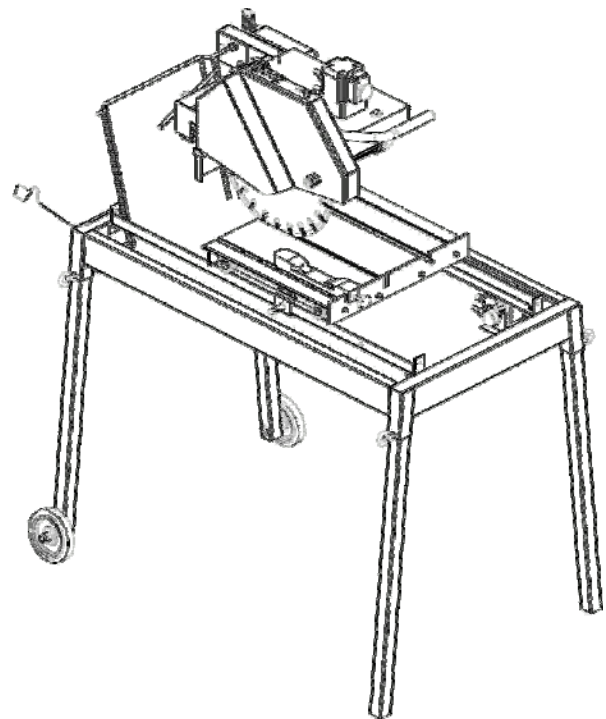


Operating Instructions

TBE350** Table Saw

Index / Indice «000»



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TBE350** Owner manual text

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SAFETY PRECAUTIONS

Saw blade should be inspected daily for excessive wear, core cracks, and arbor damage. Replace any blade that shows signs of damage.

- To mount blade, clean arbor and outer flanges, tightening nut securely.
- DO NOT place any portion of body in line with blade while it is rotating.
- To reduce risk of electrical shock, it is recommended to use GFCI and refer servicing to qualified professional.

We recommends the use of these safety items when operating the saw:

	USE PROPER GROUND CIRCUIT !
	USE BLADE GUARD WHEN OPERATING SAW !
	ALWAYS WEAR SAFETY GEAR !

GENERAL SAFETY RULES

- Never use the machine improperly or work in an unsafe manner.
- Always wear safety goggles, dust mask, and ear protection while operating the saw (to comply with ANSI-Z87.1).
- Always remain alert when the saw is in use. Failure to pay attention on the operator's part may lead to serious injury.
- Before you start working, familiarize yourself with the work site and its surroundings. Take notice of circumstances, which may impede working or traffic, observe soil conditions (good bearing or not), and take measures to ensure safety (i.e. the shielding of road works from public traffic).
- Take measures to ensure that the machine is in a safe and trouble-free condition prior to usage. Use the machine only when all protective devices (i.e. guards, noise absorbers, emergency-off devices) are operating in the intended locations.
- A visual check of the machine must be made at least once a shift to ensure that visible damages or faults are recognized. Any changes (including changes in the performance or behavior of the machine) must be reported to the supervisor. If necessary, stop the machine at once and secure it.
- In the case of a malfunction, stop the machine immediately and secure it. Fix the problem as soon as possible.
- For starting and stopping the machine follow the operating instruction steps and observe any indicator lights.
- Before switching the machine on make sure that the activated machine will be of no danger to anyone.
- Be sure to connect the plug to a properly grounded receptacle to reduce the risk of electric shock.

HEALTH WARNINGS

Some dust are created by power sanding, sawing, grinding, drilling, and cause other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated are, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

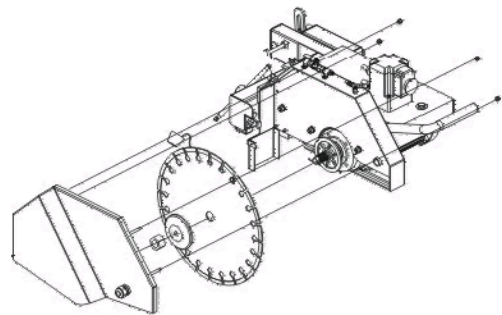
UNPACKING, ASSEMBLY & SET-UP

Open the container, carefully lift the saw frame handles and place it on a flat, level working area. Be certain that you have the following items before you discard the container:

- Saw
- 45° / 90° rip guide
- Universal wrench
- Owner's manual

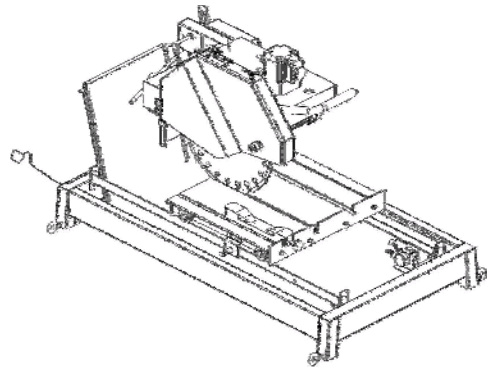
DIAMOND BLADE INSTALLATION

1. Move the blade shaft cover upwards. To remove the blade lock nut, open the shaft space.
2. Place the blade onto the blade shaft. Make sure that the directional arrow is pointing in the direction of the shaft rotation
3. Lock the blade lock nut with the outer flange. Use the multiple wrench provided to fasten the blade tightly



INSPECTIONS & SPECIFICATION

The compact TBE350** table saws are shipped completely assembled and ready for use except for the diamond blade. Inspect the saw for shipping damage. If any damage is found, contact the shipper immediately and file a freight claim. We are not responsible for any freight related damages. Remove the saw from the shipping container.



