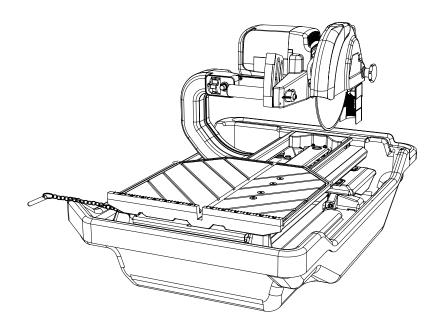


Operating Manual Spare Parts List

Wet Tile Saw

TTE250***

Index / Indice «001»



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i. GENERAL SAFETY RULES FOR ALL POWER TOOLS

WARNING! Read all instructions. As with all machinery there are certain hazards involved with operation and use of the machine. The following basic safety precautions should be followed at all times to reduce the risk of fire, electric shock and serious personal injury to you or others. Keep these important operating instructions with this product.



1. Know your power tool - read owner's/operator's manual carefully. Learn its applications and limitations as well as the specific potential hazards unique to this tool.



- 2. Keep guards in place and in working order.
- Ground all tools if tools are equipped with three prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.



 Remove wrenches - Form a habit of checking to see that adjusting wrenches are removed from tool before turning it "on".



- 5. Keep work area clean. Cluttered areas and benches invite accidents.
- 6. Do not use in dangerous environment. Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted. Do not use tool in the presence of flammable liquids or gasses.
- 7. Keep children and visitors away. All children and visitors should be kept at a safe distance from work area.
- 8. Make workshop childproof with padlocks, master switches or by removing starter keys.
- 9. Do not force tool. It will do the job better and be safer at the rate for which it was designed.
- 10. Use right tool. Do not force tool or attachment to do a job for which it was not designed.
- 11. Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry that may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 12. Always use safety glasses. Wear safety glasses at all times. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Use face or dust mask if cutting operation is dusty, and ear protectors (plugs or muffs) during extended periods of operation.
- 13. Do not overreach. Keep proper footing and balance at all times.
- 14. Maintain tools in top condition. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility.
- 15. Disconnect tools. When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
- 16. Avoid accidental starting. Make sure switch is in "off" position before plugging in power cord.
- 17. Use recommended accessories only. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
- 18. Never stand on tool. Serious **injury** could occur if the tool is tipped or if the cutting tool is accidentally contacted.

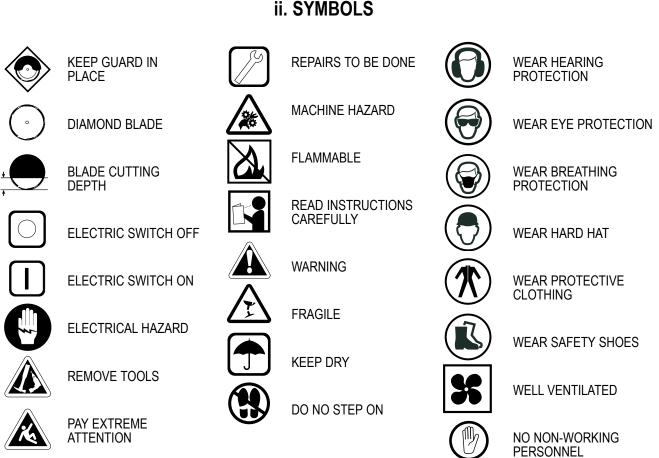


- 19. Check Damaged Parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform it's intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect it's operation. A guard or part that is damaged should be properly repaired or replaced.
- 20. Never leave tool running unattended. Turn power "off". Do not leave tool until it comes to a complete stop.



- 21. Extension cords. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Extension cord tables (refer to page 21) show the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage numbers the heavier the cord.
- 22. Do not abuse cord. Never carry tool by cord or pull it to disconnect from receptacle, Keep cord from heat, oil, and sharp edges.
- 23. Guard against electric shock. Prevent body contact with grounded surfaces. For example, pipes, radiators, ranges and refrigerator enclosures.
- 24. Outdoor use extension cords. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
- 25. Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- 26. Drugs, alcohol, medication. Do not operate tool while under the influence of drugs, alcohol or any medication.
- 27. Store idle tool. When not in use, tool should be stored in a dry and locked place, out of reach of children.

WARNING! Sawing generates dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment always employ dust controls and protection suitable to the material being saw. Diamond blades improperly used are dangerous. Comply with safety regulations covering speed, safety guards, flanges, mounting procedures, general operating rules, handling, storage and general machine condition.



4

iii. FEATURES

The TYROLIT TTE250 is a portable professional tile saw. Lightweight and compact it has innovative built in features that enable it to cut larger format tiles. The unique coaction movement of the cutting head and main table allow the saw to increase its cutting capacity whenever needed. The main table and extension carriage are supported by low friction, self cleaning, adjustable guide wheels. Water flow to the blade is provided by two (2) nozzles that direct the water to both sides of the blade. The rugged powder coated metal and aluminum frame sets in a removable water tray for easy clean up.

- Powerful Motor 1.1 kW.
- Circuit breaker protects your saw from power surges and overheating.
- High Impact ABS Water Tray.
- Adjustable Cutting Head allows user to align saw at any time.
- Cutting alignment not affected by water tray maintenance.
- Blade Capacity 250mm.
- Diagonal cut up to 460mm tiles and rip cut up to 730mm in length.

The heavy duty, cast to last construction and quality components were designed to meet the highest demands of the professional.

