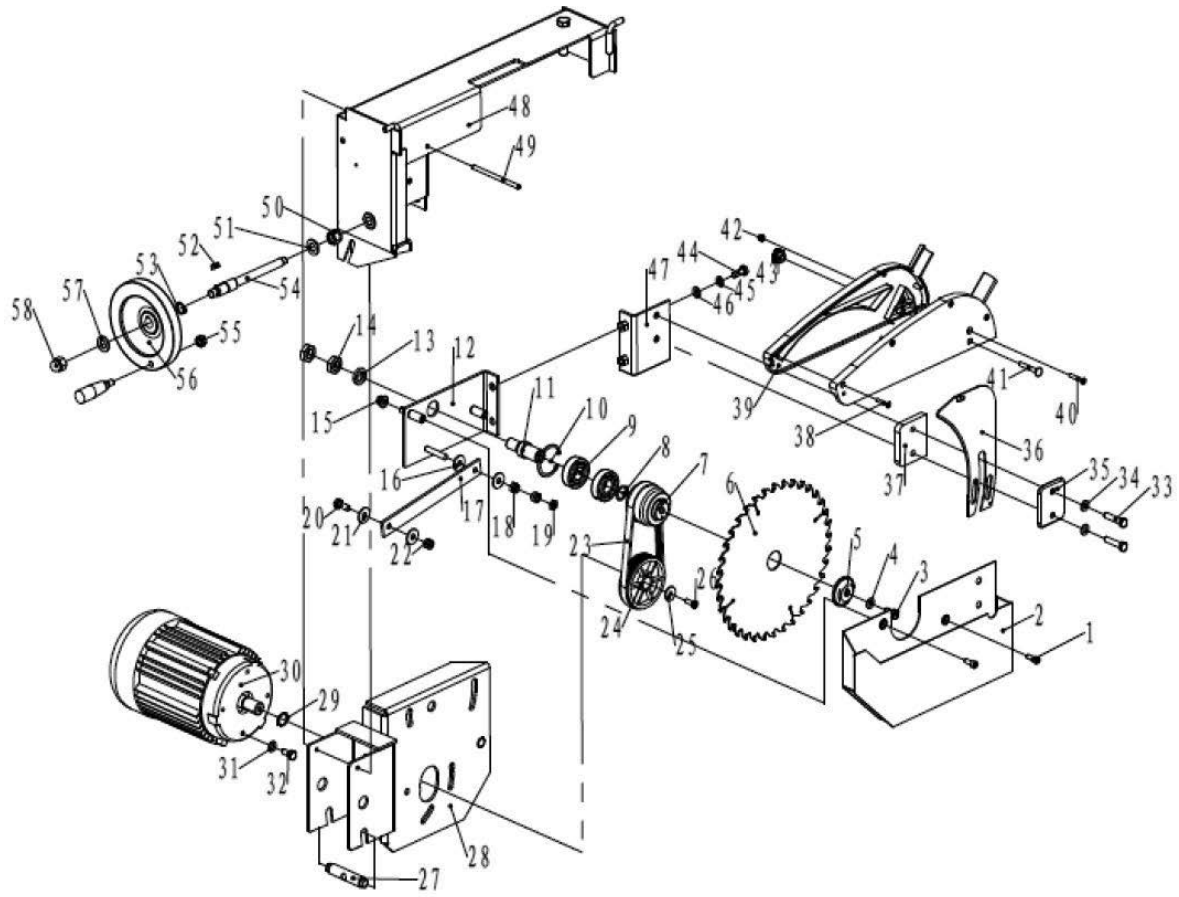
Diagram A-Base unit



11. PARTS LIST

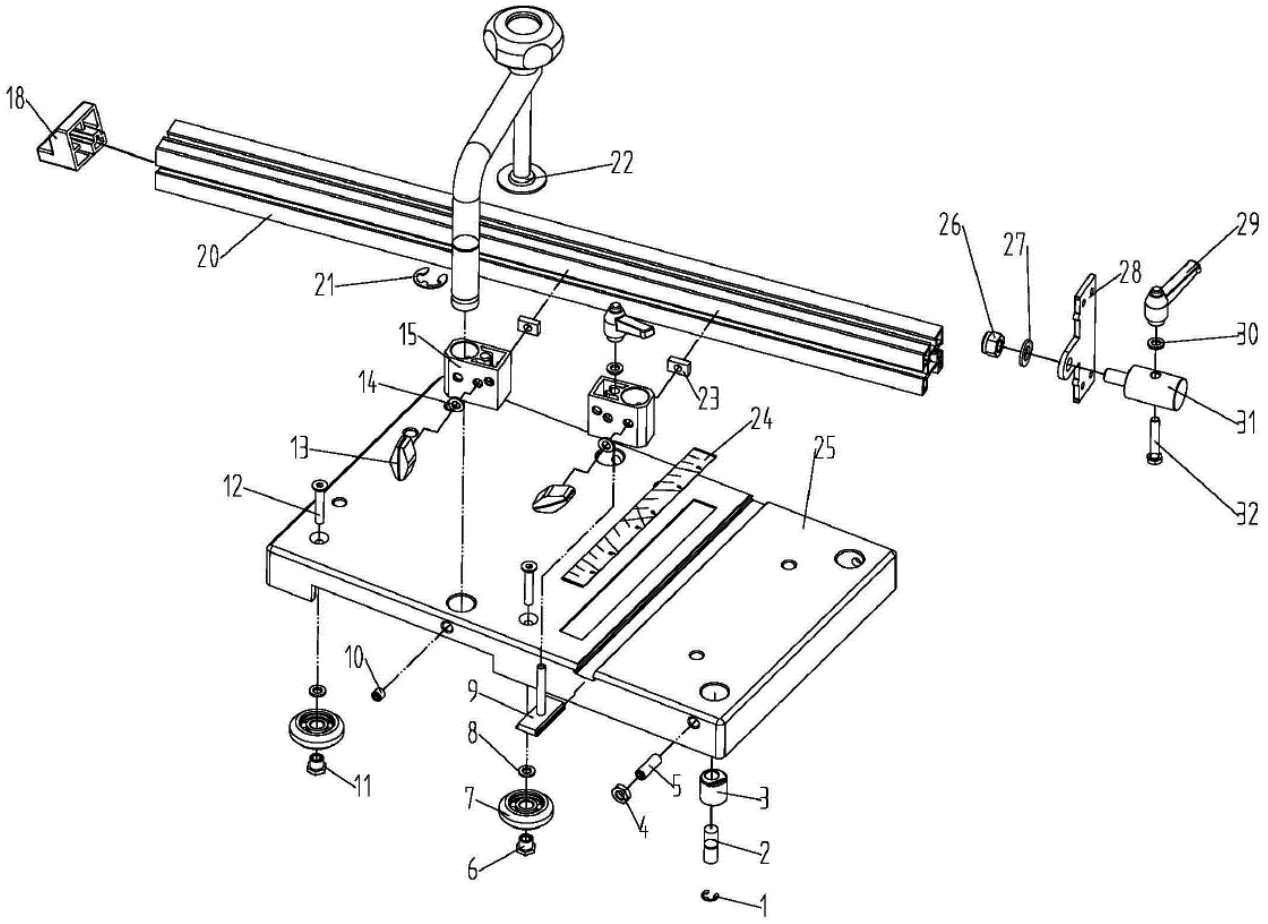
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	Underprop	4	**2**	Supporting plate	2
3	Hex nut M6	12	**4**	Washer Ø6	12
5	Linking plate I	1	**6**	Linking plate II	1
7	Hex bolt M6X20	12	**8**	Hex nut M5	4
9	Washer Ø5	4	**10**	Phillips screw M5X15	4
11	Three-way pipe	1	**12**	Screw M6X16	4
13	Washer Ø6	4	**14**	Saw faceplate	1
15	Big washer Ø6	4	**16**	Hex nut M6	4
17	Screw M5X14	2	**18**	Threaded shaft support	1
19	Washer Ø5	2	**20**	Hex locking nut M5	2
21	Threaded nut	1	**22**	Limitative bush	2
23	Set screw M8X6	2	**24**	Threaded shaft	1
25	Set screw M5X8	2	**26**	Bearing rack	1
27	Washer Ø5	3	**28**	Hex bolt M5X12	3
29	Bearing 6000	1	**30**	“C” ring Ø26	1
31	C ring Ø10	1	**32**	Hand wheel	1
