



PLASTIC WELDING

Plastic Fabrication



Extrusion and hot-air hand welders

The right choice for the specialist



Dear Leister customers

The selection of machines and equipment greatly influences the quality and success of your work. That is why we offer solutions that you can always count on and with which you are guaranteed to be able generate added value.

Our goal is to exceed your expectations. All of our devices and machines are designed and produced in Switzerland, because for us, quality and innovation are the highest priority. We have more than 70 years of experience in the fields of plastic welding and industrial process heat applications, and are constantly expanding this. Through direct contact with you in your workshop, at the construction site and through social media, we collect the necessary input that we then incorporate into the next generation of devices. Our engineers and designers combine your ideas with the latest technology to create unique products that meet your requirements. Here, we place particular importance on functionality, ergonomics and durability. That is why you can count on a reliable welder in all locations and environments.

We maintain a global and close-knit service and distribution network which enables us to serve you quickly and easily. Our expert distributors and own associations ensure that you can access our services across the globe.

In the following pages, see for yourself how our extensive product range will be able to support you in your work. You will also find a great deal of useful information on plastic welding in the brochure. Motivated by our principle, "Leister. We know how," we are eager to share our experience with you in order to make your work easier.

I hope you enjoy reading our brochure!

Reto Britschgi

Product Manager Plastic Fabrication



TRIAC ST: Design meets experience

The new TRIAC ST from Leister is primarily used for welding and plastic fabrication. During its development, a deliberate choice was made to do without extra technical features. Instead it is distinguished by comfort, being reliable versatile, robust and user friendly, like its predecessor the TRIAC S. A prominent feature here is the two-component handle, which is not only attractive, but also gives the user perfect grip. The low weight of less than 1 kg/2.18 lbs ensures a perfect weight balance.

Product advantage

1



Ergonomic handling:

The 2-component handle and perfect tool balance ensure ideal grip and optimum working even under the toughest conditions.

Perfect weight:

Weighing less than 1 kg, the TRIAC ST is even lighter than its predecessor.

2



Always keeps a cool head:

There is an actively cooled protective tube for greater work safety.

3



Welding power:

Thanks to the optimized, highly robust motor, TRIAC ST guarantees high welding power.

2



4



Reliability:

A new temperature manager and a high dust resistance provide the heating elements with a long service life.

5



Swiss thoroughness:

The air filters, located on either side, can easily be removed and cleaned. This ensures optimum air flow and maximum power output.

Optimum protection:

The filters offer active protection against moisture and dust.

TRIAC AT: Robust and intelligent.

The TRIAC AT is an intelligent hot-air hand tool for welding and shrinking plastics that is suitable for on-site use. It is designed for the needs of even the most demanding professional. Every tool undergoes stringent quality checks prior to leaving the factory in Switzerland. This high-quality hot-air hand tool is equipped for all situations. Its universal areas of application are virtually unlimited. The TRIAC AT will continue to prove its merit in any weather condition and is just as effective outside as it is indoors – all during continuous operation.

Hot-air hand tool

TRIAC ST



Hot-air hand tool

TRIAC AT



- Suitable for the work site
- Functional design: two-component handle grip and optimum center of gravity ensure good ergonomics
- Quick clean air filters
- Automatic carbon stop and heating element protection provide automatic protective measures

- Suitable for the work site
- Closed loop controlled temperature
- Open loop controlled air volume
- Intelligent «e-Drive» operating unit
- Ergonomic handling
- Modern design

Technical data

Voltage	V~	120 / 230
Frequency	Hz	50 / 60
Power	W	1600 / 1600
Temperature	°C	40 – 700
Air volume (20°C)	l/min	240 (500 at max. temp)
Dynamic pressure	Pa	3000
Ø Nozzle holder	mm	31.5
Emission	dB(A)	67
Size (L × Ø)	mm	338 × 90, handle Ø 56
Weight	kg	<1 (without power cord)
Conformity mark	CE	
Approval mark	S I	
Protection class II	□	

Article No.:

141.308	TRIAC ST, 120 V / 1600 W for push-fit nozzles with UK-plug
141.309	TRIAC ST, 230 V / 1600 W for push-fit nozzles with UK-plug
141.311	TRIAC ST, 230 V / 1600 W for push-fit nozzles with CH plug
141.227	TRIAC ST, 230 V / 1600 W for push-fit nozzles with Euro plug
144.013	TRIAC ST, 230 V / 1600 W for screw-on nozzles with Euro plug
153.891	TRIAC ST, 220 V / 1600 W for push-fit nozzles with KR-plug

