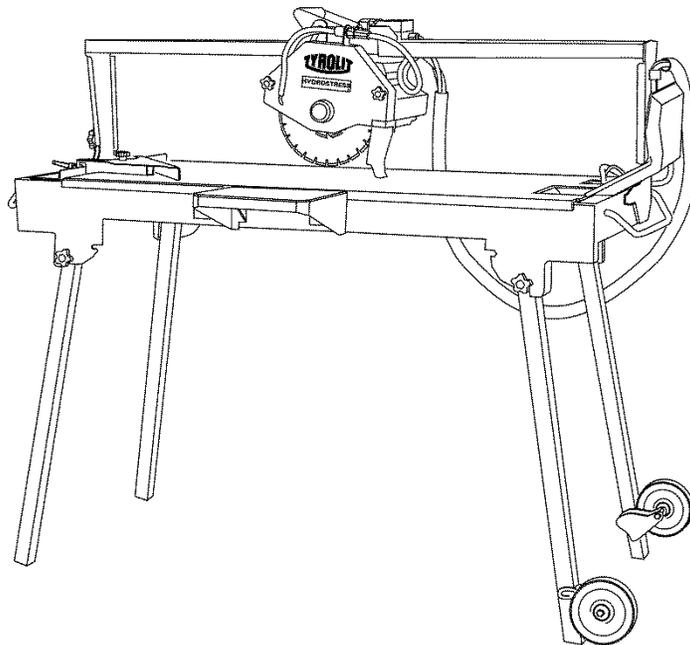


Operating Manual

Spare Parts List

Tile Saw TRE250 ★★★

Index/ Indice 000



TYROLIT Hydrostress AG

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Congratulations!

With a Hydrostress unit from TYROLIT, you have chosen a tried and tested piece of equipment which has been designed and built to leading technical standards. Only genuine TYROLIT Hydrostress replacement parts can guarantee quality and interchangeability. If maintenance work is neglected or carried out inexpertly we will be unable to honour our warranty obligations. Any repair work must be carried out by trained personnel only.

Our aftersales service is available to help ensure that your TYROLIT Hydrostress units remain in perfect working order.

We hope that working with your TYROLIT unit will be a satisfying and fault-free experience.

TYROLIT Hydrostress

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Konformitätserklärung
Declaration of conformity
Déclaration de conformité
Dichiarazione di conformità
Declaración de conformidad



**Wir bestätigen in alleiniger Verantwortung,
dass diese Maschine den folgenden
Richtlinien und Normen entspricht**

We declare under our sole responsibility that this
product complies with the following directives
and standards

Nous déclarons, sous notre seule responsabilité,
que ce produit répond aux directives et normes
suivantes

Dichiariamo sotto la nostra completa
responsabilità che il presente prodotto è
conforme alle seguenti direttive e norme

Declaramos bajo propia responsabilidad que
este producto cumple con las siguientes
directivas y normas

Angewandte Richtlinie(n)

Directive(s) applied
Directive(s) appliquée(s)
Direttive applicate
Directiva(s) aplicadas

2006/42/EG	17.05.2006
2004/108/EG	15.12.2004
2002/96/EG	27.01.2003

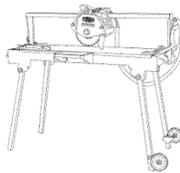
Angewandte Normen

Applied standards
Normes appliquées
Norme applicate
Normas aplicadas

EN 12418/A1:2009

Fliesensäge
Wet tile saw
Scie à carreaux
Taglierina per piastrelle
Cortadora de baldosas en húmedo