33	Set screw M6X12	1	**34**	Screw M6X45	4
35	Sliding table assembly	1	**36**	Hex nut M8	2
37	Washer Ø8	2	**38**	Screw M8X10	2
39	Guide rail	1	**40**	Screw M6X16	2
41	Washer Ø6	2	**42**	Screw M6X10	4
43	Washer Ø6	4	**44**	Protective cover	1
45	Hex nut M6	4	**46**	Washer Ø6	4
47	Hex bolt M6X20	4	**48**	Switch box	1
49	Box assembly	1	**50**	Protective cover	1
51	Washer Ø6	4	**52**	Screw M6X10	4
53	Outstretched arm	2	**54**	Angle iron	4
55	Big washer Ø6	8	**56**	Hex nut M6	8
57	Hex nut M6	8	**58**	Washer Ø6	8
59	Hex bolt M6X16	8	**60**	Miter gauge	1
61	Locking handle	1	**62**	Pin 3X12	1
63	Locking shaft	1	**64**	Big washer Ø8	2
65	Space bush	2	**66**	Saw assembly	1
67	Big washer Ø8	1	**68**	Hex locking nut M8	1
69	Hex nut M8	1	**70**	Hex nut M6	4
71	Washer Ø6	4	**72**	Supporting rear	2
73	Screw M6X30	4	**74**	Hex nut M6	8