Technical data

Voltage	V~	120 / 230
Frequency	Hz	50 / 60
Power	W	1600 / 1600
Temperature	°C	40 – 620
Air volume (20°C)	l/min	160 – 240 (500 at max. temp)
Dynamic pressure	Pa	1600 – 3000
Ø Nozzle holder	mm	31.5
Emission	dB(A)	67
Size (L × Ø)	mm	338 × 90, handle Ø 56
Weight	kg	1 (without power cord)
Conformity mark	CE	
Approval mark	S I	
Protection class II	□	

Article No.:

141.319	TRIAC AT, 120 V / 1600 W, with UK-plug
141.320	TRIAC AT, 230 V / 1600 W, with UK-plug
141.314	TRIAC AT, 230 V / 1600 W, with Euro-plug
141.322	TRIAC AT, 230 V / 1600 W, with CH-plug
142.737	TRIAC AT, 230 V / 1600 W for screw-on nozzles with Euro plug
148.005	TRIAC AT, 220 V / 1600 W, for push-fit nozzles with KR-plug




Quick welding



Draw welding with combination nozzle

Accessories TRIAC ST / TRIAC AT

	100.303 Ø 5 mm, tubular nozzle, push-fit		105.622 Ø 5 mm, tubular nozzle, screw-on
	105.575 Ø 5 × 100 mm, tubular nozzle, push-fit		106.988 Tacking nozzle, screw-on
	106.982 Ø 5 × 150 mm, extension nozzle, push-fit		126.552 Ø 4 mm drawing nozzle, screw-on for fluoroplastics
	105.576 tubular nozzle Ø 5 mm, 90° curved		113.666 Ø 3 mm drawing nozzle with tacking tip, screw-on
	106.996 Tacking nozzle, push-fit on Ø 5 mm tubular nozzle		113.399 Ø 4 mm drawing nozzle with tacking tip, screw-on
	105.431 3 mm speed weld nozzle, with small air-slide, push-fit on Ø 5 mm tubular nozzle		113.876 Ø 3 mm drawing nozzle without tacking tip, screw-on
	105.432 4 mm speed weld nozzle, with small air-slide, push-fit on Ø 5 mm tubular nozzle		113.874 Ø 4 mm drawing nozzle without tacking tip, screw-on
	105.433 5 mm speed weld nozzle, with small air-slide, push-fit on Ø 5 mm tubular nozzle		113.670 Drawing nozzle triangular-shaped with tacking tip, screw-on 5.7 mm, profile A
	107.139 4.5 × 12 mm speed weld nozzle for fillet weld, push-fit on Ø 5 mm tubular nozzle		113.877 Without tacking tip, screw-on 5.7 mm, profile A
	107.137 8 mm speed weld nozzle for tape welding, push-fit on Ø 5 mm tubular nozzle		106.986 Without tacking tip, screw-on 7 mm, profile B
	Speed weld nozzle, push-fit on Ø 5 mm tubular nozzle		106.987 Without tacking tip 7 × 5.5 mm
	106.992 5.7 mm, profile A		143.833 Nozzle adapter for screw-on nozzles
	106.993 7 mm, profile B		143.332 Protection tube for screw-on nozzles (for TRIAC ST until april 2017)
	106.989 Ø 3 mm		156.092 Protection tube for screw-on nozzles (for TRIAC ST from mai 2017)
	106.990 Ø 4 mm		144.134 Protection tube for screw-on nozzles (for TRIAC AT)
	106.991 Ø 5 mm		141.375 Connection adapter M14 for Ø 21 mm nozzle with plug
	156.470 Speed weld nozzle bend Ø 5 mm, push-fit on Ø 5 mm tubular nozzle		142.717 Heating element for TRIAC ST / TRIAC AT, 230 V / 1550 W TRIAC ST / TRIAC AT, 120 V / 1550 W
			142.718



«Leister – the synonym for quality,
innovation and technology. »»

«With strong technical and application competence
Leister provides standard products and custom
engineered solutions to all major industries.»»

«Recognized as the world-wide leader in
developing and producing quality products.

«The Leister Group, its employees and distribution
network are committed to be strong and reliable
partners, giving you the opportunity to move your
business forward. »»

«Serving all corners of the globe since 1949,
with representation in over 100 countries we are
local world wide and close to our customers. »»