TRE250P



TYROLIT Hydrostress AG
Witzbergstrasse 18
CH-8330 Pfäffikon
Switzerland

Pfäffikon, 22.12.2014

Pascal Schmid
Leiter Entwicklung



DIN EN ISO 9001:2000

TYROLIT

Originaldokument

**TRE250P
OPERATING INSTRUCTIONS
AND SPARE PARTS LIST
CONTENT**

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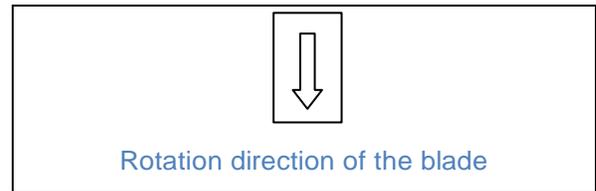
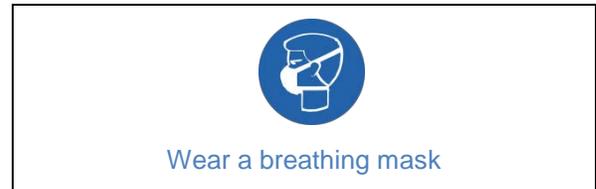
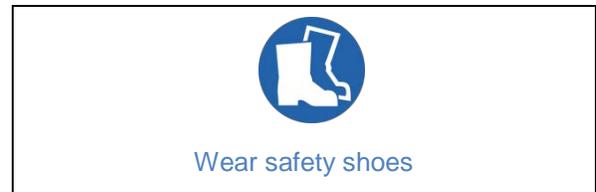
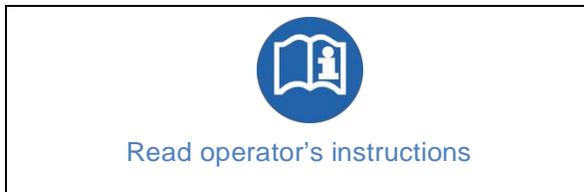
1 Basic Safety Instructions

The TRE250P is exclusively designed for the cutting of tiles and abrasive materials (different types of tiles) with TYROLIT diamond disks mainly on construction sites.

Uses other than the manufacturer's instructions shall be considered as contravening the regulations. The manufacturer shall not be held responsible for any resulting damage. Any risk shall be borne entirely by the user. Observing the operating instructions and compliance with inspection and servicing requirements shall also be considered as included under use in accordance with the regulations.

1.1 Symbols

Important warnings and pieces of advice are indicated on the machine using symbols. The following symbols are used on the machine:



1.2 Machine plate

Important data can be found on the following plate located on the machine:

The image shows a grey machine plate with the TYROLIT logo and 'HYDROSTRESS' text. It contains technical specifications in a table format. At the bottom, it reads 'TYROLIT Hydrostress AG | CH-8330 Pfäffikon ZH'. There are also CE and safety symbols.

Type	TRE250P	Article No.	
Serial No.		Index	000
Power	1.3 kW	Voltage	230V / 50Hz
Weight	79 kg	Year	2015
RPM	2800 min ⁻¹	Max. Blade Ø	250 mm
Bore Ø	25.4 mm		

1.3 Safety instructions for particular operating phases

Before commencing work

- Before commencing work, make yourself familiar with the working environment at the place of use. The working environment includes: obstacles in the area of work and manoeuvre, the firmness of the floor, necessary protection at the site relating to public thoroughfares and the availability of help in the event of accidents.
- Site the machine on an even, firm and stable base!
- Check for correct mounting of the blade regularly.
- Immediately remove damaged or badly worn blades, as they endanger the operator whilst rotating.
- The material to be cut must be held securely in place on the table to allow no unexpected movement during cutting operation.
- Always cut with the blade guard in position.
- Only fit TYROLIT diamond blades with continuous rim to the machine! The use of other tools can damage the machine!
- Read the blades' specifications carefully to choose the correct tool for your application.
- Attention is drawn to the use of BS2092 safety goggles in conformity with specified Processes No.8 of the Protection of Eyes Regulation 1974, Regulation 2(2) Part 1.

Electrical powered machine

- Always turn off the machine and separate it from the main source of electricity before any work on the machine is done.
- Make all electrical connections securely to eliminate contact of live wires with spray water or dampness
- When the machine is used with water, it is IMPERATIVE that you earth the machine properly. Let a qualified electrician check in case of doubt.
- Press the red button on the switch to stop the machine in case of emergency.
- In the event of the machine breaking down or stopping for no apparent reason, switch off the main electricity supply. Only a qualified electrician is allowed to investigate the trouble and remedy the fault.

2 Machine description

Any modification, which could lead to a change in the original characteristics of the machine, may be done only by TYROLIT who shall confirm that the machine is still in conformity with the safety regulations.

2.1 Short description

The TRE250P Saw is designed for durability and high performance for onsite wet cutting operations of a wide range of tiles and masonry products.

As with all other TYROLIT products, the operator will immediately appreciate the attention given to detail and quality of materials used in construction. The machine and its component parts are assembled to high standards assuring long life and minimum maintenance.

2.2 Purpose of use

The machine is designed for wet cutting of a large range of building and refractory materials, or tiles. **It is not designed for cutting wood or metals.**

2.3 Layout / Montage supplies



2.4 Technical Data

Electric motor	1.3 kW	
Voltage	230V / 50Hz	115V / 60Hz
Protection rating	IP54	
Max. blade diameter	250 mm	
Bore	25.4 mm	
Rotation speed of the blade	2800 min ⁻¹	3450 min ⁻¹
Flange diameter	90 mm	
Cutting depth mm	60 mm	
Cutting length mm	940 mm (1050 mm)*	
Table dimension (LxW)	1110 x 490 mm	
Machine dimensions (LxWxH)	1375 x 740 x 1275 mm	
Weights	79 kg	
Sound pressure level	73 dB (A) as ISO EN 11201	
Sound energy level	87 dB (A) as ISO EN 3744	

* Plunge cut

3 Assembly and commissioning

The machine is delivered fully equipped. It is ready for operation after assembly the diamond blade and after connection to the appropriate power supply.