TBE350** SPECIFICATIONS	
Power	2,2 kW
Volts	230 V (110 V)
Amps	10 A (20)
Cycles	50 Hz (60 Hz)
Blade Shaft Speed	2,800 rpm
Max. Blade Size	15,7" / 400 mm
Arbor Size	1" / 25,4 mm
Max. Cutting Length	23,6" / 600 mm
Length	1140 mm
Width	640 mm
Hight	1230 mm
Wight	79 Kg

NOISE LEVEL AND VIBRATIONS	
Parameter	Wert
Noise level at the ear of the user (Leq)	81.9 dB(A)*
Noise level at workplace (LPA)	69.3 dB(A)*
Sound power level in acc. ISO 3744 (LwA)	89.3 dB(A)*
Vibrations DIN EN ISO 5349-2	< 2.5 m/s ²

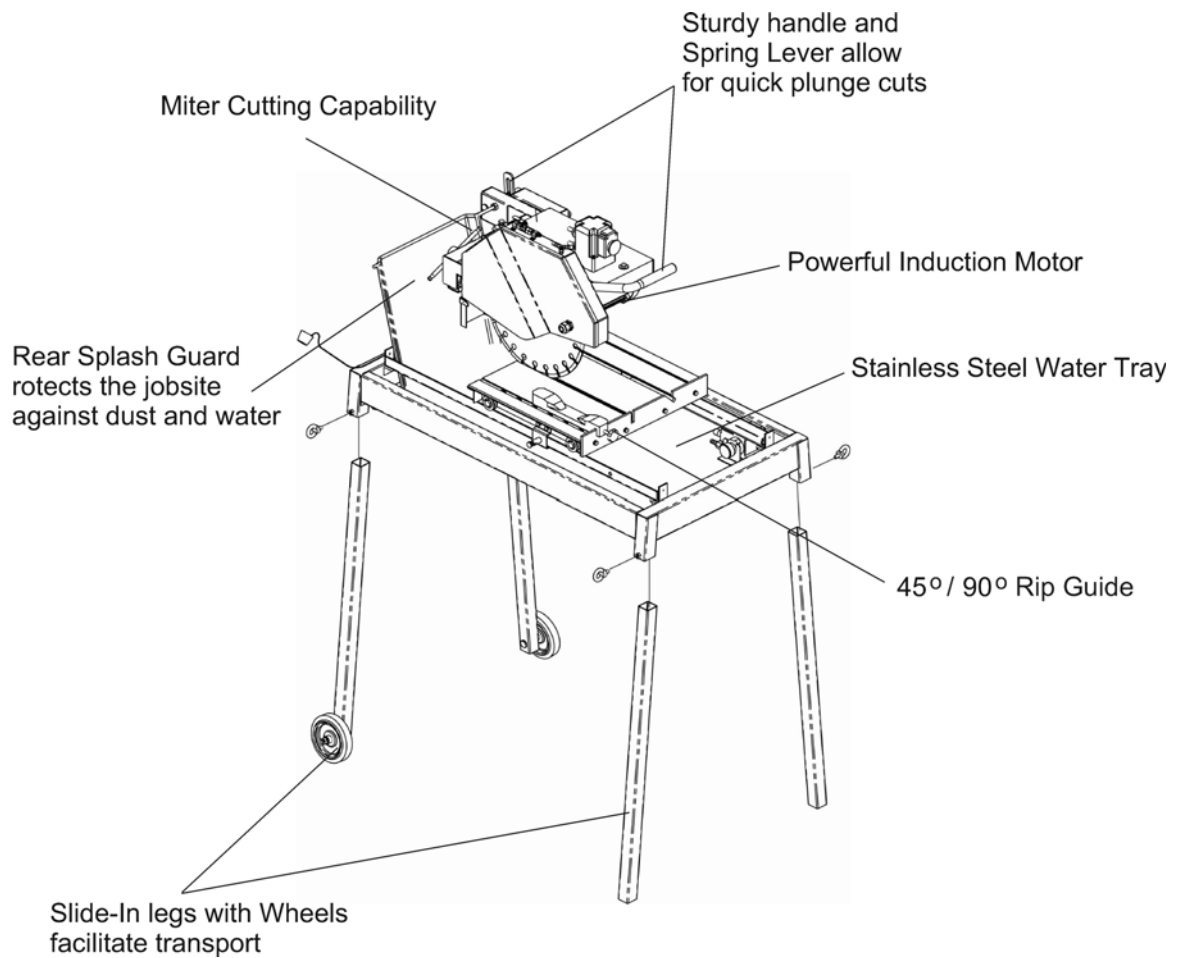
*Value applies under the following condition: With Sawblade Ø350mm Type EB No. 5696.