75	Big washer Ø6	8	**76**	Extending table	2
77	Hex bolt M6X16	8	**78**	Screw M4X6	1
79	Tooth washer 4	1	**80**	Pointer	1
81	Screw M6X16	8	**82**	Washer Ø6	8
83	Hex nut M6	8	**84**	Washer Ø6	8
85	Supporting plate	4	**86**	Hex locking nut M6	4
87	Washer Ø6	4	**88**	Main table	1
89	Screw M6X45	4	**90**	Vertical fence	2
91	Fence assembly	1	**92**	Hex bolt M6X16	8
93	Insert	1	**94**	Screw M6X10	2
95	Screw M4X10	3	**96**	Aluminous plate	1
97	Throat banding Ø70	2	**98**	Dust tube Ø70	1
99	Throat banding Ø32	2	**100**	Dust tube Ø32	1
101	Plug	1	**102**	Tightener M16	1
103	Screw ST3.8X10	2	**104**	Switch	1
105	Screw ST3.8X16	4	**106**	Switch cover	1
107	Hex nut M5	4	**108**	Switch fixing plate	2
109	Screw M5X12	4	**110**	Tightener M16	2
111	Hex bolt M6X12	1	**112**	Washer 6	1
113	Connecting bolt	1	**114**	Hex nut M6	1
115	Pick rod	1			