3.1 Assembly of the legs

Lift up one side of the saw, slide in the legs (with no wheels) to the front side of the saw. Lock the wing nut to tighten the legs in place. Lift up the other side of the saw and slide in the legs with the wheels. Lock the wing nut to fasten the legs in place.

3.2 Tool assembly

Only TYROLIT blades with a maximum diameter of 250 mm can be used with the TRE250P.

All tools used must be selected with regard to their maximum permitted cutting speed for the machine's maximum permitted rotation speed.

Before mounting a new blade into the machine, switch off the machine and isolate it from the main source of electricity.

To assemble a new blade, follow these steps:

- Loosen on the two nuts holding the outer cover of the blade guard, and remove it.
- Loosen the hexagonal nut (left threaded) on the blade shaft with the 30mm wrench, which holds the removable outer flange.
- Remove the outer flange.
- Clean the flanges and blade shaft and inspect for wear.
- **ATTENTION:** Mount the blade on the arbor ensuring that direction of rotation is correct (check with the arrow on the blade guard). Wrong direction of rotation blunts the blade quickly.
- Replace outer blade flange.
- Tighten hexagonal nut.
- Retighten the two nut screws maintaining the outer cover the blade shaft.

The blade bore must correspond exactly to the diameter of the blade shaft. Cracked or damaged bore is dangerous for the operator and for the machine.

3.3 Electrical connections

Check that,

- The voltage/phase supply corresponds to the information indicated on the motor plate.
- Available power supply must have ground connection in conformity with safety regulations.
- The connecting cables should have at least a 2.5mm²-section per phase.

3.4 Water cooling system

- Fill the water pan with clean water to 1cm of the edge of the water tray.
- Ensure that water is delivered adequately to both sides of the blade, as insufficient water supply may result in premature failure of the diamond blade.
- The water pump must never run without water. Always make sure that there is enough water in the pan and refill if necessary.
- In case of frost, empty the water cooling system from its water.

3.5 Starting the machine

Connect the machine to the electrical supply. You can start it by pressing the switch on I. To stop the machine, press switch on 0. 0 is also the emergency switch.

4 Transport and storing

4.1 Securing for transport

Before transporting the machine, always remove the blade and empty the water pan. Secure the cutting head on the rail by using the knob.

4.2 Long period of inactivity

If the machine is not going to be used for a long period, please take the following measures:

- Completely clean the machine
- Empty the water system
- Take the water pump out of the water tray, and clean it thoroughly.

The storage site must be clean, dry and at a constant temperature.

5 Operating the machine

5.1 Site of work

5.1.1 Siting the machine

- Remove from the site anything, which might hinder the working procedure!
- Make sure the site is sufficiently well lit!
- Observe manufacturer's conditions for connecting to power supplies!
- Place electric cables in such a way that damage by the device is excluded!
- Make sure you have a continual adequate view of the working area so you can intervene in the working process at any time!
- Keep other staff out of the area, so you can work securely.

5.1.2 Space required for operation and maintenance

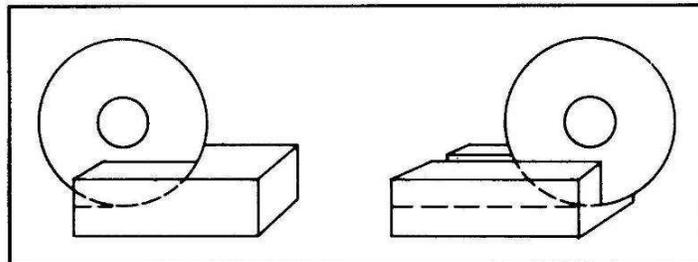
Leave 2 m in front of the machine and 1,5 m around it for usage and maintenance of the TRE250P.

5.2 Cutting methods

To use the machine correctly, you must face it with one hand on the cutting head, and one on the material to be cut to maintain it against the material stops. Always keep your hands away from the moving blade.

5.2.1 Full depth or fixed cutting

In full depth or fixed cutting, the cutting head is locked in a fixed depth pushed into the material as shown.



- Lower the cutting head to the desired cutting depth (in “through cutting”, lower cutting head until blade periphery reaches max. 3mm under the surface of the table) by means of the handle on the blade guard
- Fix position by tightening the clamping device
- Put material on table
- Push the cutting head slowly and without undue pressure towards the material and cut the material as shown on the picture.