Higher noise levels may be generated in cutting operation.

ATTENTION! Hearing protection must be worn when 90 dB(A) is exceeded!

FEATURES

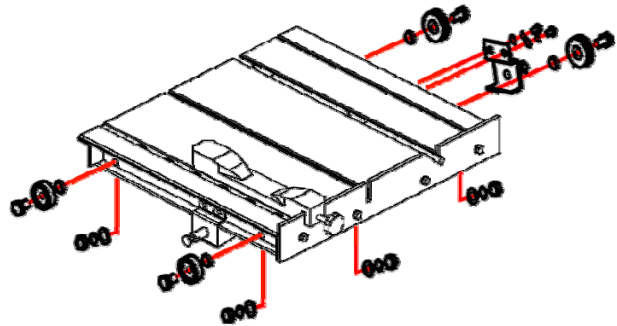
The TBE350** table saw is designed for the professional contractor in mind. It enhances performance with a multitude of features facilitating operation.



CUTTING TABLE ASSEMBLY

To install the cutting table to the machine:

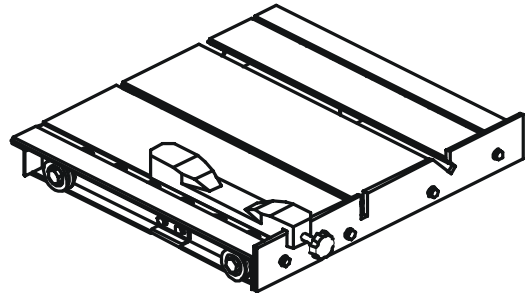
1. Set the cutting table on the rails
2. Install the screw and brackets to the cutting table
3. To remove the cutting table do the reverse of the above two steps.



THE CUTTING TABLE

Features:

- The heavy-duty cutting table with steel wheels provides the durability to handle large materials.



Only use the Ø14" (350 mm) blade for this saw. Setting smaller size of diamond blade may grab the material being cut, causing damage and possibly injury.

	<p>USE PROPER GROUND CIRCUIT !</p>
	<p>USE BLADE GUARD WHEN OPERATING SAW !</p>
	<p>ALWAYS WEAR SAFETY GEAR !</p>

THE RIP GUIDE

Steps to use the 45° / 90° rip guide

1. Set the rip guide by positioning it on the desired dimension and tighten the threaded knob. Make sure that the rip guide is firmly tightened to avoid slippage. The rip guide can be used for 90° rip cuts and 45° angle cuts from both the left and right side. (Note the straight and 45° angled slits on the bottom of the rip guide)
2. After the rip guide is positioned for the desired cut, place material flat against the rip guide and the measurement rail. After the rip guide is positioned for the desired cut, place material flat against the rip guide and the measurement rail. For 45° rip cuts, place the corner of material in the open slot of the measurement rail.
3. Simply line up the material being cut with the appropriate pre-marked lines on the cutting table.
4. Now you are ready to make your cut

CUTTING DEPTH

The recommended cutting depth is ¼" below the cutting table surface. The cutting clearance has been fixed from original designed.

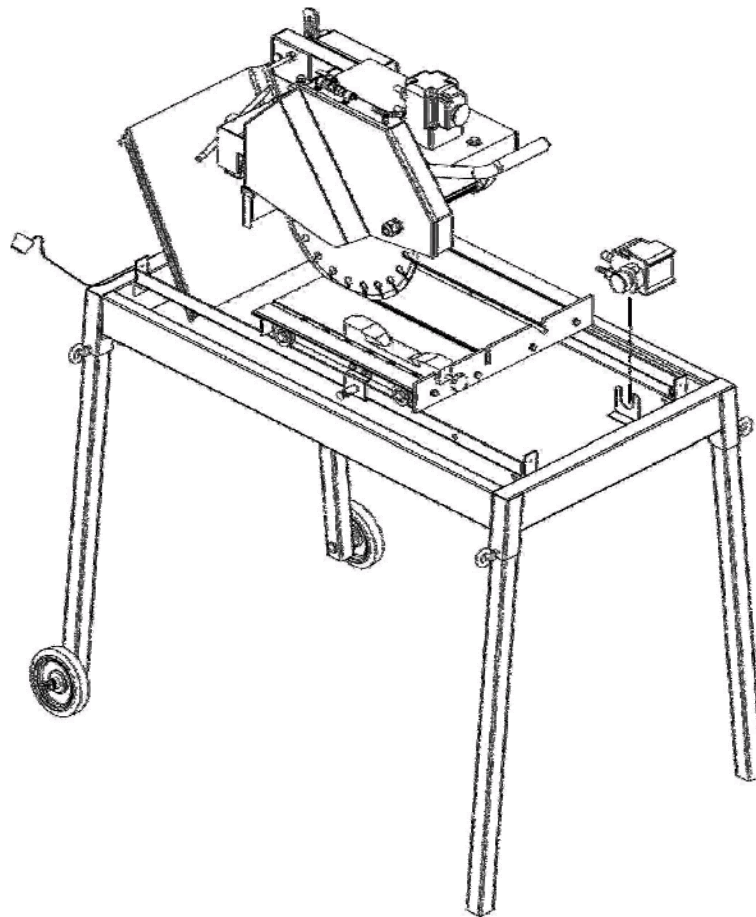


Only use the Ø14" (350 mm) blade for this saw. Setting smaller size of diamond blade may grab the material being cut, causing damage and possibly injury.