Read this manual completely and then let the TYROLIT TTE250 take your cutting capabilities to new dimensions.

iv. SPECIFICATIONS

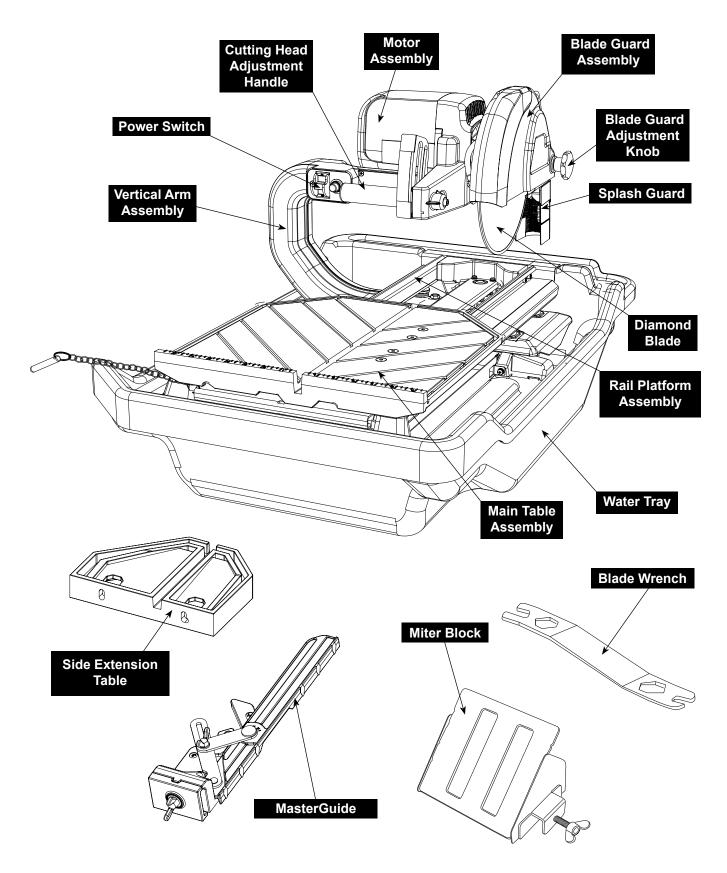
	TYROLIT TTE250 TILE SAW					
MOTOR	ARBOR SHAFT ROTATION	MAX. BLADE CAPACITY	WEIGHT	DIMENSIONS		
1.1kW 110 V, 50 Hz or 230V, 50 Hz Single phase*	Counter- Clockwise	25.4mm arbor blade, 250mm Blade	26 kg	Width: 600mm Length: 900mm Hight: 500mm		

* The motor is designed to operate on either 110V or 230V mains, but not both. Refer to the name plate located behind the motor for power requirements specific to your motor.

Noise level and vibrations	
Noise level at the ear of the user (Leq)	93.7 dB(A)*
Noise level at workplace (LPA)	80.5 dB(A)*
Sound power level in accordance with ISO 3744 (LwA)	100.5 dB(A)*
Vibrations DIN EN ISO 5349-2	< 2.5 m/s²
*Value applies under the following condition: With Sawblade Ø250mm Ty Higher noise levels may be generated in cutting operation.	/pe EB No. 5504014.

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

v. GETTING TO KNOW YOUR SAW



vi. BLADE INSTALLATION

- Carefully raise the cutting head to its highest position and secure it into place by tightening the cutting head adjustment knob located in the front of the saw, to the right of the power switch.
- 2. Raise the blade guard to the highest position and tighten the blade guard adjustment knob.
- 3. Remove the blade shaft nut and outer flange.
- 4. Place the blade onto the shaft making sure that the directional arrows are pointing in the direction of rotation.
- 5. After making sure that the blade is firmly placed against the inner flange, secure it into place with the outer flange and blade shaft nut. Make certain the nut is firmly tightened with the wrench provided, but **do not over tighten!**
- 7. Lower the blade guard and tighten the adjustment knob.
- Slightly loosen the cutting head adjustment knob and lower the cutting head to its lowest position, and then tighten the adjustment knob firmly to hold the cutting head in place.

WARNING: Setting the blade too high may cause the blade to grap the material being cut, causing damage and possibly injury.

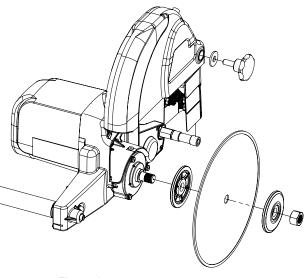


Figure 1

vii. SAFE OPERATING PRACTICES FOR TILE SAW

WARNING! For your own safety and the safety of others do not attempt to operate this saw until you have read and understand the general safety rules for all power tools and the following additional safety precaution unique to this saw.

1. Use safety equipment - wear safety approved hearing, eye, head and respirator protection.

WARNING! The dust generated by cutting of tile, marble, stone, bricks etc. can be injurious to your health. Always operate machinery in well ventilated areas and provide proper dust removal. Always wear a dust mask approved for respiratory protection against these types of dusts and mists.

2. Read and understand the symbol definitions contained in this manual.

- 3. Read and understand all warnings and instructions on the machine.
- 4. Read all safety materials and instructions that accompany any blade or accessory used with this machine.
- 5. Establish a training program for all operations of this machine.
- 6. Always provide a copy of this manual to the equipment user. If you need extra copies call our Customer Service Department.
- 7. Always select a diamond blade according to the manufacturers recommendation suitable for the material to be cut. Never use a blade having a maximum operating speed lower than the "No load R.P.M." marked on the tool nameplate. Do not operate any saw without safety guards in place or with a blade diameter larger than the maximum

saw blade capacity.

 Before mounting a blade on the saw clean and inspect the arbor shaft, blade flanges and the diamond blade for uneven wear or damage. If it appears to be damaged, <u>Do not operate the tool.</u> Have it serviced by a qualified service technician.



 Before each use of the saw, inspect the diamond blade for hairline fatigue cracks. If such a crack or flaw is evident, discard the blade. <u>Using a</u> <u>damaged blade may cause injury to the operator</u> <u>or others.</u>

 Be sure that the blade arbor hole matches the blade adapter flange supplied with the saw. Use only blade adapter flanges that came on your saw. Never use damaged or worn blade adapter flanges.



Installing the blade, install the blade with the arrow pointing the same direction as the rotation of the arbor shaft or the arrow on the blade guard. Be sure to tighten the blade shaft arbor nut with the wrench provided. <u>Be careful not to over tighten.</u>

WARNING! Not dressing the blade frequently or setting the blade too high will cause it to grab the tile possibly causing injury to the operator and the saw.

- Check that the blade tracks near the center of the channel in the main table, and that the table moves freely from front to back.
- 13. Sometimes the material being cut is not abrasive enough to expose new diamonds on the blade. If the blade is not sharpened, it will rub against the surface resulting in heat build up in the core. To prevent this, it is necessary to dress the blade. To dress the blade simply cut something that is very abrasive such as a piece of cement block. Indications that the blade needs dressing includes:
 - The diamond in the matrix appear shiny because they are worn flat.
 - The blade stops cutting or noticeably slows down.

