

Welding waterstops in civil engineering

The new TRIAC DRIVE AT: Simple, reliable and economical

Leister is an international leader in the development, production and sale of tools for welding plastic. The core business comprises hand tools, welding machines and hand extruders for trade, as well as hot-air systems for industrial applications. With the new TRIAC DRIVE AT, Leister has now brought out the perfect solution for welding waterstops easily, reliably and economically in civil engineering.

A clever system

The insulating system plays a crucial role in protecting concrete structures reliably against penetrating groundwater or seepage water. A proven method involves the use of waterstops. This enables the building structure to be protected to a much greater degree. They are welded onto the previously installed geomembranes in definite sectors. The waterstops prevent the water from penetrating further. The following applies here: The more sectors are planned and hence joint tapes used, the smaller the area to be repaired in the case of penetrating water. A separating geotextile material is then placed on the sealing system. The actual concrete construction can now be commenced on the interior. A damaged area can be localized with injection channels leading to the sealed-off sectors after completing the building structure. An injected two-component gel then displaces the penetrating moisture in the relevant sector, thereby making the system watertight again.



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New TRIAC DRIVE with AT hot-air unit

The semiautomatic welding machine TRIAC DRIVE has long been proven when it comes to welding waterstops. This allows welding up to three times faster than if using only a hand tool. The convenient and lightweight tool comprises a drive motor and a hot-air unit. The latter can also be used as an autonomous hand welding tool. The TRIAC DRIVE has been newly equipped with the TRIAC AT as hot-air unit. Here the air temperature reaches its level automatically, thereby compensating voltage fluctuations. The air volume can also be modified independently of the temperature. A clear display shows all relevant data.

Special versions for waterstops

It is above all in the Middle East where systems waterstops are integrated. Leister has responded to the huge demand in this region and developed two special versions of the new TRIAC DRIVE AT for waterstops. In contrast to the standard versions, these have steel rollers instead of the softer silicone rollers. This allows the required higher pressure to be applied when guiding the tool. As the distance from the edge of the tape to the first web varies depending on the waterstop provider (Sika, BASF, MAPEI etc.), two different versions are available correspondingly, one for 40 mm and one for 12 mm weld seam width. As an accessory, Leister provides a pressure roller and welding nozzle for both weld seam widths separately. This means both versions can be converted to the other seam width with very little effort.

Outstanding concept

The new TRIAC DRIVE AT from Leister not only gives the user a reliable, versatile and flexible tool. – It also makes overlap welding much more economical than if done manually, no matter whether welding horizontally or vertically.