max. Blade Diameter 400 mm	max. Cutting Depth 120 mm
-------------------------------	------------------------------

WATER PUMP INSTALLATION

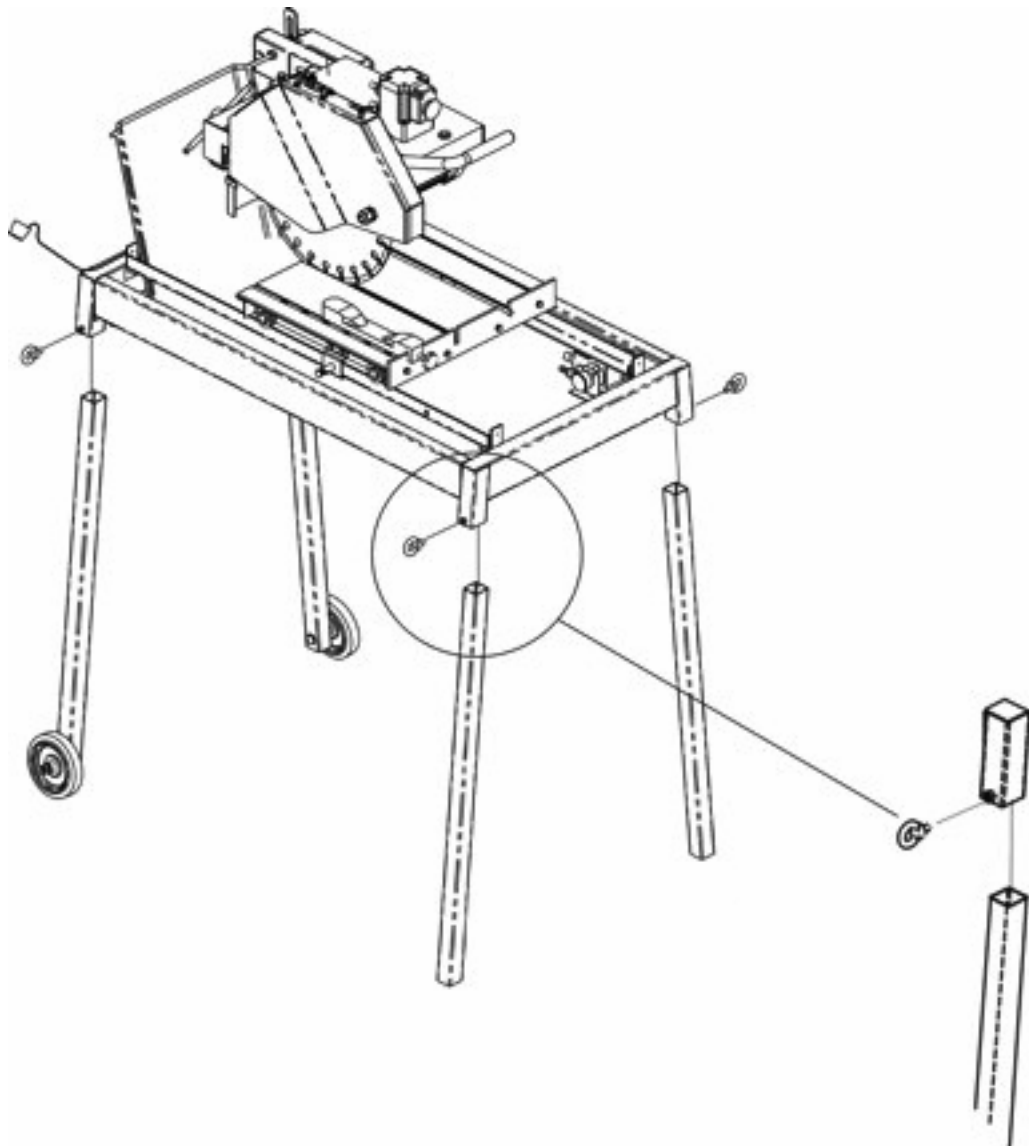
1. Remove the water pump from the box and check that it is not damaged.
2. Place the pump into the middle of the water tray along its side so that the water outlet is positioned horizontally. Connect the water hose from the blade guard to the pump and plug the power cord into the 3-prong receptacle.
3. Fill the water tray so that the water intake is fully immersed.
4. Be sure to support the pump during installation to prevent pump failure or damage.



Disconnect the pump before attempting to handle the pump.
Never operate pump without water in the tray

SLIDE-IN LEGS

1. Slide each of the four legs into the housing at the four corners of the saw frame.
2. After sliding the leg as far as possible, lock the leg in place with the ring bolt located on the leg housing.