Blade dressing stones are available from your local TYROLIT distributor.

- 14. Before using the saw fill the water tub enough to submerge the water pump with clean water only. Replenish as necessary and clean the water tub frequently. Do not operate a wet cutting blade without adequate water flow to both sides of the blade. Never run the pump dry.
- 15. When cutting, always hold the material firmly lying flat, supported by the main table with one edge resting against the main table backstop.



- Do not attempt to cut pieces too small to safely hold down on the main table.
- Never use the side of the blade to cut or grind with, only cut in a straight line.
- Keep all parts of your body away from the blade and all other moving parts.
- Never touch or try to stop a moving blade with your hand.
- When cutting dry always unplug the water pump first. <u>Never run the pump dry.</u>
 - Do not use a wet cutting blade for dry cutting. Select the proper dry cutting blade for your application.
 - Never make long continuous cuts with dry cutting blades. To avoid heat build up, allow the blade to cool, remove the tile and allow the blade to run freely for a few minutes.

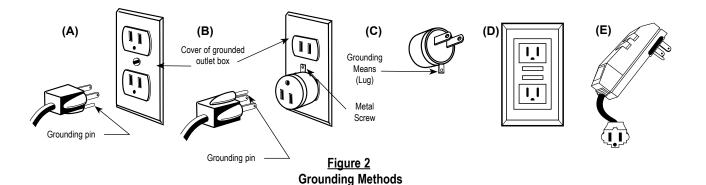
IMPORTANT - If there is any tendency for the saw to move during certain operations, such as when cutting large heavy tile; the saw must be securely fastened to a supporting table.

- 17. Make certain all adjusting knobs or locks are tight and engaged in their detents and that movable parts not intended to move during operation are securely locked before making a cut. <u>Be careful</u> <u>not to over tighten.</u>
- Before connecting the machine to a power source check to see that the "On/Off" switch is in the "off" position.
 - Make sure the blade is not contacting anything before connecting to a power source and starting the motor.
 - Know how to stop the machine quickly in case of an emergency.









- 19. Grounding Instructions
 - In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
 - Do not modify the plug provided if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
 - Improper connection of the equipment grounding conductor can result in a risk of electric shock.
 - Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
 - Use only 3 wire extension cords that have 3 prong grounding plugs and 3 pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in *Figure* 2. The tool has a grounding plug that looks like the plug illustrated in *Figure* 2(A). A temporary adapter, which looks like the adapter illustrated in *Figure* 2(B) and 2(C), may be used to connect this plug to a 2 pole receptacle as shown in *Figure* 2(B) if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to permanent ground such as a properly grounded outlet box.

NOTE - Use of a Temporary Adapter is not permitted in certain countries. Please check local regulations before using a Temporary Adapter.

Additionally, water pump requires the use of a Ground Fault Circuit Interrupter. Therefore, when using the water pump receptacle, this tool must be plugged into a properly installed Ground Fault Circuit Interrupter outlet. See Figure 2(D). If a Ground Fault Circuit Interrupter outlet is not available, TYROLIT Hydrostress AG has it available as an accessory item. A plug-in Ground Fault Circuit Interrupter may be plugged into a properly installed and grounded 3-pole outlet. Refer to Figure 2(E).

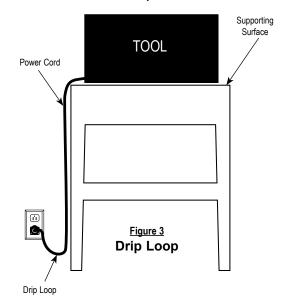
20. Position of the Tile Saw

- To avoid the possibility of the appliance plug or receptacle getting wet, position tile saw to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. The user should arrange a "drip loop" in the cord connecting the saw to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle. See Figure 3.
- If the plug or receptacle does get wet, <u>Do</u> <u>not unplug the cord</u>. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.



To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.

- 21. Extension Cords
 - Use only extension cords that are intended for outdoor use. These extension cords are indentified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. Refer to chart on page 21. Do no use damaged extension cords. Examine extension cord before using and replace if damaged. Do no abuse extension cords and do not pull on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the saw from the extension cord.
- Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the tile saw. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.



viii. USING THE CUTTING TABLE

Features:

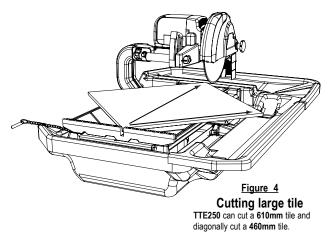
- Cutting table marked in inches for precision cuts.
- 350mm cutting table provides more support during larger cutting jobs than the standard 280mm cutting tables.

Using MasterGuide:

- 1. Set the MasterGuide by positioning it at the desired dimension on the measurement rail and firmly tighten the horizontal threaded knob. When using the attached ruler, the guide can be used to make cuts betwen 45° and 90°. To adjust the cutting angle first loosen the vertical threaded knob.
- 2. The guide can also be used without the ruler attachment to make 90° cuts on either the left or right edge. The guide contains multiple 45° templates to allow diagonal cuts of common tile sizes. Position the guide for a diagonal cut by aligning the desired template along a diagonal groove on the table. To remove the ruler first remove the vertical threaded knob.
- 3. After positioning the guide, place the material flat against the guide and the table measurement rail. Now you are ready to make your cut.

Making Miter Cuts (Using Miter Block):

- 1. For miter cuts, place the lip of the miter block on the measurement rail, with the threaded knobs facing you.
- 2. Tighten the threaded knobs to secure the miter block in place.
- 3. Place material onto miter block and you are ready to cut.



TTE250 shown with optional drip trays.

xix. CARE AND MAINTENANCE

the power cord.

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

TYROLIT TTE250 requires very little maintenance. However, keeping your saw clean and properly adjusted will ensure optimum performance. Take great care not to get water into the motor. Do no use pressure washer to clean motor area.

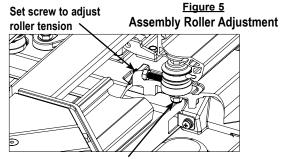
- 1. Cleaning
 - · Form a habit of cleaning your saw after each use. To clean the water tub, remove drain plug provided in bottom of tub. Remove saw including water pump from tub. Remove residual water and clean tub using soap and water only. Reinstall saw with pump into tub.
 - · To increase water pump life remove tile grit by purging water. Pump with fresh water after each use.
 - With a damp cloth or sponge wipe clean the guide rails and all other surfaces on the saw where dust and debris has accumulated.