Diagram B-Saw unit



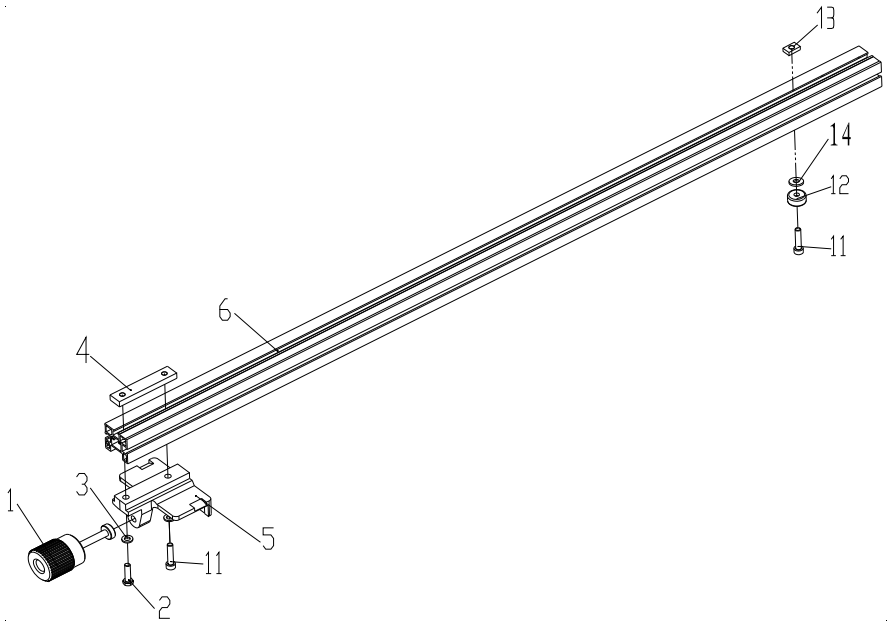
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	Screw M6X16	2	**2**	Dust collector	1
3	Hex bolt M8X16	1	**4**	Washer Ø8	1
5	Platen	1	**6**	Saw blade	1
7	Driven pulley	1	**8**	"C"ring Ø20	1
9	Bearing 6204	2	**10**	"C"ring Ø47	1
11	Saw axis	1	**12**	Parallel plate	1
13	Spring washer 16	1	**14**	Thin hex nut M16	2
15	Hex nut M8	2	**16**	Large washer Ø8	2
17	Connecting plate	1	**18**	Hex locking nut M8	2
19	Thin hex nut M8	1	**20**	Hex bolt M8X20	1
21	Large washer Ø8	2	**22**	Hex locking nut M8	1
23	Cuneal belt	1	**24**	Motor pulley	1
25	Very large washer Ø6	1	**26**	Hex bolt M6X16	1
27	Turning pole	1	**28**	Motor rack	1
29	"C"ring Ø19	1	**30**	Motor	1
31	Washer Ø8	3	**32**	Hex bolt M6X16	3
33	Hex bolt M8X35	2	**34**	Washer Ø8	2
35	Clamp plate	1	**36**	Riving wedge	1
37	Clamp plate	1	**38**	Screw 3.5X25	4
39	Exterior dust collector	1	**40**	Screw M5X30	1
41	Round bolt M6X40	1	**42**	Hex locking nut M5	1
43	Locking nut	1	**44**	Hex bolt M8X20	2
45	Spring washer 8	2	**46**	Washer Ø8	2
47	Parallel plate	1	**48**	Turning support	1
49	Pin 8X110	1	**50**	Hex locking nut M12	1
51	Washer Ø12	1	**52**	Key 5X15	1
53	"C"ring Ø16	1	**54**	Bolt shaft	1
55	Hex nut M8	1	**56**	Hand wheel	1
57	Washer Ø12	1	**58**	Hex nut M12	1