ELECTRICAL MOTOR SPECIFICATIONS

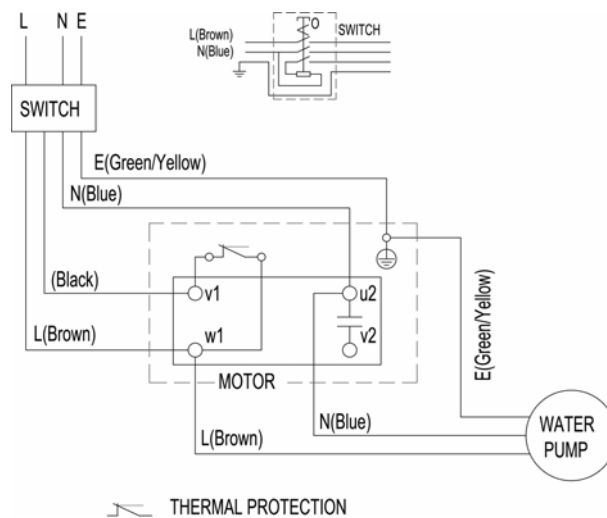
Features:

Power	2,2 kW
Volts	230 V (110 V)
Amps	15 Amps (30A)
otor RPM	2800 RPM
Cycle	50 Hz (60 Hz)

Recommendations:

It is recommended that a 15 A (30 A) CIRCUIT be used while operating this saw. This will prevent any loss of power or interruption.

Always plug saw as close as possible to the power source while operating. This will allow you to receive optimum electricity.



To avoid permanent motor damage you must use the correct extension cord. Never use more than one extension cord at a time. Follow the chart for proper size:

Wiregauge	Length of cord 2,2 kW – 230 V (110V)
Ø5 mm (Ø10 mm)	8 m
Ø8 mm (Ø16 mm)	15 m
Ø15 mm (Ø32 mm)	20 m

DO'S AND DON'TS FOR BLADES

WET CUT BLADES

DO'S

- Inspect blades daily for cracks or uneven wear.
- Always use appropriate blade for material being cut.
- Inspect arbor shaft for uneven wear before mounting blade.
- Always use blades with the correct arbor shaft size.
- Ensure that blade is mounted in the correct direction.
- Secure the blade to the arbor with a wrench.
- Use proper safety equipment when operating the saw.
- Periodically check the blade for cracks or bond fatigue.
- Always have a continuous flow of water on both sides of blade.

DON'TS

- Do not operate the saw without safety guards in position.
- Do not operate the saw with blades larger than Ø 15,7" (400 mm)
- Do not cut dry with blades marked "Use Wet".
- Do not exceed manufacturer's recommended maximum RPM.
- Do not force blade into material let blade cut at its own speed.

DRY CUT BLADES

DO'S

- In addition to the following, always follow wet recommendations.
- Use appropriate blade for material being cut.
- Inspect segment blades for segment cracking or loss.
- Do not use damaged blades.
- Use proper safety equipment when operating the saw.

DON'TS

- In addition to the following, always follow wet recommendations.
- Do not make long cuts with dry blades--allow them to air cool periodically.
- Do not use the edge or side of blade to cut or grind.
- Do not attempt to cut a radius or curve.
- Do not cut too deep or too fast into the material.
- Do not cut any material not recommended by blade manufacturer.

SAW MAINTENANCE

Maintenance interval	Wath to do for maintenance and care
After ecery use ot the machine	<ul style="list-style-type: none"> - Remove dirty water from container. - Remove dirt and mud from the bottom of the container - Rinse teh immersion pump with fresh water to prevent water pump dogging from residual dirt.
After wet clearing and before using the machine again	Connect the machine to an electric power outlet equipped with a“GFI” safety power breaker. If the safety power breaker cuts off the electrical power supply, do not try to operate the machine but have it checked by an authorized dealer first.
Before not using the machine for a prolonged period of time	Clean and lubricate all movable part.
Before not using the machine for a prolonged period of time	<ul style="list-style-type: none"> - Check that the stand is safely fixed. - Check that all screw joints and nuts are fixed. - Check that the roller table is in its guides and that it easliy moves to and fro. - With the saw blade removed, switch on the motor for an instant and switch it off again. If the motor does not run, have the machine inspected by a qualified electrician. - Check that the immersion pump works properly. Turn on the cooling water tap and switch the machine on. If the pump does not give any water or only a little, switch the machine off at once. Clean the pump, or replace of necessary.
Ambient temperture below 0°C (operation in winter)	To prevent the water in the pump and cooling system from freezing, remove the water after using the machine or when there will be a long break. Make sure that the cooling system is entirely drained so that there is no water left inside the pump, water hose and bearing housing



For your safety, before performing any maintenance on the saw turn off the power switch and unplug the power card