NOTE - Do not lubricate the guide rails. The presence of oil or grease will cause an accumulation of dust and dirt.

2. Transporting

- · Unplug the power cord and store it in the empty, dry water tub. For convenience and safety, the saw should be transported with the main table locked, motor in upper position and all adjustment knobs tightened.
- 3. Sliding Vertical Arm Assembly Adjustment
 - Make sure that all rails and rollers are clean.
 - · If the vertical arm assembly does not slide smoothly, it will require tension adjustment as follows:
- A. Locate the two tension rollers mounted on he black base of the vertical arm assembly furthest from the arm. Use a wrench to loosen the nyloc nut directly below each roller. Use another wrench to prevent the bolt on top from turning. See Figure 5.
- B. Use the horizontal set screw to adjust roller tension against the rails. The rollers should roll free but without side movement.

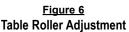
C. Tighten nyloc nut when finished to secure rollers in place. Be sure not to overtighten.

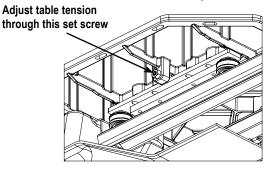


Nyloc nut is found under the base

4. Table Roller Adjustment

- A. Loosen (4) hex screws on table top.
- B. Adjust tension on rollers by turning set screw (on outside of table) until desired tension is achieved. DO NOT OVERTIGHTEN. See Figure 6.
- C. Re-tighten the (4) hex screws on table top. Check table movement and re-adjust if necessary. Table should roll free but without side movement.

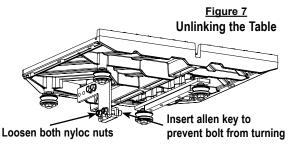




NOTE - Whenever making tension adjustments to rollers on the vertical arm assembly or table, the stainless steel wire linking the two components together should be disconnected first. Otherwise, it will not be possible to determine which rollers will require adjustment. See Section 5 for steps.

5. Unlinking Coaction Wire

- A. Remove the wire shield located between the rails by removing the screws at both ends.
- B. Loosen the nyloc nuts on the wire anchor underneath the table so that the wire can pass freely through the bolt. <u>Be sure to use an</u> <u>allen key to prevent the bolt from turning.</u> <u>Failure to do so may cause the wire to</u> <u>break.</u> See Figure 7.

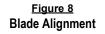


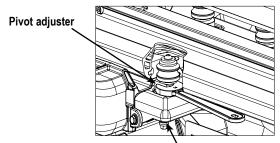
- C. Perform the necessary adjustments. Proceed to next step once completed.
- D. Move the table towards the user, such that the forward-most roller touches the rubber stopper at the end of the rail. Then move the vertical arm assembly to the opposite end, while leaving a small gap between the rearmost roller and frame.
- E. Tighten the nyloc nuts on the wire anchor, while preventing the bolts from turning.
- F. Replace the wire shield.

6. Aligning the Blade to the Table

- While cutting, the material being cut must move in a straight line parallel to the saw blade. If the blade is out of plane it will bind at one end of the cut. To align the blade, perform the following:
- A. Locate the pivot adjuster on the black base of the vertical arm assembly next to the arm. Loosen the socket hex bolt directly below the adjuster. See Figure 8.
- B. Turn pivot adjuster using a wrench either clockwise (putting the roller into the rail) or counterclockwise (pulling the roller away from the rail). While the pivot adjuster determines blade alignment, the rollers on the opposite side of the assembly base (see Section 3) must also be adjusted simultaneously so that they run parallel to the rollers closest to the vertical arm. <u>Do not apply excessive</u> force when turning the pivot adjuster.

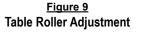
Resistance encountered while turning the pivot adjuster indicates that rollers are being forced against the rail. Lower roller tension before proceeding.

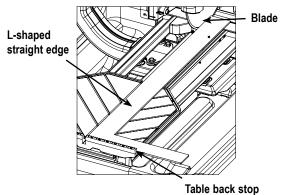




Loosen socket hex bolt

- C. Tighten lower socket hex bolt when finished. With the pivot adjuster secured, adjust the remaining rollers to obtain proper tension against the rails. See Section 3.
- D. Check alignment by placing an L-shaped straight edge on the table with the short arm resting flat against the table back stop. The long arm should rest against the blade with the cutting head completely lowered. Check to see if there are any gaps between the leading or trailing edges of the blade and the straight edge. If gaps exist, then repeats steps A C until alignment is attained. See *Figure 9.*

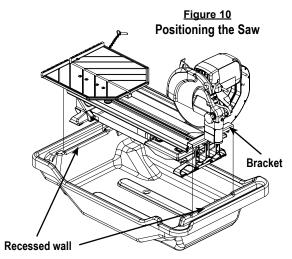




7. Positioning the Saw in the Tub

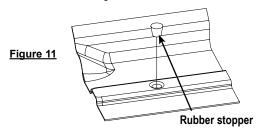
- A. Orient the saw such that the front is pointing towards the short side of the tub with the beveled corner.
- B. While lowering the saw into the tub, ensure that brackets at both ends of the saw frame

fit over the recessed portions of the tub wall. *See Figure 10.*



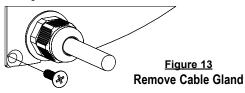
8. Tub & Tray

A. Insert the large rubber stopper in the drain hole. See Figure 11.



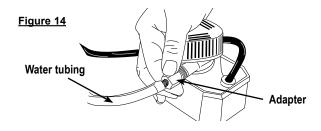
9. Replacing the Water Pump

- In the event of a water pump failure, replace the pump by performing the following steps:
- A. Remove the cable gland located at the bottom of the vertical arm shield by turning it counterclockwise. Once removed, the cable should slide freely within the underlying sleeve. *See Figure 13.*



- B. Remove screws from the vertical arm shield, then remove the shield.
- C. Disconnect wiring from the water pump power cable within the vertical arm.
- D. Extract the power cable from the vertical arm through the sleeve at the bottom of the shield. Keep the cable gland.