Diagram C-Sliding table



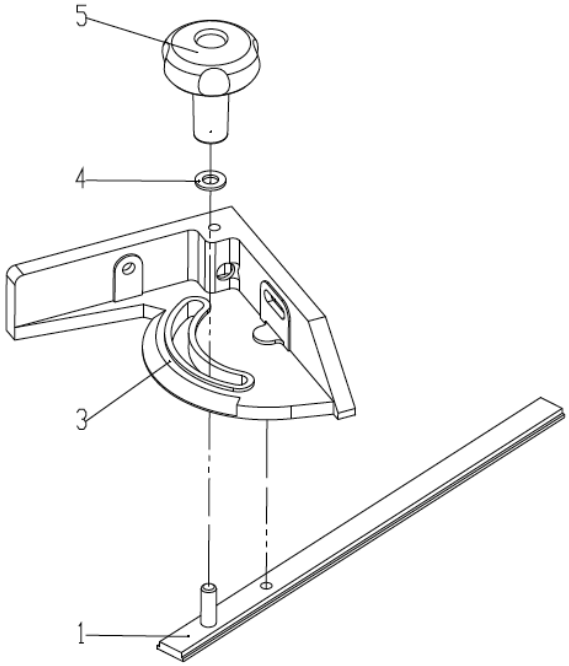
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	C-shaped ring	1	**2**	Sliding axle	1
3	Eccentric bush	1	**4**	Hex thin nut M8	1
5	Set screw M8X25	1	**6**	Eccentric nut	2
7	Trolley	4	**8**	Washer Ø6	4
9	T-shaped bolt	1	**10**	Set screw M8X10	1
11	Homocentric nut	2	**12**	Screw M6X35	4
13	Rhombic handgrip	2	**14**	Washer Ø6	3
15	Connecting block	2	**18**	Plastic block	1
19	Hex bolt M6X25	1	**20**	Angle fence	1
21	“E” ring Ø12	1	**22**	Press handle	1
23	Hex nut M6	2	**24**	Angle.ruler	1
25	Sliding table	1	**26**	Locking nut M10	1
27	Washer Ø10	1	**28**	Turing plate	1
29	Small handgrip	2	**30**	Washer Ø6	1
31	Locating pole	1	**32**	Hex bolt M6X35	1

Diagram D-Rip fence



NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	Locking handle	1	**2**	Hex bolt M6X25	1
3	Washer ϕ6	1	**4**	Fixing plate	1
5	Locking bracket	1	**6**	Long fence	1
11	Socket cap screw M6X30	2	**12**	Rubber tray	1
13	Hex nut M6	1	**14**	Large erϕ6	1

Diagram E-Mitre gauge



NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	T-shaped plate	1	**4**	Washer Ø8	1
3	Miter gauge	1	**5**	Long handle	1

15. UK - DECLARATION OF CONFORMITY

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer within England, Scotland and Wales, we declare that the

SIP 10" Compact Cast Iron Table Saw Item No. 01480

Conforms to the requirements of the following regulation(s), as indicated:

Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016
The Restriction of use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

And the following harmonised standard(s):

BS EN IEC 55014-1:2021
BS EN IEC 55014-2:2021
BS EN 61000-3-2:2019+A1:2021
BS EN 61000-3-3:2013+A1:2019+A2:2021
BS EN 62841-1:2015+AC:2015
BS EN IEC 62841-1:2014+C1:2014+C2:

Signed. 

Mr. Paul Ippaso
Managing Director
SIP (Industrial Products) Ltd
Date: 10 July 2023

UK CA

16. EU - DECLARATION OF CONFORMITY

We

SIP Machinery Europe Ltd
Quayside Business Park
Dundalk
County Louth

As the manufacturer within England, Scotland and Wales, we declare that the
SIP 10" Compact Cast Iron Table Saw Item No. 01480

Conforms to the requirements of the following directive(s), as indicated:

2006/42/EU	Machinery Directive
2014/30/EU	Electro-Magnetic Compatibility Directive
2011/65/EU & 2015/863/EU	RoHS Directive

And the following harmonised standard(s):

EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021
EN 62841-1:2015+AC:2015
EN IEC 62841-1:2014+C1:2014+C2:2015

Signed.
Mr. Paul Ippaso
Managing Director
SIP (Industrial Products) Ltd
Date: 10 July 2023

Please dispose of packaging for the product in a responsible manner. It is suitable for recycling.

Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.

Never dispose of electrical equipment or batteries in with your domestic waste.

If your supplier offers a disposal facility please use it or alternatively use a recognised recycling agent.

This will allow the recycling of raw materials and help protect the environment.

For help or advice please contact your distributor, or sip directly on:

Tel.: 01509 500400

Email:

sales@sip-group.com

or

customerservice@sip-group.com

www.sip-group.com

Ref: 07JULY2023