TROUBLESHOOTING

Problem	Possible cause	Solution
Machine does not run when switched on	Power cord not properly fixed / plugged in	Check that the machine is properly connected to the power supply.
	Power cord defective	Have the power cord checked, replace if necessary.
	Main power switch defective	Have the main power switch checked and replace if necessary by a qualified electrician.
	Loose electrical connection inside the electric system	Have the whole electric system of the machine checked by a qualified electrician.
	Motor defective	Have the motor checked and replace if necessary by a qualified technician.
Motor stops (power cut out)	To much pressure exerted while cutting	Exert less pressure when cutting
	Incorrect specification for saw blade	Use a saw blade which corresponds to the material being cut
	Saw has a defective electric system	Have the electric system of the saw checked by a qualified technician
Poor machine performance little power	Power cord/extension cable too long or cable still wound up inside cable drum	Use a power cord/extension cable of the rated length, use a cable drum with cable fully extended
	Power network is insufficient	Observe the electrical ratings of the machine and connect it only to a power network which complies with these ratings
	Drive motor no longer runs at rated speed (r.p.m.)	Have the motor checked by a qualified electrician and have it replaced if necessary

TROUBLESHOOTING

Problem	Possible Cause	Solution
Irregular run of the saw blade	Poor tension in the blade material	Return the saw blade to the manufacture
Saw blade wobbles when running	Saw blade is damaged or bent	<ul style="list-style-type: none"> - Have the saw blade aligned/flattened - Clean the receiving flange - Solder the diamond segments of the old blade onto another saw blade or use a new blade
	Flange of the saw blade is damaged	Replace the saw blade flange
	Shaft of the motor is bent	Replace the electric motor
Diamond segment becomes loose	Overheating of the saw blade, cooling water not sufficient	Have the diamond segment soldered on the blade again, ensure optimum flow of cooling water
Excessive wear	Wrong type of saw blade	Use harder saw blades
	Shaft of motor causes wobbling	Have bearings of the motor or the motor replaced
	Overheating	Ensure optimum flow of cooling water
Cracks in or near the diamond segment	Saw blade too hard	Use a softer blade
	Fixed flange is worn out	Have the fixed flange replaced
	Motor shaft bearing	Replace the bearing of the motor shaft

TROUBLESHOOTING

Problem	Possible cause	Solution
Saw blade is blunt	<ul style="list-style-type: none"> - Saw blade type is unsuitable for the material being cut - Saw blade type is unsuitable for the machine performance - Saw blade too hard 	Use appropriate type of saw blade
	Diamond segments are blunt	Sharpen the diamond saw blade
Appearance of cut is not optimal	Poor tension in the blade material	Return the saw blade to the manufacture
	Too much load placed on the saw blade	Use a suitable saw blade
	Diamond segments are blunt	Sharpen the saw blade
The center hole in the saw blade has become wider due to wear	The saw blade has slipped on the motor shaft when running	The arbor of the saw blade must be fitted with an appropriate adapter ring
		Check the receiving flange and have it replaced if necessary
Saw blade shows blooming colors	Lateral friction when cutting	The material feed is too high; proceed more slowly
Grinding marks on the saw blade	Material is not being feed parallel to the saw blade	Ensure that the direction of feed is absolutely parallel to the saw blade
		Adjust the roller table/have it adjusted
	Poor tension in the blade material	Have the saw blade tensioned
	Too much load on the saw blade	The material feed is too high, proceed more slowly

CUSTOMER SERVICE

AFTER SALE SERVICE

All customer service (technical questions, re-order of parts, etc.) will be provided by us.

CLAIMS FOR LOST OR DAMAGED GOODS

If merchandise is delivered in damaged condition or cartons are missing, a notation must be placed on all papers signed by the receiver. If unreported or concealed damages are noticed after delivery, the carrier should be contacted by telephone and if carrier fails to send an inspector within five days, a request should be made in writing to the carrier, confirming the telephone request for an inspection.

All requests for credit due to transportation loss or damage should be accompanied by properly signed papers. A claim for loss or damage must be filed with the carrier within 60 days from the shipping date for UPS or other common carriers. Credit cannot be allowed for damage claims that are not properly substantiated with supporting papers or received by us too late for timely filing with the carrier.

CONTACT US

We pride ourselves on our customer service. If you have any questions regarding our products, whether it may be product inquiry or troubleshooting, please don't hesitate to contact us at our corporate office. We will do our best to answer your questions. In some cases we may even refer you to a local sales representative that can better service you.

WARRANTY

For a period of one (1) year from the original date of purchase, if the product is determined to be defective, we will repair or replace the product, at its option, at no charge to the customer, or pay the associated repair costs to an authorized service facility. All replacement parts, new or rebuilt, supplied at our option for repairs will be warranted for the remainder of the original warranty period of one (1) year. All defective products or components replaced under this limited warranty will become our property. This limited warranty excludes all components not manufactured by OUR COMPANY, which are listed below with their corresponding independent warranty periods. Such components are warranted by their respective manufacturer, whose warranty will be the governing warranty for that particular product.

Excluded Components	Manufacturer's Warranty
Electric Motors	1 Year

EXCLUSIONS FROM WARRANTY

We cannot assume responsibility for claims arising from abuse of the our product:

- Due to abuse by the Purchaser in their processing.
- Due to improper installation practices or procedures.
- Due to abuse or improper usage by the end-user.
- Due to contaminants, including, but not limited to, exposure to salt or fresh water, chemicals and any other form of contamination from a source outside of our control.