- E. Remove the water pump underneath the rails and install a new one in its place. Remove the water tube and adapter from the failed pump.
- F. Insert power cable from the new pump through the cable gland and shield sleeve and route it up the vertical arm. The gland must be oriented such that it can attach to the sleeve.
- G. Connect wiring from the water pump power cable to the same wires made available when disconnecting the failed pump.
- H. Install shield onto vertical arm using screws.
- Gently extract excess cable stored within vertical arm; some slack is ideal. <u>Tugging the</u> <u>cable may dislodge or disconnect critical</u> <u>electrical components.</u> Attach cable gland onto the shield sleeve by turning clockwise. If properly attached, the gland should secure the cable in place.
- J. Attach the adapter to the pump and hand tighten. <u>Do not use a wrench</u> as it can strip the thread.
- K. Connect clear tubing to male section of the adapter until it fits securely. See Figure 14.



x. CUTTING DEPTH

The recommended cutting depth is 6mm below the cutting table surface. To adjust the cutting depth, loosen the cutting head adjustment handle and set it to the lowest position, so that the blade is 6mm below the top of the table surface.

WARNING: Setting the blade too high may cause the blade to grab the material being cut, possibly causing injury to the operator and the saw.

BLADE DIAMETER	CUTTING DEPTH
250mm	60mm

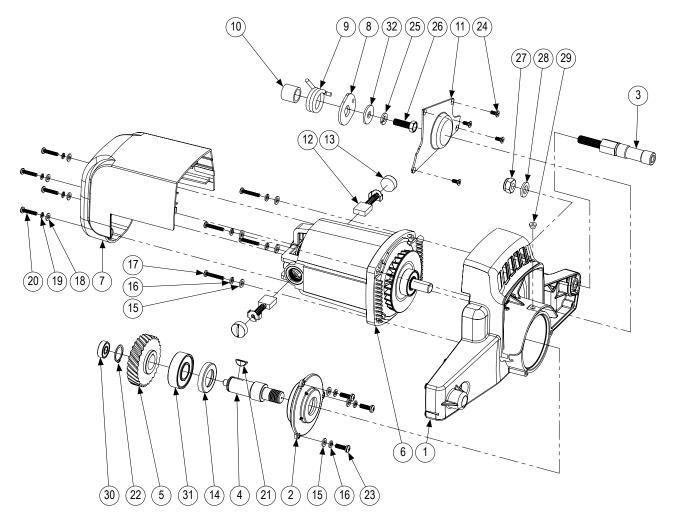
xi. REPLACEMENT PARTS LIST

Pos	Art. No.	Description	
1	10985786	EOSM-420150	RAIL PLATFORM ASSEMBLY
2	10985678	EOSM-420002	TABLE ASSEMBLY
3	10985787	EOSM-420151	VERTICAL ARM (110V/50HZ)
	10985788	EOSM-420152	VERTICAL ARM (230V/50HZ)
4	10985789	EOSM-420153	CUTTING HEAD (110V/50HZ)
	10985790	EOSM-420154	CUTTING HEAD (230V/50HZ)
5	10985791	EOSM-420155	BLADE GUARD ASSEMBLY
6	10985679	EOSM-420006	DIA 5/8" OUTER FLANGE
7			250mm Cont. general purpose blade
8	10985680	EOSM-420007	D30 X 120L HANDLE
9	10985681	EOSM-420008	SPRING
10	10985682	EOSM-420009	SLIP COLLAR
11	10985683	EOSM-420010	INTERLOCK WASHER
12	10985792	EOSM-420156	WATER PUMP (110V/50HZ)
	10985793	EOSM-420157	WATER PUMP (230V/50HZ)
13	10985684	EOSM-420012	M6X1.0X25L HEAD HEX BOLT

Pos	Art. No.	Description	
14	10985685	EOSM-420013	M10 NARROW WASHER
15	10985686	EOSM-420014	MALE M10 X 1.5 X 25L KNOB
16	10985687	EOSM-420015	M8 X 1.25 ACORN NUT
17	10985688	EOSM-420016	M8 NARROW WASHER
18	10985689	EOSM-420017	M8X1.25X35L CROSS SCREW
19	10985912	EOSM-PSV00004	5/8" - 11 HEX NUT
20	10985806	EOSM-420170	DIA 1" INNER FLANGE
20	10987292	EOSM-420305	DIA 1" INNER FLANGE 1/ -1.5
20	10987293	EOSM-420306	DIA 1" INNER FLANGE 2/ -1
20	10987294	EOSM-420307	DIA 1" INNER FLANGE 3/ -0.5
20	10985806	EOSM-420305	DIA 1" INNER FLANGE 4/ 0
20	10987295	EOSM-420308	DIA 1" INNER FLANGE 5/ 0.5
20	10987296	EOSM-420309	DIA 1" INNER FLANGE 6/ 1
20	10987297	EOSM-420310	DIA 1" INNER FLANGE 7/ 1.5

MAIN ASSEMBLY

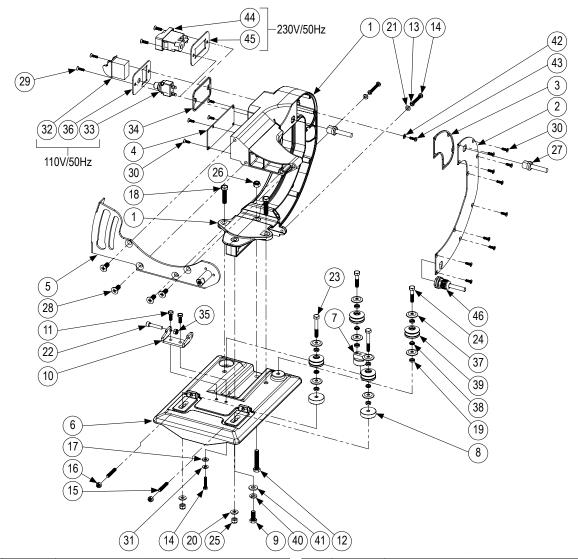
CUTTING HEAD ASSEMBLY



Pos	Art. No.	Description	
1	10985690	EOSM-420027	CUTTING HEAD
2	10985691	EOSM-420028	GEAR CAP
3	10985692	EOSM-420029	BLADE GUARD SHAFT
4	10985693	EOSM-420030	BLADE SHAFT
5	10985694	EOSM-420031	HELICAL GEAR
6	10985794	EOSM-420158	BRUSH MOTOR (110V/50HZ)
	10985795	EOSM-420159	BRUSH MOTOR (230V/50HZ)
7	10985695	EOSM-420033	FAN COVER
8	10985696	EOSM-420034	SPRING TENSION PLATE
9	10985697	EOSM-420035	TORSIONAL SPRING
10	10985698	EOSM-420036	SPRING SPACER
11	10985699	EOSM-420037	SPRING HOUSING COVER
12	10985700	EOSM-420038	17MM X 7MM CARBON BRUSH
	10985796	EOSM-420160	CARBON BRUSH (230V/50HZ)
13	10985701	EOSM-420039	CARBON BRUSH CAP
14	10985702	EOSM-420040	D40 D24 OIL SEAL
15	10985703	EOSM-420041	M5 NARROW WASHER

