TRIAC AT in swimming pond construction

The all-purpose hand tool

Leister hand tools for welding and shrinking plastic are used worldwide in a wide range of areas. Whether on the roof, in civil engineering, in plastic fabrication, for billboards and industrial fabrics, in flooring or for vehicle repairs: Leister is the measure of all things in each case. This outstanding reputation is obligatory. Reason enough for the innovative Swiss tradition company to bring a completely new hand tool into the market, the TRIAC AT (Advanced Technology). It fulfills all requirements that the user expects from their welding tool. The new TRIAC AT combines refined technology and modern design with simple handling – all in an ergonomic design with lots of grip.

Successful field test

The TRIAC AT is suitable for construction sites and can be used in swimming pool and pond construction. We accompanied an experienced user for an entire day. Afterwards, we wanted to know what he thought of the new TRIAC AT. Thomas Durrer is an independent plastic welder with decades of experience in roofing applications. His specialties today include complex detailed work in swimming pool and pond construction. So he is exactly the right man to test the TRIAC AT. Thomas Durrer had never worked with a TRIAC AT before. However, he soon got the hang of the “e-Drive” operating unit and was very enthusiastic once the work was done. The new operating unit consists of a knob located at the back of the tool and a large display. All functions and welding parameters are highly visible on this display. It can be operated intuitively. Well-organized operating instructions are helpful for uncertainty when getting started - although our professional did not need them at all.

Five-stage air volume control

As with the previous model, TRIAC PID, the temperature also is adjusted for the TRIAC AT. For this purpose, the thermal probe located in front of the heating element signals the precise temperature status. The set nominal value stabilizes automatically and voltage fluctuations are balanced out. The air volume can now be readjusted to five stages, independent of the air temperature. This novelty, thanks to the welding process, can be individually adapted to the conditions on site. This innovation is especially useful for delicate details or for materials that are difficult to work with. Thomas Durrer worked at stage five when

The handy TRIAC AT proves itself even in corners and when using materials that are difficult to work with.

welding the 1.3 mm (0.05 inch) thick PP material. In other words, he worked at full capacity and at an air temperature of 290° C (554 F). However, the TRIAC AT delivers a maximum temperature of 700° C (1292° F).

Important acknowledgment

Leister is particularly proud that not only the users are satisfied with the new TRIAC AT. – Also the international, high-caliber judging panel of the "red dot design award" found the hand tool so great that they gave it the coveted title "red dot – honorable mention." The importance of this award is even greater to those who understand that the "red dot award" is one of the biggest and most renowned design competitions in the world today. Around 4500 people registered for it in 2012! Only products with excellent detailed features are honored. The TRIAC AT has more than fulfilled the expectations of the tool developers at Leister. But above all, it succeeds in continuous daily use on construction sites as well as on indoor projects.

Optimum price-performance ratio

A practical storage case is included with purchase. That means more than enough space for the tool and accessories. Of course, all Leister nozzles with a diameter of 31.5 mm (1.24 inch) fit on the TRIAC AT. Despite its various new features, it is considerably cheaper than its forerunner. So the price-performance ratio is nonrecurring. No doubt, with the TRIAC AT, Leister is continuing to set new standards for its internationally outstanding hot air tools in a professional environment. Thomas Durrer was so pleased with the new Leister tool that he even wanted to keep it.

reddot design award
honourable mention 2012

Great honor for the TRIAC AT: It received the "red dot design award" from an international judging panel.

Intuitive entry of temperature and air volume. Thomas Durrer did not need any operating instructions for it.

The handy TRIAC AT allows welding in hard-to-reach places like here on the edge of the pool.

Brief biographical profile of Thomas Durrer

Independent plastics manufacturer, Kerns, Switzerland. Worked for Sarnafil for many years and carried out trainings worldwide. Today, he is a specialist in the construction of swimming pools and ponds. His principle: "Preparation means everything on the construction site. That applies equally to both the material and the tool!"

Seven questions to Thomas Durrer

1. *What do you think of the TRIAC AT?*
   A very ergonomic tool. The display is well positioned and big. You always have the parameters in view.

2. *How does the TRIAC AT work?*
   Optimally. A flexible tool, even ideal for detailed work in corners. Thanks to the ergonomic two-component handle, the TRIAC AT does not slip in your hand, the grip is perfect. The TRIAC AT is easy on the hand and simple to control.

3. *What features do you like most about the TRIAC AT?*
   The adjustable air volume and the simple cleaning of both air filters (pulling the cover off, blowing out the dirt, and putting the cover back on again).

4. *What does the adjustable air volume do for you?*
   Very beneficial for detailed work with thin materials.

5. *What are the main differences between the TRIAC PID and the TRIAC AT?*
   The TRIAC AT is more handy than its forerunner. The air volume control is the best improvement of all.

6. *What do you think of the new operating instructions?*
   I found all the necessary functions instantly and did not need the operating instructions.

7. *Would you recommend the TRIAC AT?*
   Yes, straight away. The TRIAC AT is the right tool for all users. It has the most modern technology and is very easy to hold. Also, it has the correct price-performance ratio.

Plastic welder:	Thomas Durrer, Kerns, Switzerland
Construction:	Private swimming pond, Switzerland
Material:	PP (5313 Sika)
Welding temperature:	280° – 290° C (536° – 554° F)
Air volume:	Stage 5, i.e. full capacity
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