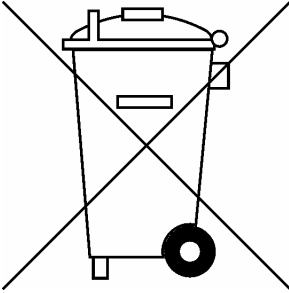
LIMITED WARRANT

This product is covered by a one year warranty from the date of purchase. If the product is defective in workmanship or material, TYROLIT Hydrostress AG will repair and /or replace it free of charge upon returning the product to distributor/dealer in its original packaging.

This warranty does not cover normal wear or damage resulting from operator abuse. TYROLIT Hydrostress AG obligations under this warranty shall be limited to the repair and/or replacement of the product. TYROLIT Hydrostress AG shall not be liable for consequential damages resulting from the improper use of the product. This warranty is void if the product or any of its components are modified, altered, or in any way changed. Selected components such as motor/engines are excluded from this warranty and are subject to the manufacturer's warranty. This warranty is in lieu of all warranties expressed or implied.

DISPOSAL

GENERAL



The operator can recycle or dispose of the Table saw himself provided he observes the statutory provisions. In order to dismantle the Table saw correctly and to properly remove the materials some knowledge in the area of mechanics and knowledge about differentiation of waste materials is necessary.

If during correct disposal doubts arise that represent a hazard for persons or the environment, the after-sales service of TYROLIT Hydrostress AG will be happy to provide information.



DANGER

Voltage warning

Before working in an area identified in this way, the installation or device must be fully disconnected from the power (voltage) and secured against being accidentally powered up again.

Failure to heed this warning may lead to death or serious injury.

PERSONNEL QUALIFICATIONS

Only personnel with basic technical training and who are in a position to identify the various material groups should be involved in disposal.

DISPOSAL REGULATIONS

The normal local and regional rules and guidelines must be observed when disposing of the machines making up the Table saw.

DISPOSAL OF TABLE SAW

DISPOSAL REGULATIONS

The dismantled parts of the table saw are sorted by material and sent separately to the appropriate collection points. Ensure that the following parts in particular are properly disposed of.

The Table saw consists of the following materials:

Cast aluminium	Rolled aluminium products
Bronze	Steel
Rubber	Rubber / Nylon fabric
Synthetic grease	Plexiglas