Pos	Art. No.	Description	
16	10985704	EOSM-420042	M5 SPRING WASHER
17	10985705	EOSM-420043	M5X0.8X25L CROSS SCREW
18	10985706	EOSM-420044	M4 NARROW WASHER
19	10985707	EOSM-420045	M4 SPRING WASHER
20	10985708	EOSM-420046	M4X0.7X20L CROSS SCREW
21	10985709	EOSM-420047	5MM X 16MM WOODRUFF KEY
22	10985710	EOSM-420048	M20 EXTERNAL C-CLIP
23	10985711	EOSM-420049	M5X0.8X15L CROSS SCREW
24	10985712	EOSM-420050	M4X0.7X10L CROSS SCREW
25	10985713	EOSM-420051	M8 SPRING WASHER
26	10985714	EOSM-420052	M8 X 1.25 X 20L HEX BOLT
27	10985715	EOSM-420053	M10 X 1.5 NUT
28	10985685	EOSM-420013	M10 NARROW WASHER
29	10985716	EOSM-420054	D6 CIRCULAR RUBBER STOP
30	10985717	EOSM-420055	D22 D8 608 RADIAL BEARING
31	10985718	EOSM-420056	D47 D20 RADIAL BEARING
32	10985719	EOSM-420057	M8 REGULAR WASHER

VERTICAL ARM ASSEMBLY



Pos	Art. No.	Description		Pos	Art. No.	Description	
1	10985797	EOSM-420161	POST	24	10985735	EOSM-420077	1/4"-20X1-1/4"X3/4" BOLT
2	10985798	EOSM-420162	POST ELECTR. ACCESS PLATE	25	10985736	EOSM-420078	1/4" - 20 NYLON NUT
3	10985720	EOSM-420060	RUBBER GASKET	26	10985737	EOSM-420079	M8 X 1.25 NYLON NUT
4	10985799	EOSM-420163	PLATE	27	10985738	EOSM-420080	DIA 8MM CABLE GLAND
5	10985721	EOSM-420062	CUTTING HEAD BRACKET	28	10985739	EOSM-420081	M8X1.25X20L CROSS SCREW
6	10985800	EOSM-420164	POST BASE	29	10985740	EOSM-420082	M5X0.8X16L CROSS SCREW
7	10985722	EOSM-420064	ROLLER ADJUSTMENT MOUNT	30	10985741	EOSM-420083	M4X0.7X13L CROSS SCREW
8	10985723	EOSM-420065	ROLLER MOUNT	31	10985742	EOSM-420084	M6 SPRING WASHER
9	10985714	EOSM-420052	M8 X 1.25 X 20L HEX BOLT	32	10985743	EOSM-420085	20A 125V/12A 250V SWITCH
10	10985724	EOSM-420066	WIRE ANCHOR BRACKET	33	10985744	EOSM-420086	15A CIRCUIT BREAKER
11	10985725	EOSM-420067	M6 X 1.0 X 15L HEX BOLT	34	10985745	EOSM-420087	POWER SWITCH GASKET
12	10985726	EOSM-420068	M8 X 1.25 X 45L HEX BOLT	35	10985746	EOSM-420088	M6 X 1.0 NYLON NUT
13	10985704	EOSM-420042	M5 SPRING WASHER	36	10985747	EOSM-420130	POWER SWITCH PLATE
14	10985711	EOSM-420049	M5X0.8X15L CROSS SCREW	37	10985916	EOSM-V31005-MA	WATER SHIELD
15	10985727	EOSM-420069	1/4"-20X1/2" FLAT SCREW	38	10985915	EOSM-V31004-MA	BYPASS SPACER
16	10985728	EOSM-420070	1/4" - 20 NUT	39	10985748	EOSM-420090	TYPE 5 GUIDE ROLLER
17	10985729	EOSM-420071	M6 NARROW WASHER	40	10985713	EOSM-420051	M8 SPRING WASHER
18	10985730	EOSM-420072	M8 X 1.25 X 35L HEX BOLT	41	10985688	EOSM-420016	M8 NARROW WASHER
19	10985731	EOSM-420073	LOWER ROLLER SPACER	42	10985706	EOSM-420044	M4 NARROW WASHER
20	10985732	EOSM-420074	1/4" NARROW WASHER	43	10985749	EOSM-420091	M4 X 0.7 X 8L CROSS SCREW
21	10985703	EOSM-420041	M5 NARROW WASHER	44	10985801	EOSM-420165	12A 220V-250V EL. SWITCH
22	10985733	EOSM-420075	WIRE TENSION BOLT	45	10985802	EOSM-420166	POWER SWITCH PLATE
23	10985734	EOSM-420076	1/4"-20X2"X3/4" CAP BOLT	46	10985803	EOSM-420167	DIA 7MM CABLE GLAND

TABLE ASSEMBLY

Pos

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Art. No.