NOTE: While recommended, it is not absolutely necessary to lock the cutting head into a given depth position when jam cutting. The desired cutting depth can be maintained by holding firmly the depth feed handle on the cutting head. If the full depth of cut requires excessive pressure (on very dense material e.g.) make 2 or 3 shallow cuts.

5.3 Cutting with an angle

You can cut from 0° to 45° by tilting the head. To this purpose:

- Loosen the two knobs maintaining the head to tilt the head to the desired angle.
- Retighten the two knobs.

5.4 General advice for the cutting

- Only materials with max. dimensions 1110x490x60mm and max. weight 10kg can be cut with the machine.
- Before commencing work make sure tools are firmly seated!
- Select the right tools as recommended by the manufacturer depending on the material to be worked, the working procedure (dry or wet cut) to be carried out and the required efficiency.
- Make sure the water pan contains enough water.
- Set the guide-a-cut to the desired width of cut, and to the desired angle using the two engraved measurements to align it correctly.

6 Maintenance and servicing

To ensure a long-term quality from the cutting with the TRE250P, please follow the maintenance plan below:

		Begin of the day	During the changing of tool	End of the day or more often if required	After a fault	After a damage
Whole machine	Visual control (general aspect, watertightness)					
	Clean					
Flange and blade fixing devices	Clean					
Water pan	Clean					
Water pump	Clean					
Water nozzles and hoses	Clean					
Water pump filter	Clean					
Motor housing	Clean					
Reachable nuts and screws	Tighten up					

Maintenance of the machine

Always perform the maintenance of the machine with the machine isolated from the electrical supply.

Lubrication

The TRE250P uses life-lubricated bearings. Therefore, you don't need to lubricate the machine at all.

Cleaning of the machine

Your machine will last longer if you clean it thoroughly after each day of work, especially water pump, water pan, motor and blade flange.

7 Faults: causes and cures

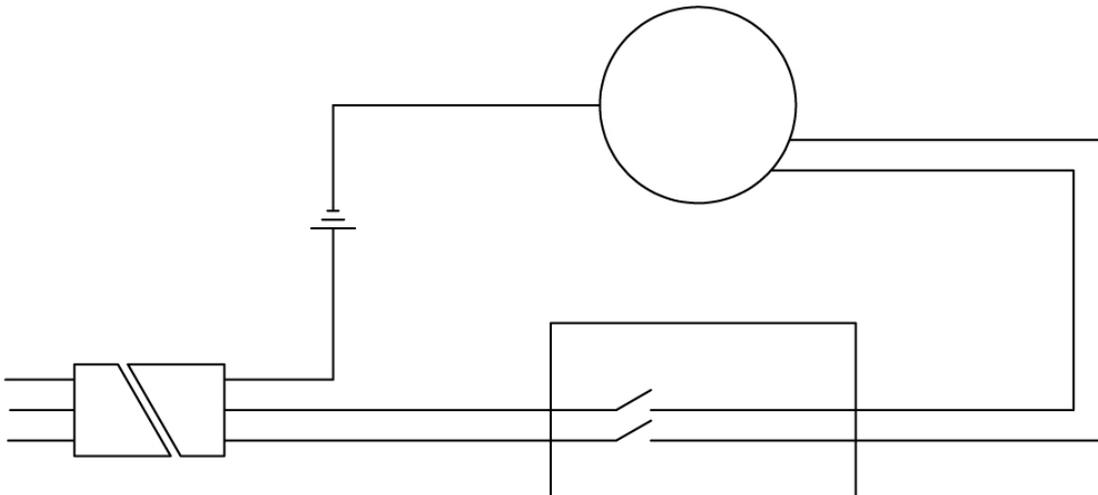
7.1 *Fault-finding procedures*

Should any fault occur during the use of the machine, turn it off, and isolate it from the electrical supply. Any works dealing with the electrical system or supply of the machine can only be carried out by a qualified electrician.

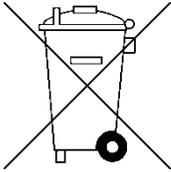
7.2 *Trouble-shooting guide*

Trouble	Possible source	Resolution
Motor is not running	No electricity	Check the electrical supply (fuse for example)
	Connection cable section too small	Change connection cable
	Defective connection cable	Change connection cable
	Defective switch	CAUTION : can only be solved by qualified electrician
	Defective motor	Change motor or contact motor manufacturer
No water on the blade	Not enough water in the pan	Refill the water pan
	Water supply system is blocked up	Clean water supply system
	Water pump is not working	Change the pump

7.3 *Circuit diagram*



8. 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.



GEFAHR

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.