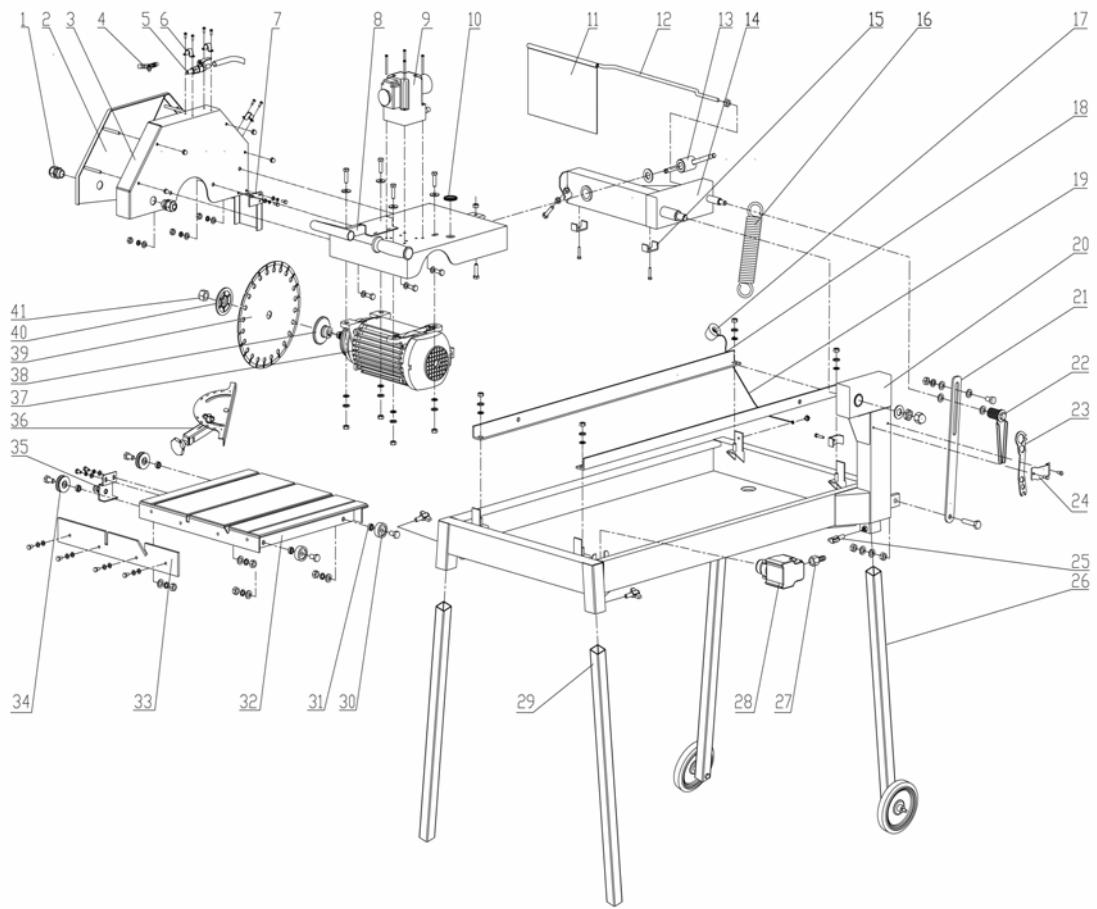
OBLIGATION OF NOTIFICATION

When a Table saw is taken out of service and disposed of the manufacturer TYROLIT Hydrostress AG or the corresponding service centre must be informed of this.

TBE350** Spare Part List

1	Water hose plug	EOSM-121 01 034	10981925
2	Outer blade guard	EOSM-131 04 034	10981926
3	Inner blade guard	EOSM-113 02 034	10981927
4	Water flow "T" adapter	EOSM-123 04 005	10981928
5	Water valve	EOSM-130 01 005	10981929
6	Hose clip	EOSM-113 28 005	10981930
7	Water splash guard	EOSM-130 04 034	10981931
8	Motor bracket	EOSM-131 03 034	10981932
9	Switch 230 V	EOSM-132 01 041	10986216
	Switch 110 V	EOSM-132 05 034	10986025
10	Cable sleeve	EOSM-122 08 033	10981934
11	Back splash guard	EOSM-123 06 034	10986217
12	Splash guard holder	EOSM-112 25 034	10986218
13	Angle locking handle	EOSM-130 01 034	10981937
14	Cross beam	EOSM-131 06 034	10981938
15	U style hose clip	EOSM-113 37 033	10981939
16	Load spring	EOSM-112 18 034	10981940
17	Drain plug	EOSM-130 02 034	10981946
18	Guide rail	EOSM-113 03 041	10986219
19	Chain	EOSM-131 19 033	10981943
20	Main frame	EOSM-131 01 041	10986220
21	Height slot	EOSM-113 10 034	10981945
22	Height locking handle	EOSM-130 01 047	10986221
23	Multiple wrench	EOSM-113 28 034	10981947
24	Wrench bracket	EOSM-113 29 034	10981948
25	Bolt	EOSM-121 01 002	10986222
26	Leg with wheel	EOSM-130 06 034	10986223
27	Pump adapter	EOSM-121 11 001	10981951
28	Water pump 230 V	EOSM-132 03 005	10981952
	Water pump 110 V	EOSM-8000060101	10986026
29	Straight leg	EOSM-112 17 034	10981953
30	Roller wheel	EOSM-112 31 033	10981954
31	Sleeve	EOSM-112 13 005	10981956
32	Cutting table	EOSM-131 12 034	10986224
33	Cutting table fence	EOSM-113 20 034	10981958
34	Guide Wheel	EOSM-112 29 033	10981959
35	Cutting table locking assembly	EOSM-130 05 034	10981960
36	Rip guide	EOSM-130 03 005	10986225
37	Motor 230 V	EOSM-132 01 005	10981961
	Motor 110 V	EOSM-1900160101	10986027
38	Inner flange	EOSM-111 06 005	10986226
39	Blade		
40	Outer flange	EOSM-111 02 013	10981963
41	Lock Nut M20 (left)	EOSM-338019	977631
42*	Cable with connector CEE 16 110V	EOSM-7200020101	10986028

TBE350** EXPLODE VIEW



CE Declaration of conformity



Description: **Masonry saw TBE350S**
with electric engine 2.2 kW/110V or 230V

Type: TBE350S
Article number: 10981424 (110V)
Article number: 10981423 (230V)
Serial number: 35200001 – 3500__ __
Index: 001
Year of construction: 2009



The TYROLIT Hydrostress AG certifies that the inspected above machine against the following guidelines and that we confirm compliance with these standards:

Guidelines:

Machine Directive	98/37/CE, 2006/42/CE
2002/95/EC Restriction of the use of certain hazardous substances in electrical and electronic equipment	2002/95/CE
Electrical Directive	93/68 EWG
Electromagnetic compatibility	89/336/CEE
Waste electrical and electronic equipment	2002/96/CE
Vibration Directive	2002/44/CE
Noise Emission	2000/14/CE

Standards:

EN 12418:2000	Masonry and stone-off machines for job site - Safety
EN ISO 14121	Safety of machinery: Principles of risk assessment
EN 61000-6-3	Electromagnetic compatibility

Tyrolit Hydrostress AG
Witzbergstrasse 18
CH-8330 Pfäffikon ZH

Pfäffikon, 07.04.2009

Mario Facchin
Head of Research and Development



EN ISO 9001 u. EN ISO 14001
Zertifikate Nr. 20 100 72002004 u. 20 104 7177
www.tuv.at