10985750

10985751

10985917

10985918

10985752

10985746

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10985753

10985916

10985915

10985754

10985731

10985755

10985756

10985924

10985728

10985742

10985757

10985923

Description

EOSM-420092

EOSM-420093

EOSM-420094

EOSM-420088

EOSM-420071

EOSM-420095

EOSM-420096

EOSM-420073

EOSM-420097

EOSM-420098

EOSM-V3816

EOSM-420070

EOSM-420084

EOSM-420099

EOSM-V3815

EOSM-V31005-MA

EOSM-V31004-MA

1/4"-20X1.5"L HEX BOLT

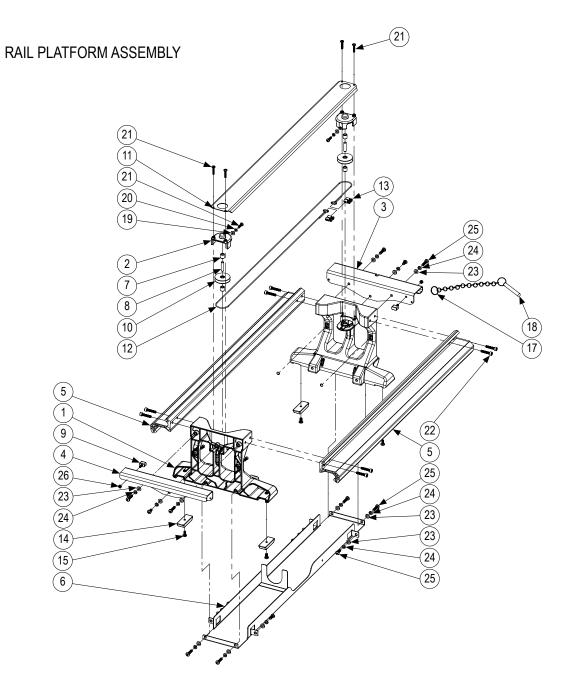
EOSM-V31014-MA

EOSM-V31015-MA

		2
	1	I)
MAIN TABLE		\leq
WIRE ANCHOR PLATE		ソ
ROLLER MOUNTING PLATE		1)
NUT PLATE, TABLE		2
WIRE BOLT ANCHOR		
M6 X 1.0 NYLON NUT		
M6 NARROW WASHER		
UPPER ROLLER SPACER		
WATER SHIELD		
BYPASS SPACER		
ROLLER		
LOWER ROLLER SPACER		
M6 WIDE WASHER	(14)	
1/4"-20X1-1/4"X3/4" BOLT		
1/4"-20X1-1/4" HEAD SCREW		
1/4" - 20 NUT		
M6 SPRING WASHER		
M6 X 1.0 X 14L HEX BOLT		

BLADE GUARD ASSEMBLY

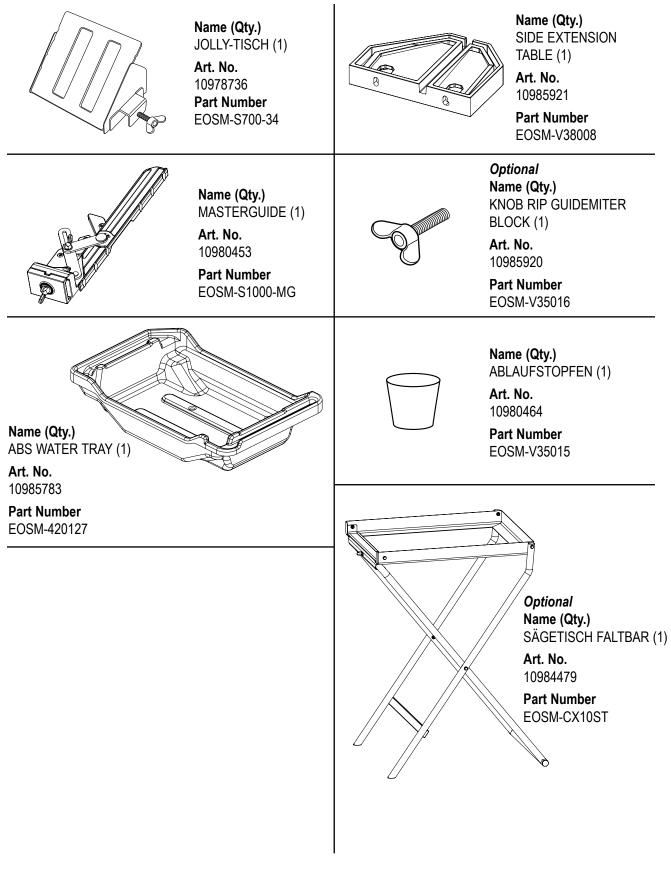
Pos	Art. No.	Description	Description	
1	10985804	EOSM-420168	TYROLIT 250MM BLADE GUARD	
2	10985758	EOSM-420101	SPLASH GUARD	
3	10985729	EOSM-420071	M6 NARROW WASHER	
4	10985759	EOSM-420102	M6 X 1.0 X 10L HEX BOLT	
5	10985708	EOSM-420046	M4X0.7X20L CROSS SCREW	
6	10985760	EOSM-420103	12CM PIPE	
7	10985761	EOSM-420104	120CM PIPE	
8	10985762	EOSM-420105	39CM PIPE	
9	10985763	EOSM-420106	D8MM Y-SHAPE CONNECTORS	
10	10985706	EOSM-420044	M4 NARROW WASHER	



Pos	Art. No.	Description	
1	10985805	EOSM-420169	RAIL PLATFORM
2	10985764	EOSM-420108	PULLEY MOUNT AND CAP
3	10985765	EOSM-420109	FRONT PLATFORM ANCHOR
4	10985766	EOSM-420110	REAR PLATFORM ANCHOR
5	10985767	EOSM-420111	RAIL
6	10985768	EOSM-420112	SKID PLATE
7	10985769	EOSM-420113	SHAFT SPACER
8	10985770	EOSM-420114	SHAFT
9	10985771	EOSM-420115	RUBBER BUMPER
10	10985772	EOSM-420116	WIRE PULLEY ASSEMBLY
11	10985773	EOSM-420117	WIRE SHIELD
12	10985774	EOSM-420118	D2 STAINLESS STEEL WIRE
13	10985775	EOSM-420119	SCREW DRIVEN WIRE CLAMP

Pos	Art. No.	Description	
14	10985776	EOSM-420120	RUBBER FEET
15	10985777	EOSM-420121	M5X0.8X10L CROSS SCREW
16	10985778	EOSM-420122	CHAIN
17	10985779	EOSM-420123	D21 RING
18	10985780	EOSM-420124	D8 X 45L QUICKRELEASE PIN
19	10985706	EOSM-420044	M4 NARROW WASHER
20	10985707	EOSM-420045	M4 SPRING WASHER
21	10985781	EOSM-420125	M4X0.7X10L CROSS SCREW
22	10985922	EOSM-V3808	1/4"-20X5/8"L HEX BOLT
23	10985703	EOSM-420041	M5 NARROW WASHER
24	10985704	EOSM-420042	M5 SPRING WASHER
25	10985777	EOSM-420121	M5X0.8X10L CROSS SCREW
26	10985782	EOSM-420126	M4 X 0.7 NUT

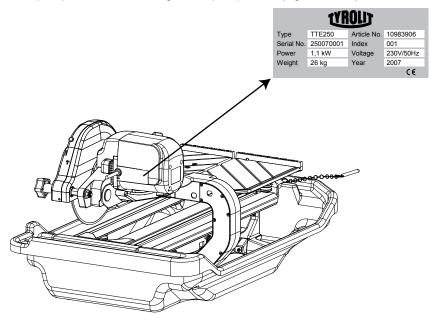
xii. ACCESSORIES



xiii. HOW TO ORDER PARTS

Please have the following information ready before ordering spare parts:

- Machine type according to nameplate (e.g. TTE250)
- Machine serial number according to nameplate (e.g. 250070001)
- Machine index according to nameplate (e.g. 001)
- Spare part number according to the spare parts list (e.g. 12345678)



To avoid incorrect deliveries you should check the order details above for correctness and completeness prior to shipment. You should ensure that the delivery address is given in full.

For orders, questions and information please contact your responsible branch office below:

TYROLIT Hydrostress AG

Witzbergstrasse 18 CH-8330 Pfäffikon Switzerland Tel. 0041 (0)44 952 18 18 Fax 0041 (0)44 952 18 00 www.tyrolit.com

Disclaimer: TYROLIT Hydrostress AG reserves the right to make changes or improvements on its products without incurring an additional obligation including any obligation to make corresponding changes or improvements to products previously manufactured or sold. TYROLIT reserves the right to discontinue products at any time without notice.

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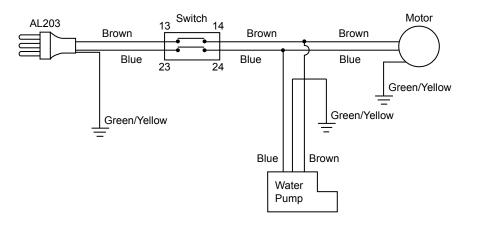
xiv. ELECTRICAL MOTOR SPECIFICATION

	TTE250	
Power	1.1 kW	
Volts*	110 V	230V
Amps	13 amps	7.5 amps
Motor RPM	22,000 rpm	
Cycle	50 Hz	
Phase	1	
Class	F	
Blade Shaft	3,420 rpm	

* The motor is designed to operate on either 110V or 230V mains, but not both. Refer to the name plate located behind the motor for power requirements specific to your motor.

Recommendations:

- Before connecting the saw to a power source, ensure that the voltages match.
- It is recommended that a **15 amp circuit** be used while operating this saw if equipped with a 110V motor. If the saw is equipped with a 230V motor, a **10 amp circuit** should be used instead. This will prevent possible power interruption or loss.
- Always plug saw as close as possible to the power source while operating. This will allow you to receive optimum electricity.



WARNING:

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 below for proper size.

	LENGTH OF CORD		
AWG GAUGE	1.1 kW 110V	1.1 kW 230V	
No. 12	7 m	30 m	
No. 10	15 m	45 m	
No. 8	22 m	76 m	
No. 6	-	-	

TTE250

xv. TROUBLESHOOTING

WARNING! For your safety and the safety of others, turn the power switch off and always remove the plug from power source before troubleshooting. Repairs performed by unauthorized personnel could cause serious hazard. We recommend that service to this tool be performed by a qualified service technician with original equipment replacement parts.

EXCESSIVE NOISE. Lack of lubrication to the gearbox and or possible bearing wear. Have tool serviced.

BLADE WILL NOT CUT. Check for worn out diamond edge. Be sure that the arrow on the blade is rotating the same direction as the motor arbor and/or arrow on the blade guard. Make sure the blade is suitable for the material to be cut. If blade has been used to cut a material that is hard, it may have become dull, dress the blade by cutting a light weight abrasive building block to expose fresh diamonds. Blade dressing stones are available from your local TYROLIT distributor.

MOTOR WILL NOT START. Check power supply. If the water pump turns on when the power switch is in the "on" position, but the motor does not, have the motor serviced.

MOTOR WILL NOT STOP. The contacts in the switch may have become arched together in the on position, have it serviced.

MOTOR SHUTS OFF DURING OPERATION. Check to see that the circuit you are using is not overloaded with lights or other equipment. The fuse or circuit breaker may not have sufficient capacity, use 20-amp power. If you are using an extension cord check the extension cord table to be sure it is heavy enough to carry the current this product will draw. See *Page 21* for electric cord reference.

EXCESSIVE VIBRATION Check to see that the blade is mounted properly according to safe operating practices section. Blade may be out of balance, try a different blade. Arbor shaft bearings possibly worn, have tool serviced.

NOT CUTTING SQUARE. Check the main table and carriage adjustment as well as the blade alignment procedure located in the care and maintenance section.

MAIN TABLE DOES NOT MOVE FREELY. Inspect the guide rails and rollers for build up of tile chips or dry slurry deposits. Clean and check guide roll or adjustments, according to the procedure in the care and maintenance section.

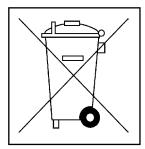
NO WATER FLOW TO BLADE. Check the water feed tube for kinks or obstructions. Check the inlet screen to ensure it is not clogged. Remove the pump inlet and turn the impeller to ensure it is not damaged or jammed. Clean the impeller if necessary and apply a drop of light oil to the shaft - be sure the impeller spins freely.

POOR MACHINE PERFORMANCE WITH LITTLE POWER. Check cord/extension cable for appropriate length and gage. Check power network for sufficient power and circuit breaker capacity.

CENTER HOLE IN BLADE OVERSIZE OR WORN. Saw blade has slipped on shaft while running. Check shaft for damage and replace blade.



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.



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.

DANGER

Failure to head 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 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.



CE Declaration of conformity

Description:

Type: Article number: Article number: Serial number: Index Year of construction: TTE250P 10983906 (230V) 10984480 (110V) 25000001 - 2500_ _ _ 001 2009

Tile saw TTE250P



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 2002/95/EC Restriction of the use of certain hazardor substances in electrical and electronic equipment	,	2006/42/CE 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

M. Freel

Mario Facchin Head of Research and Development

